

Industrial Plugs & Receptacles

Decontactors, Connectors & Boxes



CE Catalog 2011

**International
Configurations
& Ratings**



Contents

Industrial power supply and motor connections

DSN – Compact and watertight DECONTACTOR™ - Sizes from 20 A to 63 A

DS – DECONTACTOR™ for industry – Sizes from 30 A to 250 A

DN – Metal DECONTACTOR™ – Sizes from 30 A to 150 A

PNC – Compact plug and receptacle – Up to 16 A

PN – Compact plug and receptacle – Up to 30 A

Decontactors & connectors for specific motor connections

- Star-delta – Sizes from 16 A to 150 A
- DB – Disconnectable motor switches – Up to 45 kW

Control & signal

- PN 7C, DN 9C, PN 12C, DN 20C, DSN 24C, DSN 37C - **from 5 to 37 contacts**

High current

- **PF** – High current plugs and receptacles – Up to 600 A / 8 aux.
- **DS4** – High current connectors – Up to 400 A / 2 aux.
- **CS1000** – Single pole power connector – Up to 400 A
- **SP** – Single pole power connector – Up to 700 A + pilot contacts
- **CS** – Single pole and welding connectors – Sizes from 75 A to 500 A
- **CCH** – Battery charger connectors – Sizes from 75 A to 200 A

High temperature

- **PNHT/DSHT** – Plugs and receptacles type connectors
- **DN7C3HT/DN7C6HT** – Connectors for motor connections
- **PN7CHT/DN9CHT** – Multicontact connectors

Self-ejecting systems

- Mechanical systems for self-ejecting plugs / self-ejecting connector receptacles
- RETTBOX® and RETTBOX® Air electrical systems

Ex equipment for hazardous areas

- **DXN** compact Decontactors
- **DX** metal Decontactors
- Multicontact - **from 12 to 37 contacts**
- **SPeX** Single pole power connectors
- **BXBS** Receptacle boxes
- **BXBJ** Junction boxes
- **CRIC** terminals
- **B2X** distribution boxes

What you should know about standards...

Meltric products comply with IEC/EN 60309-1 and 60309-4 within the ranges of current, voltage and frequency applicable, they also comply with IEC/EN 60947-3 for breaking under load. Compliance to standards is certified by LCIE (France) and VDE (Germany) laboratories.

They are also UL 1682, UL 2682 and UL 98-508 listed.

IEC/EN 60309-1 standard Ed. 4.1

*Plugs, Receptacles and Connectors for industrial purposes
Part 1: General requirements*

This standard applies to plugs, receptacles and connectors with a rated operating voltage up to < 1000 V, d.c. or a.c. and 500 Hz a.c. and a rated current up to 250 A, primarily intended for industrial use, either indoors or outdoors. Its general requirements apply to all kind of devices whatever the contact technology used. However this standard does not impose any specific design and leaves the manufacturers with room for technical improvement such as Meltric's butt contact technology.

Nominal current	Number of operations	
	Electrical endurance Making and breaking	Overload conditions Making and breaking
10 to 29 A	5 000 @ $I_n \times U_n \cos \varphi 0,6$	50 @ $1,25 I_n \times 1,1 U_n \cos \varphi 0,6$
30 to 59 A	1 000 @ $I_n \times U_n \cos \varphi 0,6$	50 @ $1,25 I_n \times 1,1 U_n \cos \varphi 0,6$
60 to 99 A	1 000 @ $I_n \times U_n \cos \varphi 0,6$	20 @ $1,25 I_n \times 1,1 U_n \cos \varphi 0,6$
100 to 199 A	250 @ $I_n \times U_n \cos \varphi 0,7$	20 @ $1,25 I_n \times 1,1 U_n \cos \varphi 0,7$
200 to 250 A	125 @ $I_n \times U_n \cos \varphi 0,8$	10 @ $1,25 I_n \times 1,1 U_n \cos \varphi 0,8$
Temperature rise	Terminals and contacts < 50 K	
Short-circuit withstand test	10 kA @ U_n with gG type fuse rated at I_n	
Dielectric strength test	$2 \times U_n + 1\,000\text{ V} / 1\text{ minute}$	

Performance tests and cutoff imposed by the IEC / EN 60309-1

IEC/EN 60309-4 Ed. 1.0 standard

*Plugs, Receptacles and Connectors for industrial purposes
Part 4: Switched Receptacles and Connectors with or without interlock*

This standard covers accessories with a switching device, including those with **integral switching**.

In order to comply with the requirements of these two standards and bring in a real improvement in terms of safety and performance, Meltric developed a contact technology that is different from, but superior to the one described in IEC/EN 60309-2, which is not compulsory.

IEC / EN 60947-3 standard Ed 3.0

Low-voltage switchgear and controlgear

Part 3: Switches, Disconnectors, Switch-disconnectors and Fuse-combination units.

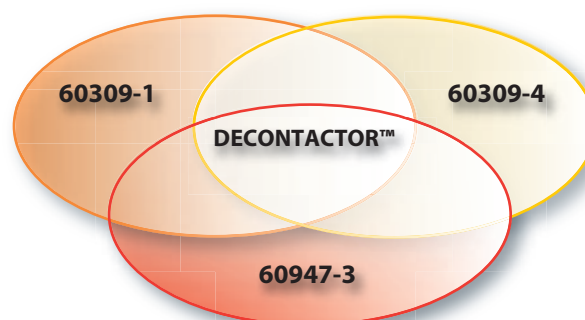
In general, Meltric Decontactors are classified AC-22 or AC-23 in terms of load-breaking performance according to this standard.

The DB Decontactors are classified AC-3 thanks to an even higher load-breaking performance.

IEC/EN 60309-2 standard Ed. 4.1

*Plugs, Receptacles and Connectors for industrial purposes
Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories*

This standard applies to plugs and receptacles and connectors using pins and contact tubes with standardized contact configurations up to 125 A. This standard prescribes the same technology for industrial use as in domestic AC power plugs and receptacles. It is not compulsory because its only role is to standardize the pin and sleeve technology.



AND INTERNATIONAL STANDARD

Marechal technology and compliance with the European Low Voltage Directive

In Europe, **CE** marking is a guarantee that the devices do not compromise the safety of persons and property when used as intended. This guarantee is based on tests and a quality assurance system.

Maintaining this guarantee is not possible when a Meltric or **Marechal** product is variegated with a component of an unrecognized source.

A Meltric or **Marechal** product should be used with additional products and original Meltric or **Marechal** recognized parts.

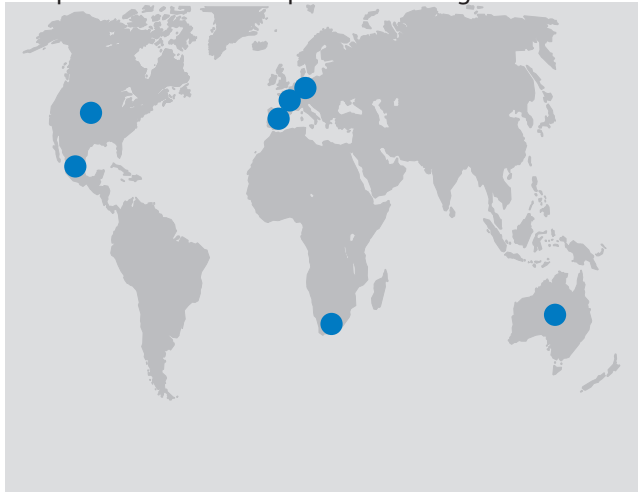
Failure to observe this requirement invalidates the **CE** mark on **Marechal** products as well as Meltric's warranty and liability.

The BECMA association

Manufacturers of electrical connectors using **Marechal** technology met within the BECMA association: the Butt contact Electrical Connectors Manufacturers' Association - www.becma.ch.

BECMA ensures that all products are manufactured in accordance with a common technical documentation, ie in strict accordance with manufacturing procedures covered by a system of control of ISO 9000.

This provision ensures the compatibility of hybrid products, consisting of two components from different manufacturers that use **Marechal** technology and their compliance with the European Low Voltage Directive.



Meltric Corporation is a member of BECMA which includes independent international companies (●) that make interchangeable butt-contact plugs and receptacles throughout the world.

Many references throughout the world

Meltric products are designed to meet the most stringent requirement, here is a sample of references:

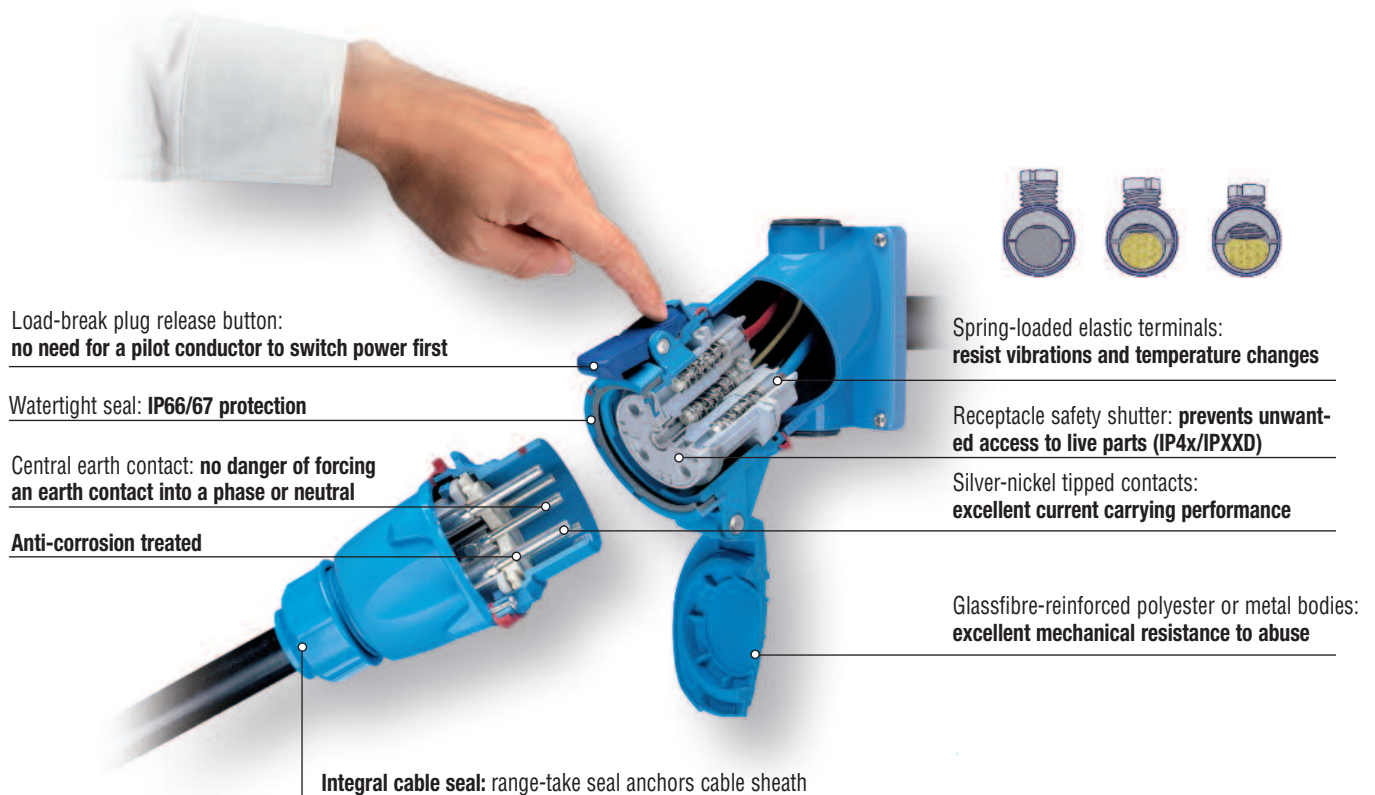
Aéroports de Paris (aviation)
Airbus (aircraft manufacturing)
Air France (aviation)
Air Liquide (industrial gases)
Alcan (metal working)
Arcelor-Mittal (metal working)
Armée française (military)
Belgian army (military)
Cadbury (food)
Coca-Cola (food)
Disneyland Paris (amusement park)
EDF (power generation)
Exxon Mobil (oil refinery)
Fire-brigades (all French fire-brigades and also German and Italian)
France Telecom (telecommunication)
Ford Motor (automotive)
General Motors (automotive)
Kraft Food (food)
Lafarge (building material)
L'Oréal (chemical)
MacDonald's (food chain)
Motorola (electronics)
Marinas on the Mediterranean sea (French and Italian)
Petrobras (oil exploration)
RATP (Paris subway)
SNCF (French railway)
Shell (oil extraction)
SIAAP (waste water treatment for Paris region)
Solétanche (civil engineering)
Spie Fondation (civil engineering)
Tipiak (food)
Universal Studios (film studios)

And also more than 700 km of road and rail tunnels (Mont Blanc, Channel tunnel...)

All the design, production and sales processes at Meltric Corporation are ISO 9000-2000 certified.



INDUSTRIAL POWER SUPPLY AND MOTOR CONNECTIONS



Connect with confidence & disconnect with safety

Thanks to its integral load-break isolating switch mechanism, the Decontactor receptacle allows users to connect and disconnect electrical equipment safely up to 250 A: a release button cuts the power and de-energises the plug before it can be removed. Even in the event of a short-circuit, the Decontactor guarantees user safety and eliminates any electrocution hazard.

Automatic IP66/IP67 watertight seal

Our Deconnectors are automatically IP66/IP67 watertight (high pressure washing, temporary immersion) just by inserting the plug or by closing the receptacle lid when you remove the plug. There is no need to turn any sealing ring!

Robust and reliable

The Decontactor has silver-nickel butt contacts which guarantee superior electrical performance and environmentally sound (-40 °C to +60 °C) Its glass-fibre reinforced polyester or metal housings provide excellent resistance to shock (IK08 / IK09) UV and corrosion.

Spring-loaded elastic terminals

The Decontactor terminal has a design that compensates for strand settlement and copper yield. A constant force is

applied to the conductor by means of a screw and an elliptical deforming ring around a split terminal body.

Reduce installation costs

The Decontactor design reduces the number of receptacles required because Deconnectors are being dual-voltage: a 3pne (5 pin) configured receptacle will accept a 5 pin plug, 4 pin plug and 3 pin 230V a.c. plug.

Connect motors without risk of over-load

When a motor starts, the brief overload generated is many times greater than the nominal current. While this overload should not affect properly designed motors, it could be damaging to most connectors. Thanks to its silver-nickel butt-contact technology, the Decontactor withstands these high and repeated overloads without over-heating or change in its performance.

The Decontactor is thus ideally suited for motor connections, even for motors that have to start frequently.

... and reduce downtime

When Deconnectors are used in lieu of hard-wiring, a fitter can replace a motor safely and efficiently. A blocked submersible pump can be up and running in a matter of minutes instead of hours and with just one person. Operating costs are reduced as re-wiring on site is no longer necessary.

A 24 POSITION UNIQUE KEYING SYSTEM

Like all members of the BECMA association, Meltric Corporation complies with the common electric butt-contact plug and receptacle keying position chart :



Receptacle
(safety shutter open)

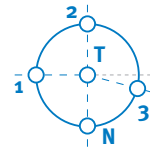


Plug

Voltage range covered	Frequency	Contact configuration	Keying position / Part no. (5 th & 6 th digit)
20-24 V	a.c. 50 Hz	All *	08
20-24 V	a.c. 60 Hz	All *	02
25-28 V	a.c. 50/ 60 Hz	All *	06
40-48 V	a.c. 50 Hz	All *	13
110-125 V	a.c. 60 Hz	1P+N+E	07
110-125 V 220-250 V	a.c. 60 Hz	2P+N+E, 3P+N+E	07
110-130 V	a.c. 50 Hz	1P+N+E	03
110-130 V 190-230 V	a.c. 50 Hz	2P+N+E, 3P+N+E	03
110-130 V	d.c.	2P+E	10
115-127 V	a.c. 200 Hz	1P+N+E	12
115-127 V 200-220 V	a.c. 200 Hz	2P+N+E, 3P+N+E	12
115-127 V	a.c. 400 Hz	1P+N+E	11
115-127 V 200-220 V	a.c. 400 Hz	2P+N+E, 3P+N+E	11
120-127 V	a.c. 60 Hz	1P+N+E	16
120-127 V 208-220 V	a.c. 60 Hz	2P+N+E, 3P+N+E	16
190-230 V	a.c. 50 Hz	2P+E, 3P+E	03
200-220 V	a.c. 200 Hz	2P+E, 3P+E	12
200-220 V	a.c. 400 Hz	2P+E, 3P+E	11
208-220 V	a.c. 60 Hz	2P+E, 3P+E	16
220-250 V	a.c. 50 Hz	1P+N+E	01
220-250 V 380-440 V	a.c. 50 Hz	2P+N+E, 3P+N+E	01
220-250 V	a.c. 60 Hz	2P+E, 3P+E	07
220-250 V	d.c.	2P+E	20
255-277 V	a.c. 60 Hz	1P+N+E	04
255-277 V 440-480 V	a.c. 60 Hz	2P+N+E, 3P+N+E	04
347 V	a.c. 60 Hz	1P+N+E	14
347 V 600 V	a.c. 60 Hz	2P+N+E, 3P+N+E	14
380-440 V 660-690 V	a.c. 50 Hz	2P+N+E, 3P+N+E	19
380-440 V	a.c. 50 Hz	2P+E, 3P+E	01
380-440 V	a.c. 50 Hz	1P+N+E	19
440-480 V	a.c. 60 Hz	2P+E, 3P+E	04
480-500 V	a.c. 50 Hz	2P+E, 3P+E	09
600 V	a.c. 60 Hz	2P+E, 3P+E	14
660-690 V	a.c. 50 Hz	2P+E, 3P+E	19
1000 V	a.c. 50 Hz	1P+N+E, 2P+E, 2P+N+E, 3P+E, 3P+N+E	22

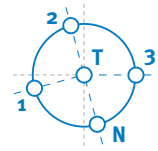
* All: a.c. = 1P+N, 2P, 2P+N, 3P, 3P+N, 1P+N+E, 2P+E, 2P+N+E, 3P+E, 3P+N+E
d.c. = 2P, 2P+E

The colors in the above table correspond to the international voltage standard. They appear on the ring and voltage sticker of the receptacle or inlet, for easy identification of the device frequency/voltage combination. There are 24 keying positions. Most have been assigned to a particular operating voltage (see table). Other are free, in order to address other voltages or fulfil specific needs.



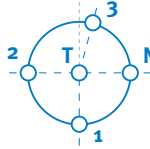
Position 01

220-250 V or 380-440 V 50 Hz



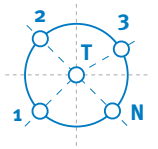
Position 02

20-24 V 60 Hz



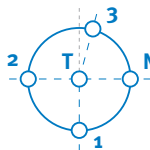
Position 03

110-130 V or 190-230 V 50 Hz



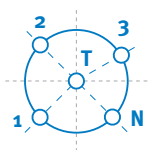
Position 04

255-277 V or 440-480 V 60 Hz



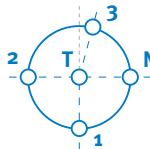
Position 06

25-28 V 50 Hz or d.c.



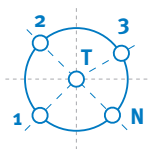
Position 07

110-125 V or 220-250 V 60 Hz



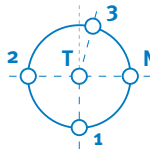
Position 08

20-24 V 50 Hz or d.c.



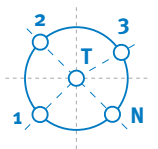
Position 09

480-500 V 50 Hz



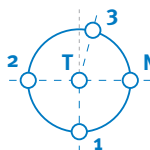
Position 10

110-130 V d.c.



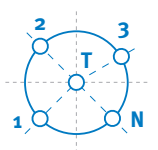
Position 11

115-127 V or 200-240 V 400 Hz



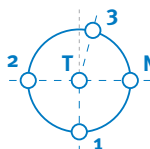
Position 12

115-127 V or 200-220 V 200 Hz



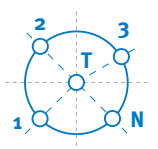
Position 13

40-48 V 50 Hz or d.c.



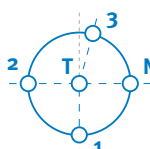
Position 14

347 V or 600 V 60 Hz



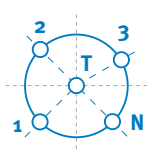
Position 16

120-127 V or 208-220 V 60 Hz



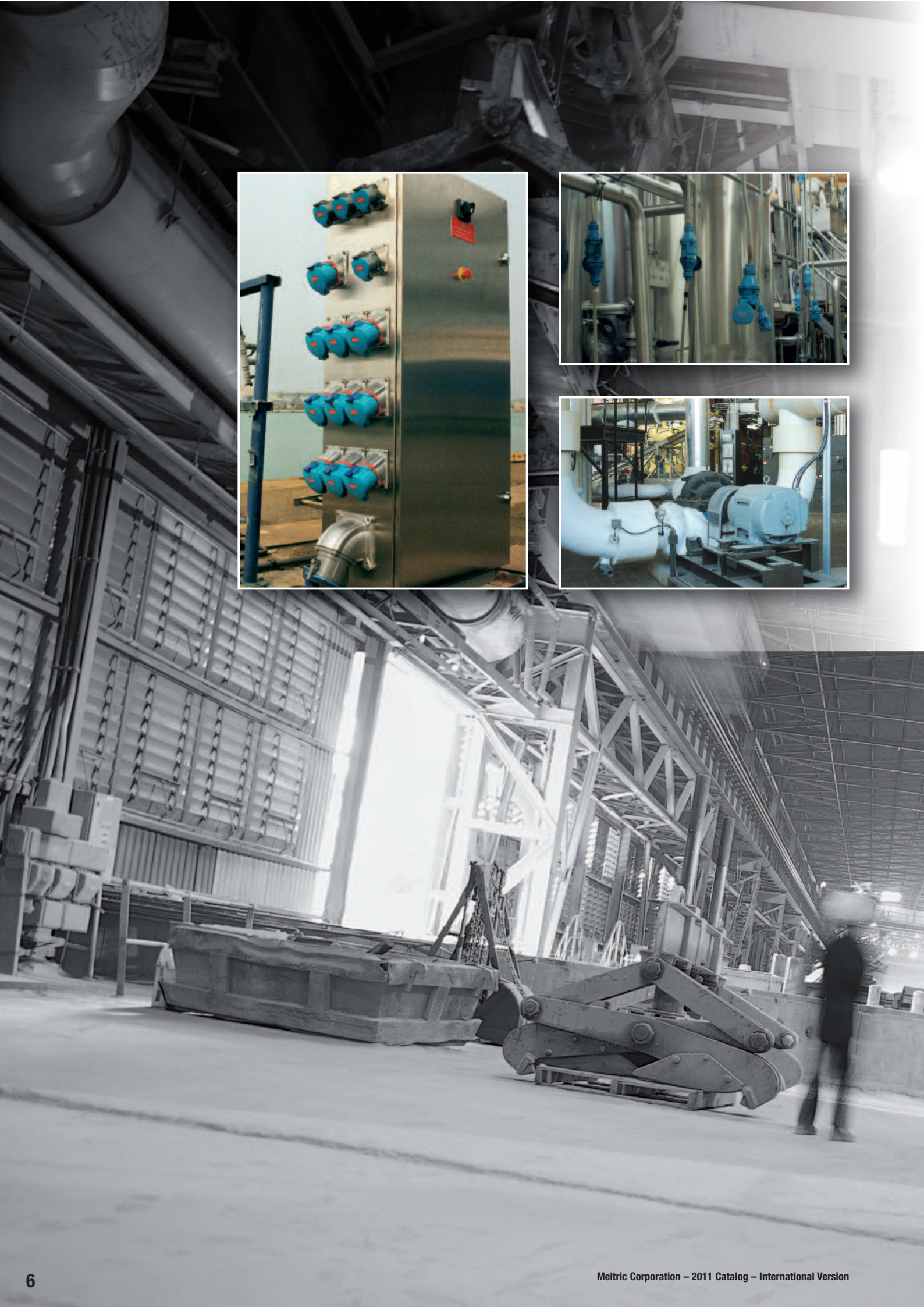
Position 19

380-440 V 50 Hz or
660-690 V 50 Hz or d.c.



Position 20

220-250 V d.c.



Industrial power supply and motor connections

DSN - Compact and watertight DECONTACTOR™

DS - DECONTACTOR™ for industry

DN - Metal DECONTACTOR™

PNC - PN - Compact plug and receptacle

Specific motor connections - Decontactors & connectors



DSN

20 A

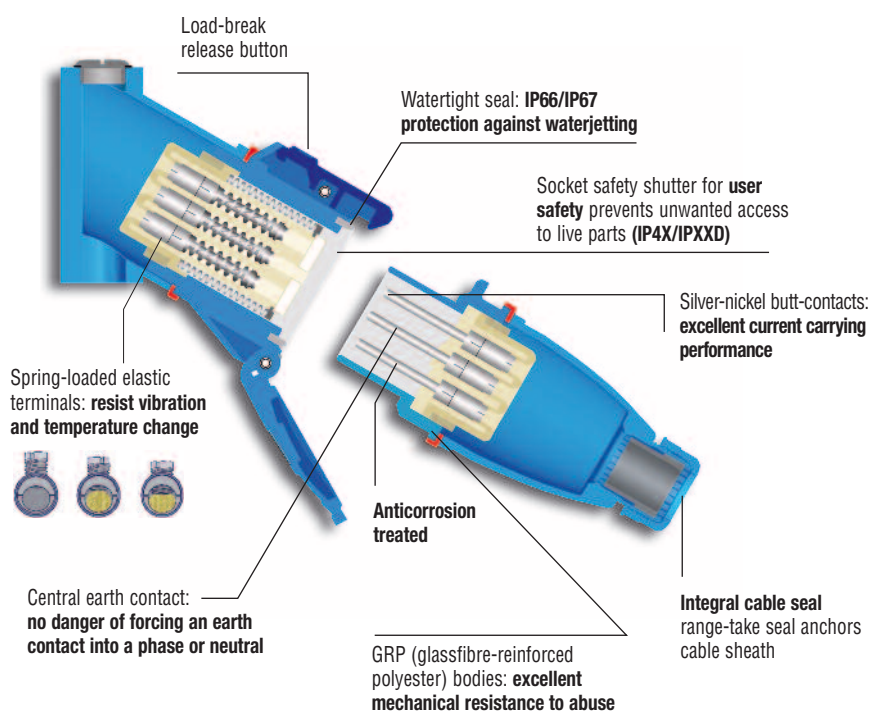
32 A

63 A

- Compact
- Standard IP66/IP67 seal
- Ideal connector for food and chemical industries, water treatment, marinas ...

With sizes from 20 to 63 A, DSN Deconnectors are highly compact: a 63 A plug is only 83 mm in diameter. Once connected, the plug and socket are automatically IP66/IP67, the Receptacle is also IP66/IP67 when the lid is closed.

Mechanical features



SPECIFICATION

IP66/IP67 Plug and Receptacle with integral switching device AC22/23, safety shutter (IP4X/IPXXD Receptacle), silver-nickel butt contacts with metal braid, comply with BECMA international standard.

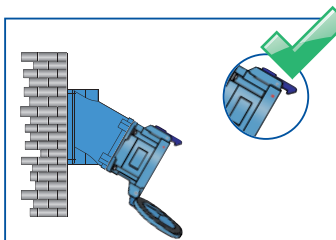
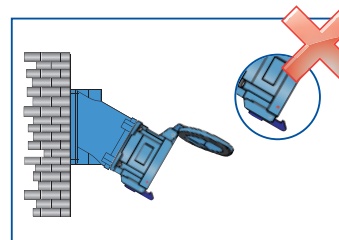
COMPACT & WATERTIGHT DECONTACTOR™



Resistance to chemicals



Rugged


Mounting hook up: **proper**

Mounting hook down: **improper**

Electrical feature

Plugs and receptacles with integral load-break switching capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

	DSN1	DSN3	DSN6
Rated current (In)	20 A	32 A	63 A
Maximum Voltage	500 V	690 V	1000 V
AC-22 switching capability	20 A / 500 V	32 A / 690 V	63 A / 690 V
AC-23 switching capability	20 A / 400 V	32 A / 400 V	63 A / 400 V
Auxiliary contacts (optional)	-	2	4
Keying positions (*)	24	24	24
Ambient temperature	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C
Short-circuit current Icc	10 kA	10 kA	10 kA

(*) To discriminate between different power supplies and applications

Regulatory features

DSN Decontactors comply with:

- IEC 60309-1 & IEC 60309-4 European and International standards (plugs and Receptacles for industrial purposes),
- The European Low Voltage Directive 2006/95/CE,
- The French NF C 15-100 standard,
- The French decree n°88-1056 dated 14th November 1988,
- The decrees relating to workers' protection in Belgium, Spain and Italy,
- The load-break capability for AC-22 and AC-23 categories described in CEI 60947-3.

Also certified by VERITAS LCIE, UL, AS, VDE and CSA (French, Us, Australian, German & Canadian) and by BUREAU VERITAS MARINE inspection laboratories.


BUREAU
VERITAS


LCIE

MARINE

UNDERWRITERS
LABORATORIES
INC.

STANDARDS
AUSTRALIA



Typical configuration

Wall mounted receptacle



Plug



Wall box poly 30°
61 1A 053



Receptacle
61 14 017



Handle poly straight
61 1A 013



Inlet
61 18 017

Plugs and receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	20 A
Maximum voltage	500 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK08
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	1 - 2,5 mm ²
Stranded wiring (min-max)	1,5 - 4 mm ²
Other wiring on request	
Keying positions	24

DSN1 Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	20 A / 500 V
Load-break capability according to EN 60947-3	
AC-22	20 A / 500 V
AC-23	20 A / 400 V
Short-circuit (withstand and close-on)	10 kA

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	61 14 08A
190 - 230 V	3P+E	61 14 033
220 - 250 V	1P+N+E	61 14 015
380 - 440 V	3P+E	61 14 013
380 - 440 V	3P+N+E	61 14 017
480 - 500 V	3P+E	61 14 093
480 - 500 V	3P+N+E	61 14 097

Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle:
A 5 pin 400 V 3pne socket will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	61 18 08A
190 - 230 V	3P+E	61 18 033
220 - 250 V	1P+N+E	61 18 015
380 - 440 V	3P+E	61 18 013
380 - 440 V	3P+N+E	61 18 017
480 - 500 V	3P+E	61 18 093
480 - 500 V	3P+N+E	61 18 097



Certificate N°
FR 60042266D

Boxes

Cable gland not included



Wall box
poly 30°



Wall box poly 70°
volume

Entry		
M20	61 1A 053	Not drilled and without cable gland Part no. 51 AA 058

Sleeves



Inclined
poly 30°



Inclined
poly 70°

	61 1A 027	51 AA 757
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Handles



Straight
poly



Straight
poly



Angled
poly

9 - 18 mm	61 1A 013		01 NA 313
5 - 21 mm		61 1A 413	



Straight poly
with poly cable gland



Straight poly without cable gland
with metric threaded entry

5 - 12 mm	61 1A 753	M20	61 1A 253 417
9 - 18 mm	61 1A 253 25P	M25	61 1A 253 418
14 - 25 mm	61 1A 253 32P	M32	61 1A 253 419

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18



Locking with shaft for
3 padlocks - Ø 4 mm
(padlocks not
supplied)

Socket no + 844



Stop button
Socket no + 453



IP67 inlet cap
61 1A 126

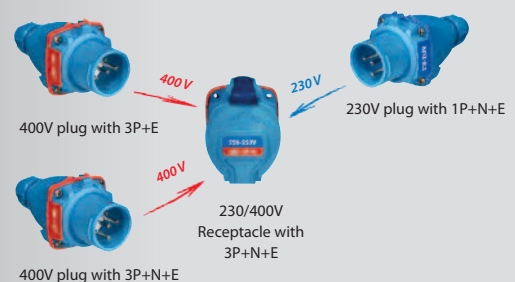
IP66/IP67 watertight

DSN Deconnectors are automatically IP66/IP67 watertight (waterjetting and temporary immersion) without any additional manipulation that could be forgotten. This is ideal for the food and drink industry.



Dual voltage Receptacle

Reduce your installation costs: A dual voltage 230/ 400V Receptacle accepts 3 different plugs and one industrial-domestic adapter.



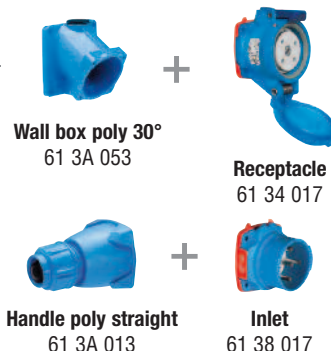


Typical configuration

Wall mounted socket



Plug



Plugs and receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	32 A
Maximum voltage	690 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK08
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	2,5 - 6 mm ²
Stranded wiring (min-max)	2,5 - 10 mm ²
Keying positions	24

DSN3 decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	32 A / 690 V
Load-break capability according to EN 60947-3	
AC-22	32 A / 690 V
AC-23	32 A / 400 V
Short-circuit (withstand and close-on)	10 kA

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	61 34 08A
190 - 230 V	3P+E	61 34 033
220 - 250 V	1P+N+E	61 34 015
380 - 440 V	3P+E	61 34 013
380 - 440 V	3P+N+E	61 34 017
660 - 690 V	3P+E	61 34 193
660 - 690 V	3P+N+E	61 34 197

Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle: : A 5 pin 400 V 3pne socket will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug

Please consult us for more options

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	61 38 08A
190 - 230 V	3P+E	61 38 033
220 - 250 V	1P+N+E	61 38 015
380 - 440 V	3P+E	61 38 013
380 - 440 V	3P+N+E	61 38 017
660 - 690 V	3P+E	61 38 193
660 - 690 V	3P+N+E	61 38 197



Receptacle with auxiliary contacts

With 2 auxiliary contacts (30 A / 500 V)	Recept no. + 972
--	------------------



Inlet with auxiliary contacts

With 2 auxiliary contacts (30 A / 500 V)	Inlet no. + 972
--	-----------------



Certificate N°
FR 60042266E

Boxes

Cable gland not included



Wall box
poly 30°



Wall box metal +
poly sleeve 30°



Wall box metal +
straight metal sleeve



Wall box poly 70°
volume

Entry

M20	61 3A 053	61 3A 653	69 3A 095
M25	61 3A 083	61 3A 653 418	69 3A 095 418
M32		61 3A 653 419	69 3A 095 419
M40		61 3A 653 420	69 3A 095 420

Not drilled and
without cable gland
Part no 51 BA 058

Sleeves



Inclined
poly 30°



Inclined
poly 70°



Straight
metal

61 3A 027

51 BA 757

69 3A 127

Handles



Straight
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

5-21mm	61 3A 013	5-12mm	61 3A 753	7-13mm	61 3A 963	M20	61 3A 253 417
		9-18mm	61 3A 253 25P	8-16mm	61 3A 953 25M	M25	61 3A 253 418
		14-25mm	61 3A 253 32P			M32	61 3A 253 419
		18-32mm	61 3A 253 40P			M40	61 3A 253 420

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Self-closing lid for inlet	31 1A 226



Locking with shaft for
3 padlocks - Ø 4 mm
(padlocks not
supplied)

Socket no + 844



Stop button
Socket no + 453

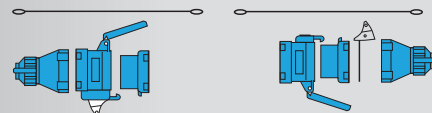


IP67 inlet cap
61 3A 126



Closing mechanism (finger
draw plates sold per unit)
61 3A 346

Self-ejecting



Self-ejecting systems prevent the rupturing of the electric circuit when a mobile device is removed before proper disconnection of the electrical supply. Meltric Corporation offers both mechanical and electrical ejecting systems for plug and coupler socket of all sizes.

For more detailed information, please see self-ejecting chapter of this catalogue.



Typical configuration

Wall mounted receptacle



Plug



Wall box poly 70°
51 CA 058



Receptacle
61 64 017



Handle poly straight
61 6A 013



Inlet
61 68 017

Plugs and receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	63 A
Maximum voltage	1000 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK08
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	6 - 16 mm ²
Stranded wiring (min-max)	10 - 25 mm ²
Other wiring on request	
Keying positions	24

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	(63 A / 690 V) ou (45 A / 1000 V)
Load-break capability according to EN 60947-3	
AC-22	63 A / 690 V
AC-23	63 A / 400 V
Short-circuit (withstand and close-on)	10 kA

DSN6 decontacteur outperforms the endurance and load-break requirements of EN 60309-1.

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	61 64 08A
190 - 230 V	3P+E	61 64 033
220 - 250 V	1P+N+E	61 64 015
380 - 440 V	3P+E	61 64 013
380 - 440 V	3P+N+E	61 64 017
660 - 690 V	3P+E	61 64 193
660 - 690 V	3P+N+E	61 64 197

Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle: : A 5 pin 400 V 3pne socket will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug

Please consult us for more options

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	61 68 08A
190 - 230 V	3P+E	61 68 033
220 - 250 V	1P+N+E	61 68 015
380 - 440 V	3P+E	61 68 013
380 - 440 V	3P+N+E	61 68 017
660 - 690 V	3P+E	61 68 193
660 - 690 V	3P+N+E	61 68 197



Receptacle with auxiliary contacts

With 2 auxiliary contacts (16 A / 400 V)	Recept no. + 972
With 4 auxiliary contacts (16 A / 400 V)	Recept no. + 264



Inlet with auxiliary contacts

With 2 auxiliary contacts (16 A / 400 V)	Inlet no. + 972
With 4 auxiliary contacts (16 A / 400 V)	Inlet no. + 264



Certificate N°
FR 60037180-537184N

Boxes

Cable gland not included



Wall box
poly 30°



Wall box metal +
poly sleeve 30°



Wall box metal +
straight metal sleeve



Wall box metal +
metal sleeve 70°



Wall box poly 70°
volume

Entry

M25	61 6A 053	61 6A 653	69 6A 095	87 3A 053
M32		61 6A 653 419	69 6A 095 419	87 3A 053 419
M40		61 6A 653 420	69 6A 095 420	87 3A 053 420

Not drilled and
without cable gland
Part no. 51 CA 058

Sleeves



Inclined
poly 30°



Inclined
poly 70°



Straight
metal



Inclined
metal 70°

61 6A 027

51 CA 757

69 6A 127

87 3A 087

Handles



Straight
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

10-30 mm	61 6A 013	5-12 mm	61 6A 253 20P	6-12 mm	61 6A 953 20M	M20	61 6A 253 417
10-30 mm	61 6A 473 *	9-18 mm	61 6A 753	10-18 mm	61 6A 963	M25	61 6A 253 418
* With built-in finger draw plate (recommended for inline connections)		14-25 mm	61 6A 253 32P	16-24 mm	61 6A 953 32M	M32	61 6A 253 419
		18-32 mm	61 6A 253 40P	22-32 mm	61 6A 953 40M	M40	61 6A 253 420



Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18



Locking with shaft for
3 padlocks - Ø 4 mm
(padlocks not
supplied)

Socket no + 844



Stop button
Socket no + 453



IP67 inlet cap
61 6A 126



Self-closing lid for
inlet
31 3A 226

DSN6 with 4 auxiliary contacts

With 4 auxiliary contacts, DSN6 can connect a thermistor and control a process in addition to the main power connection. There is no need to operate an additional connector.



This feature allows for the connection of power supply and between the control board and the machine.

DECONTACTOR™ = Plug & Receptacle + Switch

Several countries legally require that up from a given rated current or power, separation of a plug and socket must be made impossible under load. Thanks to its integral load-break switch feature, the decontactor can make and break safely. The decontactor's simple design makes its load-break switch is a more reliable and cost efficient solution compared with other mechanical or electrical solutions.



DS

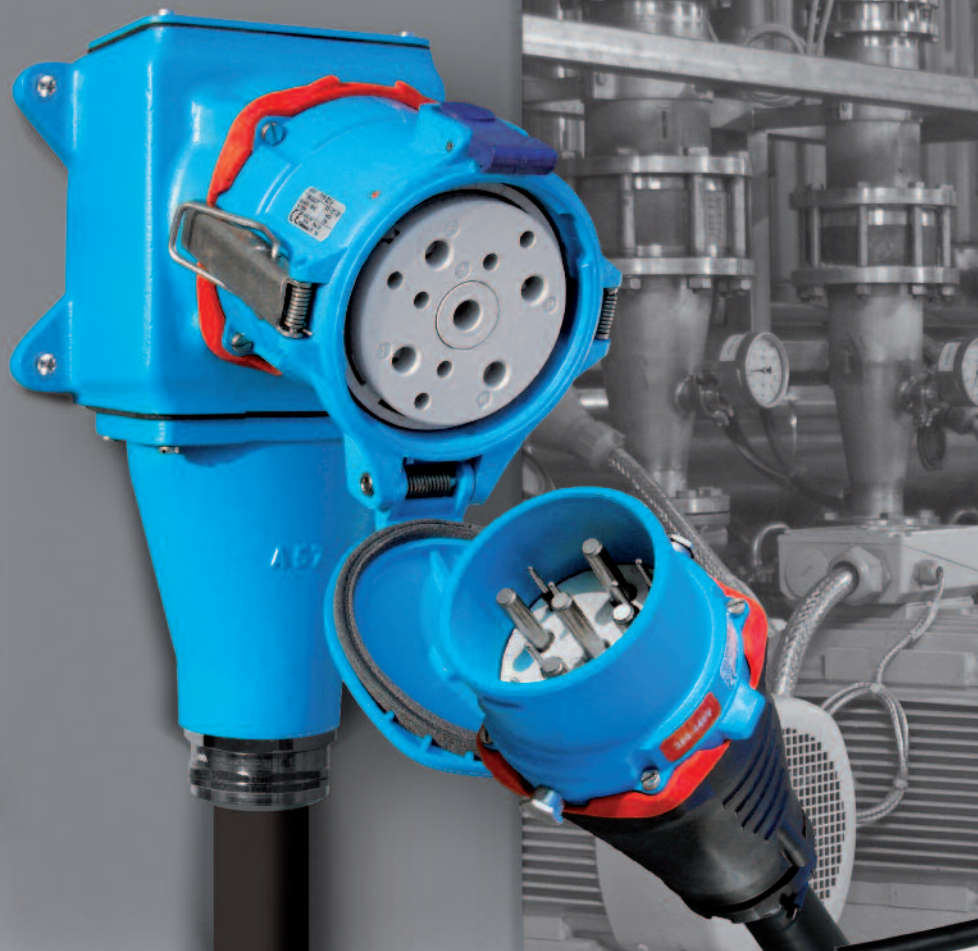
30 A

50 A

90 A

150 A

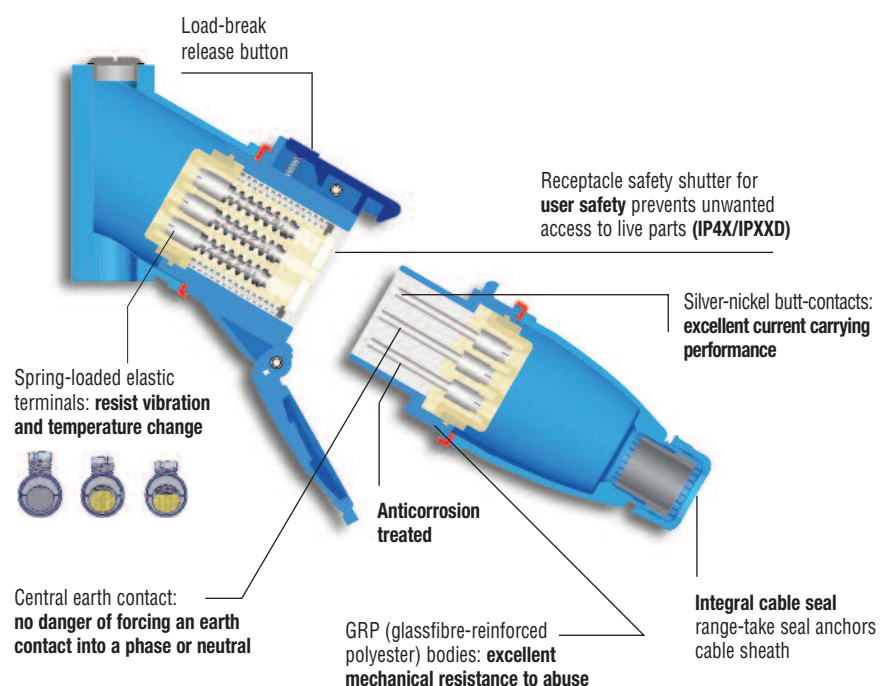
250 A



The DS family of Deconnectors offer ratings from 30 to 250 A (ratings specified by IEC 60309-1). Both receptacles and inlets are available in metal version from 90 A rating.

- IP54/IP55 as standard features
- Safe and simple connection up to 250 A
- Connections for motors and gensets

Mechanical features



SPECIFICATION

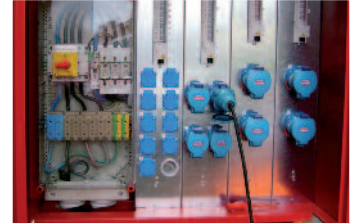
IP54/ IP55 Plug and Receptacle with integral AC-22 / AC-23 switching device, safety shutter (IP4X/IPXXD receptacle), silver-nickel butt contacts with metal braid, comply with BECMA international standard.



DECONTACTOR™ FOR INDUSTRY

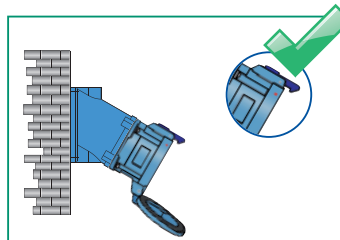


Machinery for public works

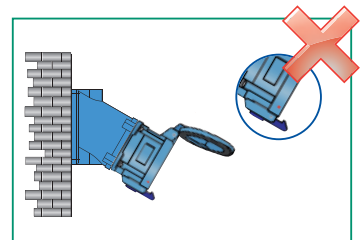


Gensets

DS



Mounting hook up: **proper**



Mounting hook down: **improper**

Electrical features

Plugs and receptacles with integral load-break switching capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

	DS1	DS3	DS6	DS9	DS2
Rated current In (up to)	30 A	50 A	90 A	150 A	250 A
Maximum Voltage	690 V	1000 V	1000 V	1000 V	1000 V
AC-22 switching capability	16 A / 690 V	32 A / 690 V	63 A / 690 V	150 A / 400 V	250 A / 400 V
AC-23 switching capability	30 A / 400 V	50 A / 400 V	90 A / 400 V	100 A / 440 V	160 A / 440 V
Auxiliary contacts (optional)	2	4	4	6	7
Keying positions (*)	24	24	24	24	12
Ambient temperature	-40 °C to +60 °C for all DS range				
Short-circuit current Icc	10 kA for all DS range				

(*) To discriminate between different power supplies and applications

Regulatory features

DS Decontactors comply with:

- IEC 60309-1 & IEC 60309-4 European and International standards (plugs and receptacles for industrial purposes),
- The European Low Voltage Directive 2006/95/CE,
- The French NF C 15-100 standard,
- The French decree n°88-1056 dated 14th November 1988,
- The decrees relating to workers' protection in Belgium, Spain and Italy,
- The load-break capability for AC-22 and AC-23 categories described in CEI 60947-3.

Also certified by VERITAS LCIE, UL, AS, VDE and CSA (French, Us, Australian, German & Canadian) and by BUREAU VERITAS MARINE inspection laboratories.



UNDERWRITERS
LABORATORIES
INC.®

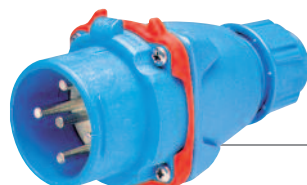


STANDARDS
AUSTRALIA

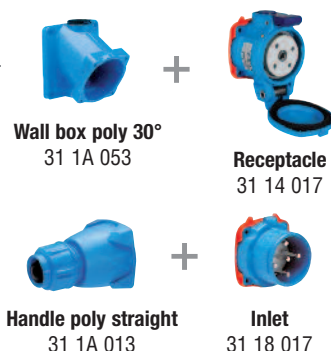


Typical configuration

Wall mounted receptacle



Plug



Plugs and receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	30 A
Maximum voltage	690 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK08
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	2,5 - 6 mm ²
Stranded wiring (min-max)	2,5 - 10 mm ²
Other wiring on request	
Keying positions	24

DS1 Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	30 A / 690 V
Load-break capability according to EN 60947-3	
AC-22	(30 A / 500 V) or (16 A / 690 V)
AC-23	30 A / 400 V
Short-circuit (withstand and close-on)	10 kA

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	31 14 08A
190 - 230 V	3P+E	31 14 033
220 - 250 V	1P+N+E	31 14 015
380 - 440 V	3P+E	31 14 013
380 - 440 V	3P+N+E	31 14 017
660 - 690 V	3P+E	31 14 193
660 - 690 V	3P+N+E	31 14 197



Receptacle with auxiliary contacts

With 2 auxiliary contacts (30 A / 500 V) Recept no. + 972

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	31 18 08A
190 - 230 V	3P+E	31 18 033
220 - 250 V	1P+N+E	31 18 015
380 - 440 V	3P+E	31 18 013
380 - 440 V	3P+N+E	31 18 017
660 - 690 V	3P+E	31 18 193
660 - 690 V	3P+N+E	31 18 197



Inlet with auxiliary contacts

With 2 auxiliary contacts (30 A / 500 V) Inlet no. + 972

Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle: :
A 5 pin 400 V 3pne receptacle will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug

Please consult us for more options



Certificate N°
FR 60042266A

Boxes

Cable gland not included



Wall box
poly 30°



Wall box metal +
poly sleeve 30°



Wall box
metal 20°



Wall box metal +
straight metal sleeve



Wall box poly 70°
volume

Entrée

M20	31 1A 053	31 1A 653	39 1A 053	39 1A 095
M25	31 1A 083	31 1A 653 418		39 1A 095 418
M32		31 1A 653 419		39 1A 095 419
M40		31 1A 653 420		39 1A 095 420

Not drilled and
without cable gland
Part no 51 BA 058

Sleeves



Inclined
poly 30°



Inclined
poly 70°



Inclined
metal 30°



Straight
metal

31 1A 027

51 BA 757

39 1A 027

39 1A 127

Handles



Straight
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

5-21mm	31 1A 013	5-12mm	31 1A 753	7-13mm	31 1A 963	M20	31 1A 253 417
		9-18mm	31 1A 253 25P	8-16mm	31 1A 953 25M	M25	31 1A 253 418
		14-25mm	31 1A 253 32P			M32	31 1A 253 419
		18-32mm	31 1A 253 40P			M40	31 1A 253 420

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for polyester latch	Recept no. + 833
Self-closing lid for inlet	31 1A 226



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)

Receptacle no +
844



Stop button
Receptacle no +
453



IP67 inlet cap
31 1A 126

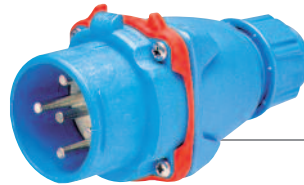


Closing mechanism (finger
draw plates sold per unit)
31 1A 346

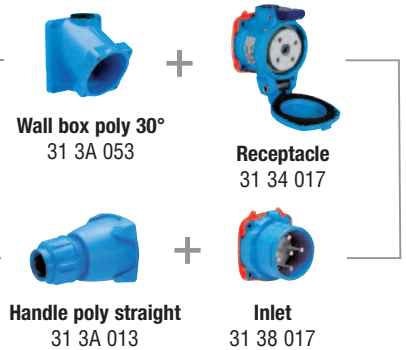


Typical configuration

Wall mounted receptacle



Plug



Plugs and Receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	50 A
Maximum voltage	1000 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK08
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	4 - 16 mm ²
Stranded wiring (min-max)	4 - 25 mm ²
Other wiring on request	
Keying positions	24

DS3 Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	(50 A / 690 V) or (32 A / 1000 V)
Load-break capability according to EN 60947-3	
AC-22	32 A / 690 V
AC-23	50 A / 400 V
Short-circuit (withstand and close-on)	10 kA

Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle: : A 5 pin 400 V 3pne receptacle will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug

Please consult us for more options

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	31 34 08A
190 - 230 V	3P+E	31 34 033
220 - 250 V	1P+N+E	31 34 015
380 - 440 V	3P+E	31 34 013
380 - 440 V	3P+N+E	31 34 017
660 - 690 V	3P+E	31 34 193
660 - 690 V	3P+N+E	31 34 197
1000 V	3P+E	31 34 223

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	31 38 08A
190 - 230 V	3P+E	31 38 033
220 - 250 V	1P+N+E	31 38 015
380 - 440 V	3P+E	31 38 013
380 - 440 V	3P+N+E	31 38 017
660 - 690 V	3P+E	31 38 193
660 - 690 V	3P+N+E	31 38 197
1000 V	3P+E	31 38 223

Receptacle with auxiliary contacts

With 2 auxiliary contacts (16 A / 400 V)	Recept no. + 972
With 4 auxiliary contacts (16 A / 400 V)	Recept no. + 264

Inlet with auxiliary contacts

With 2 auxiliary contacts (16 A / 400 V)	Inlet no. + 972
With 4 auxiliary contacts (16 A / 400 V)	Inlet no. + 264



Certificate N°
FR 60042266B

Boxes

Cable gland not included



Wall box
poly 30°



Wall box metal +
poly sleeve 30°



Wall box
metal 20°



Wall box metal +
straight metal sleeve



Wall box metal +
metal sleeve 70°



Wall box poly 70°
volume

Entry

M20		31 3A 653 417		39 3A 095 417	87 3A 053 417
M25	31 3A 053	31 3A 653	39 3A 053	39 3A 095	87 3A 053
M32		31 3A 653 419		39 3A 095 419	87 3A 053 419
M40		31 3A 653 420		39 3A 095 420	87 3A 053 420

Not drilled and
without cable gland
Part no. 51 CA 058

Sleeves



Inclined
poly 30°

31 3A 027



Inclined
poly 70°

51 CA 757



Inclined
metal 30°

39 3A 027



Straight
metal

39 3A 127



Inclined
metal 70°

87 3A 087

Handles



Straight
poly

10 - 30 mm	31 3A 013
10 - 30 mm	31 3A 473 *

* With built-in finger draw plate
(recommended for inline connections)



Straight poly
with poly cable gland

5 - 12 mm	31 3A 253 20P
9 - 18 mm	31 3A 753
14 - 25 mm	31 3A 253 32P
18 - 32 mm	31 3A 253 40P



Straight metal
with metal cable gland

7 - 13 mm	31 3A 953 20M
8 - 16 mm	31 3A 963
16 - 24 mm	31 3A 953 32M
22 - 32 mm	31 3A 953 40M



Straight poly without cable gland
with metric threaded entry

M20	31 3A 253 417
M25	31 3A 253 418
M32	31 3A 253 419
M40	31 3A 253 420

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for polyester latch	Recept no. + 833
IP66/IP67 watertightness (recept & inlet)	Part no. + 600



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)

Receptacle no +
844



Stop button
Receptacle no +
453

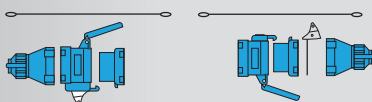


IP67 inlet cap
31 3A 126



Self-closing lid for inlet
31 3A 226

Self-ejecting



Self-ejecting systems prevent the rupturing of the electric circuit when a mobile device is removed before proper disconnection of the electrical supply. Meltric Corporation offers both mechanical and electrical ejecting systems for plug and coupler receptacle of all sizes.

For more detailed information, please see self-ejecting chapter of this catalogue.

Release button on the upside !

The Decontactor is a plug and receptacle with an integral switch. There is no need for an external switch.

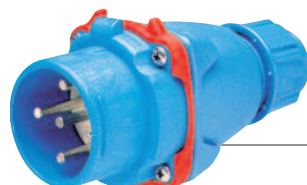
The release button must be apparent to make operation easy. Therefore, when mounting the receptacle on a wall box or an adapter sleeve, **make sure that the release button is on the upside.**



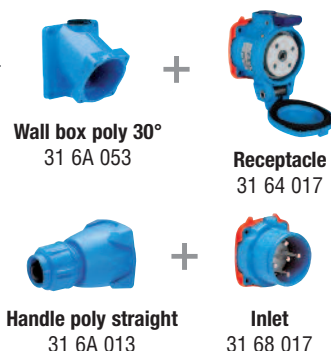


Typical configuration

Wall mounted receptacle



Plug



Plugs and receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	90 A
Maximum voltage	1000 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK08
Resistance to shocks (metal casing)	IK09

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	10 - 25 mm ²
Stranded wiring (min-max)	10 - 35 mm ²
Other wiring on request	
Keying positions	24

DS6 Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	(90 A / 690 V) or (63 A / 1000 V)
Load-break capability according to EN 60947-3	
AC-22	63 A / 690 V
AC-23	90 A / 400 V
Short-circuit (withstand and close-on)	10 kA

Receptacle (female) PBT*



Inlet (male) PBT*



Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle: A 5 pin 400 V 3pne receptacle will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug

Please consult us for more options

Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	31 64 033
220 - 250 V	1P+N+E	31 64 015
380 - 440 V	3P+E	31 64 013
380 - 440 V	3P+N+E	31 64 017
660 - 690 V	3P+E	31 64 193
660 - 690 V	3P+N+E	31 64 197
1000 V	3P+E	31 64 223

Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	31 68 033
220 - 250 V	1P+N+E	31 68 015
380 - 440 V	3P+E	31 68 013
380 - 440 V	3P+N+E	31 68 017
660 - 690 V	3P+E	31 68 193
660 - 690 V	3P+N+E	31 68 197
1000 V	3P+E	31 68 223

* For a metal casing, replace 31 on part no. by 39

receptacle with auxiliary contacts

With 2 auxiliary contacts (5 A / 500 V)	Recept no. + 972
With 4 auxiliary contacts (5 A / 500 V)	Recept no. + 264

Inlet with auxiliary contacts

With 2 auxiliary contacts (5 A / 500 V)	Inlet no. + 972
With 4 auxiliary contacts (5 A / 500 V)	Inlet no. + 264



Certificate N°
FR 60042266C

Boxes

Cable gland not included



Wall box
poly 30°



Wall box metal +
metal sleeve 30°



Wall box
metal 20°



Wall box metal +
straight metal sleeve



Wall box metal +
metal sleeve 70°



Wall box poly 70°
volume

Entry

M25		39 6A 653 418		39 6A 095 418	87 6A 053 418	Not drilled and without cable gland Part no. 51 DA 058 (Max. M40)
M32		39 6A 653 419		39 6A 095 419	87 6A 053 419	
M40	31 6A 053	39 6A 653	39 6A 053	39 6A 095	87 6A 053	
M50		39 6A 653 429		39 6A 095 429	87 6A 053 429	

Sleeves



Inclined
poly 30°

31 6A 027



Inclined
poly 70°

51 DA 757



Inclined
metal 30°

39 6A 027



Straight
metal

39 6A 127



Inclined
metal 70°

87 6A 087

Handles



Straight
poly

13 - 35 mm 31 6A 013
13 - 35 mm 31 6A 473 *

* With built-in finger draw plate
(recommended for inline connections)



Straight poly
with poly cable gland

9 - 18 mm 31 6A 253 25P
14 - 25 mm 31 6A 253 32P
18 - 32 mm 31 6A 753
24 - 38 mm 31 6A 253 50P



Straight metal
with metal cable gland

8 - 16 mm 31 6A 953 25M
16 - 24 mm 31 6A 953 32M
22 - 32 mm 31 6A 963
34 - 44 mm 31 6A 953 50M



Straight poly without cable gland
with metric threaded entry

M25 31 6A 253 418
M32 31 6A 253 419
M40 31 6A 253 420
M50 31 6A 253 429

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for polyester latch	Recept no. + 833
IP66/IP67 watertightness (recept & inlet)	Part no. + 600



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)

Receptacle no +
844



Stop button
Receptacle no +
453



IP67 inlet cap
31 6A 126



Self-closing lid for inlet
31 6A 226

DS6 with 6 auxiliary contacts

With 4 auxiliary contacts, DS6 can connect a thermistor and control a process in addition to the main power connection. There is no need to operate an additional connector.



This feature allows for the connection of power supply and between the control board and the machine.

DECONTACTOR™ = Plug & receptacle + Switch

Several countries legally require that up from a given rated current or power, separation of a plug and receptacle must be made impossible under load. Thanks to its integral load-break switch feature, the Decontactor can make and break safely. The Decontactor's simple design makes its load-break switch is a more reliable and cost efficient solution compared with other mechanical or electrical solutions.



DS9 DECONTACTOR™

GRP CASING

up to **150 A** — **IP66/67**



Typical configuration

Inclined receptacle



Plug



Sleeve poly 30°
31 9A 027



Receptacle
31 94 017 976



Handle straight elast.
65 9A 013 ...



Inlet
31 98 017 976

Plugs and Receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	150 A
Maximum voltage	1000 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK08

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	25 - 70 mm ²
Stranded wiring (min-max)	25 - 95 mm ²
Keying positions	24

DS9 Deconnector outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	(150 A / 400 V) or (125 A / 690 V)
Load-break capability according to EN 60947-3	
AC-22	(90 A / 690 V) or (150 A / 400 V)
AC-23	100 A / 440 V
Short-circuit (withstand and close-on)	10 kA

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	31 94 033
220 - 250 V	1P+N+E	31 94 015
380 - 440 V	3P+E	31 94 013
380 - 440 V	3P+N+E	31 94 017
660 - 690 V	3P+E	31 94 193
660 - 690 V	3P+N+E	31 94 197
1000 V	3P+E	31 94 223

Receptacle with auxiliary contacts:

With 2 auxiliary contacts (10 A / 400 V)	Recept no. + 262
With 4 auxiliary contacts (10 A / 400 V)	Recept no. + 264
With 6 auxiliary contacts (10 A / 400 V)	Recept no. + 976

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	31 98 033
220 - 250 V	1P+N+E	31 98 015
380 - 440 V	3P+E	31 98 013
380 - 440 V	3P+N+E	31 98 017
660 - 690 V	3P+E	31 98 193
660 - 690 V	3P+N+E	31 98 197
1000 V	3P+E	31 98 223

Inlet with auxiliary contacts:

With 2 auxiliary contacts (10 A / 400 V)	Inlet no. + 262
With 4 auxiliary contacts (10 A / 400 V)	Inlet no. + 264
With 6 auxiliary contacts (10 A / 400 V)	Inlet no. + 976

Other voltages and polarities are available on request (See p. 5)

Please consult us for more options

Boxes

Cable gland not included



Wall box
metal 20°



Wall box
metal 20°



Wall box metal +
metal sleeve 70°



Wall box metal +
metal sleeve 30°



Wall box metal +
straight metal sleeve

Entry

M40	39 9A 053 420		87 9A 053 420	39 9A 653 420	39 9A 095 420
M50		39 9A 053	87 9A 053	39 9A 653	39 9A 095
M63		39 9A 053 463	87 9A 053 463	39 9A 653 463	39 9A 095 463

Sleeves



Inclined
poly 30°



Inclined
metal 30°



Inclined
metal 70°



Straight
metal

31 9A 027

39 9A 027

87 9A 087

39 9A 127

Handles



Straight
elastomere



Straight poly
with poly cable gland



Straight poly without cable gland
with metric threaded entry

25 - 35 mm	65 9A 013 D35	35 - 48 mm	61 9A 253 63P	M63	61 9A 253 463
35 - 45 mm	65 9A 013 D45				
45 - 49 mm	65 9A 013 D49				

Options & accessories

	Part no.
Self-returning lid	Recept no. + R



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)
Receptacle no +
844



Stop button
Receptacle no +
453



IP67 inlet cap
31 9A 126



Self-closing lid for inlet
Please consult us

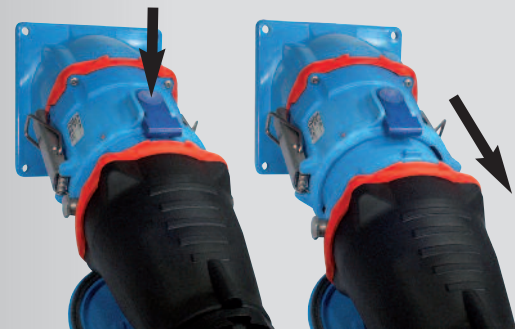
DS9 with 6 auxiliary contacts

With up to 6 auxiliary contacts, DS9 can connect a thermistor and control a process in addition to the main power connection. There is no need to operate an additional connector. **This feature allows for the connection of power supply and between the control board and the machine.**



Break under load at 150 A

Thanks to the design of its contacts, DS9 can safely break under load up to 150 A / 400 V under conditions defined for an AC-22 switch. There is no need to lock the receptacle with a switch or to use pilot contacts and a contactor. This simplifies installation and reduces costs. It is then very simple to break an inline connector under load.



DS9 DECONTACTOR™

METAL CASING

up to **150 A** — **IP55**



Typical configuration :

Inclined receptacle



Plug



Plugs and Receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	150 A
Maximum voltage	1000 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	25 - 70 mm ²
Stranded wiring (min-max)	25 - 95 mm ²
Keying positions	24

DS9 Decontacter outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	(150 A / 400 V) or (125 A / 690 V)
Load-break capability according to EN 60947-3	
AC-22	(90 A / 690 V) or (150 A / 400 V)
AC-23	100 A / 440 V
Short-circuit (withstand and close-on)	10 kA

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	39 94 033
220 - 250 V	1P+N+E	39 94 015
380 - 440 V	3P+E	39 94 013
380 - 440 V	3P+N+E	39 94 017
660 - 690 V	3P+E	39 94 193
660 - 690 V	3P+N+E	39 94 197
1000 V	3P+E	39 94 223

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	39 98 033
220 - 250 V	1P+N+E	39 98 015
380 - 440 V	3P+E	39 98 013
380 - 440 V	3P+N+E	39 98 017
660 - 690 V	3P+E	39 98 193
660 - 690 V	3P+N+E	39 98 197
1000 V	3P+E	39 98 223

Other voltages and polarities are available on request (See p. 5)

Please consult us for more options

receptacle with auxiliary contacts:

With 2 auxiliary contacts (10 A / 400 V)	Recept no. + 262
With 4 auxiliary contacts (10 A / 400 V)	Recept no. + 264
With 6 auxiliary contacts (10 A / 400 V)	Recept no. + 976

Inlet with auxiliary contacts:

With 2 auxiliary contacts (10 A / 400 V)	Inlet no. + 262
With 4 auxiliary contacts (10 A / 400 V)	Inlet no. + 264
With 6 auxiliary contacts (10 A / 400 V)	Inlet no. + 976

Boxes

Cable gland not included



Wall box
metal 20°



Wall box +
metal sleeve 20°



Wall box +
metal sleeve 70°



Wall box +
metal sleeve 30°



Wall box +
straight metal sleeve

Entry

M40	39 9A 053 420		87 9A 053 420	39 9A 653 420	39 9A 095 420
M50		39 9A 053	87 9A 053	39 9A 653	39 9A 095
M63		39 9A 053 463	87 9A 053 463	39 9A 653 463	39 9A 095 463

Sleeves



Inclined
metal 30°



Inclined
metal 70°



Straight
metal

39 9A 027

87 9A 087

39 9A 127

Handles



Straight
elastomere



Straight poly
with metal cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

25-35 mm	65 9A 013 D35	35-48 mm	61 9A 253 63M	22-32 mm	31 9A 953 40M	M63	61 9A 253 463
35-45 mm	65 9A 013 D45			34-44 mm	31 9A 963		
45-49 mm	65 9A 013 D49			35-48 mm	31 9A 953 63M		

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
IP66/IP67 watertightness (recept & inlet)	Part no. + 600



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)

Receptacle no +
844



Stop button
Receptacle no +
453



IP67 inlet cap
31 9A 126



Self-closing lid for inlet
Please consult us

Ambient temperature: -40 °C to +60 °C

Thanks to carefully selected materials and its innovative contact technology, the Decontactor can work safely and reliably without additional precaution between -40 °C to +60 °C. For applications at other temperature range, please contact us for details.





Typical configuration

Wall mounted receptacle



Plug



Wall box metal 60°
39 2A 053



Receptacle
39 24 017



Handle straight elast.
35 2A 013 D45



Inlet
39 28 017

Plugs and Receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

DS2 Decontactator outperforms the endurance and load-break requirements of EN 60309-1.

Main features:

Rated current (with wiring according to standard)	250 A
Maximum voltage	1000 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	70 - 95 mm ²
Stranded wiring (min-max)	70 - 120 mm ²
Other wiring on request	
Keying positions	12

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	(250 A / 400 V) or (200 A / 690 V)
Load-break capability according to EN 60947-3	
AC-22	(250 A / 400 V) or (125 A / 690 V)
AC-23	160 A / 440 V
Short-circuit (withstand and close-on)	10 kA

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	39 24 033
380 - 440 V	3P+E	39 24 013
380 - 440 V	3P+N+E	39 24 017
660 - 690 V	3P+E	39 24 193
660 - 690 V	3P+N+E	39 24 197
1000 V	3P+E	39 24 223

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	39 28 033
380 - 440 V	3P+E	39 28 013
380 - 440 V	3P+N+E	39 28 017
660 - 690 V	3P+E	39 28 193
660 - 690 V	3P+N+E	39 28 197
1000 V	3P+E	39 28 223

Other voltages and polarities are available on request (See p. 5)

Please consult us for more options

receptacle with auxiliary contacts

With 2 auxiliary contacts (5 A / 400 V) Recept no. + 972

Inlet with auxiliary contacts

With 2 auxiliary contacts (5 A / 400 V) Inlet no. + 972

Please consult us for more auxiliary contacts in 3P+T

Boxe

Cable gland not included



Wall box metal +
metal sleeve 60°

Entry	
M63	39 2A 053
M75	39 2A 053 475

Sleeve



Inclined
metal 60°

39 2A 027

Handles



Straight
elastomere



Straight
metal



Straight poly
with poly cable gland



Straight poly without cable gland
with metric threaded entry

25 - 35 mm	35 2A 013 D35	40 - 54 mm	39 2A 913	35 - 48 mm	39 2A 753	M63	39 2A 253 463
35 - 45 mm	35 2A 013 D45	54 - 63 mm	39 2A 913-63				
45 - 49 mm	35 2A 013 D49						

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
IP66/IP67 watertightness (recept & inlet)	Part no. + 600



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)

Receptacle no +
844



Stop button
Receptacle no +
453

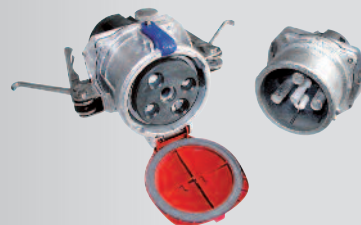


IP67 inlet cap
31 2A 126

Connector for 400 A

DS4 is a special product that can work with up to 400 A as a connector without load-break feature. This connector is available in 3pe version with 2 pilot contact to wire electrical protection device.

Advantage: The DS4 has the same binding interface than the DS2, it is just as easy to handle. See High Current range.



DN

20 A

30 A

50 A

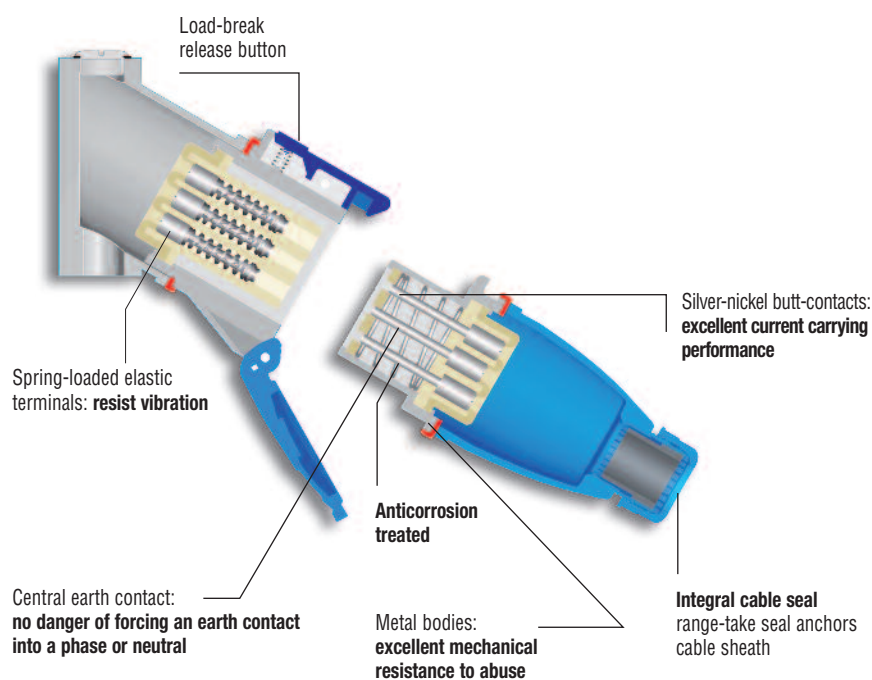
90 A

150 A

- Heavy industry, mines and quarries
- Metal casing and accessories
- IP54/IP55 as standard feature
- Connection of motors and gensets in quarries

The DN family of Deconnectors cover ratings from 30 to 150 A (ratings specified by IEC 60309-1). DN Deconnectors offer safety and reliability in heavy duty environments. The metal casings and accessories are anti-corrosion treated.

Mechanical features



SPECIFICATION

Metal-bodied plug and receptacle with integral switching device AC-22, silver-nickel butt contacts with metal braid, comply with BECMA international standard.



METAL DECONTACTOR™



Siderurgy



Quarries



Shipyard



Public works

Electrical features

Plugs and receptacles with integral load-break switching capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

	DN8	DN1	DN3	DN6	DN9
Rated current (In)	20 A	30 A	50 A	90 A	150 A
Maximum Voltage	500 V	500 V	500 V	500 V	415 V
AC-22 switching capability	20 A / 400 V	30 A / 400 V	50 A / 400 V	90 A / 400 V	150 A / 400 V
Auxiliary contacts (optional)	-	-	-	4	-
Keying positions (¹)	16	16	16	16	4
Ambient temperature	-40 °C to +60 °C for all DN range				

(¹) To discriminate between different power supplies and applications

Regulatory features

DN Decontactors comply with:

- IEC 60309-1 & IEC 60309-4 European and International standards (plugs and receptacles for industrial purposes),
- The European Low Voltage Directive 2006/95/CE,
- The French NF C 15-100 standard,
- The French decree n°88-1056 dated 14th November 1988,
- The decrees relating to workers' protection in Belgium, Spain and Italy,
- The load-break capability for AC-22 category described in CEI 60947-3.

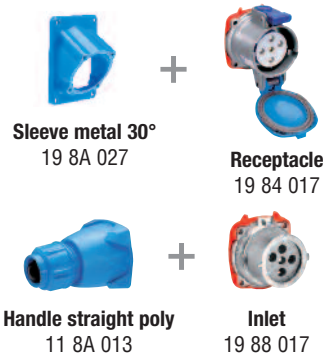


Typical configuration

Inclined receptacle



Plug



Plugs and Receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	20 A
Maximum voltage	500 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09
Resistance to shocks (poly casing)	IK08

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	1 - 6 mm ²
Stranded wiring (min-max)	1,5 - 10 mm ²
Other wiring on request	
Keying positions	16

DN8 Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	20 A / 500 V
Load-break capability according to EN 60947-3	
AC-22	(20 A / 400 V) or (10 A / 500 V)

Receptacle (female) metal*



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	19 84 08A
190 - 230 V	3P+E	19 84 033
220 - 250 V	1P+N+E	19 84 015
380 - 440 V	3P+E	19 84 013
380 - 440 V	3P+N+E	19 84 017
480 - 500 V	3P+E	19 84 093
480 - 500 V	3P+N+E	19 84 097

Inlet (male) metal*



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	19 88 08A
190 - 230 V	3P+E	19 88 033
220 - 250 V	1P+N+E	19 88 015
380 - 440 V	3P+E	19 88 013
380 - 440 V	3P+N+E	19 88 017
480 - 500 V	3P+E	19 88 093
480 - 500 V	3P+N+E	19 88 097

Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle: : A 5 pin 400 V 3pne receptacle will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug

* For GRP casing, replace 19 on part no. by 11.

Eg: receptacle 400 V - 3P+N+T : 1184017

Boxes

Cable gland not included



Wall box
metal 20°



Wall box
poly 30°



Wall box metal +
metal sleeve 30°



Wall box metal +
straight metal sleeve



Wall box poly 70°
volume

Entry

M20	19 8A 053	11 8A 053	19 8A 653	19 8A 095
M25			19 8A 653 418	19 8A 095 418
M32			19 8A 653 419	19 8A 095 419
M40			19 8A 653 420	19 8A 095 420

Not drilled and
without cable gland
Part no. 51 BA 058

Sleeves



Inclined
poly 30°



Inclined
metal 30°



Inclined
poly 70°



Straight
métal

11 8A 027

19 8A 027

51 BA 757

19 8A 127

Handles



Straight
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

5-21mm	11 8A 013	5-12mm	19 8A 753	7-13mm	19 8A 963	M20	19 8A 253 417
		9-18mm	19 8A 253 25P	8-16mm	19 8A 953 25M	M25	19 8A 253 418
		14-25mm	19 8A 253 32P			M32	19 8A 253 419
		18-32mm	19 8A 253 40P			M40	19 8A 253 420

Options & accessories

	Part no.
IP66/IP67 watertightness (recept & inlet)	Part no. + 677
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for polyester latch	Recept no. + 833
Rubber cover for metal latch	Recept no. + 834



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)

Receptacle no +
844



Stop button
Socket no + 453



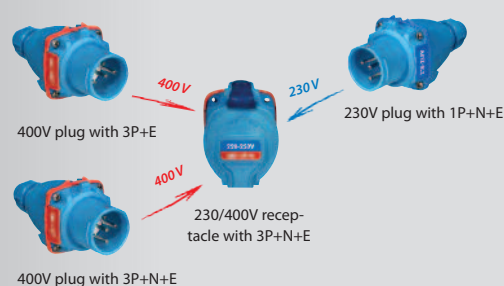
IP54 inlet cap
19 8A 126



Closing mechanism (finger
draw plates sold per unit)
19 8A 346

Dual voltage receptacle

Reduce your installation costs: A dual voltage 230/ 400V receptacle accepts 3 different plugs and one industrial-domestic adapter.



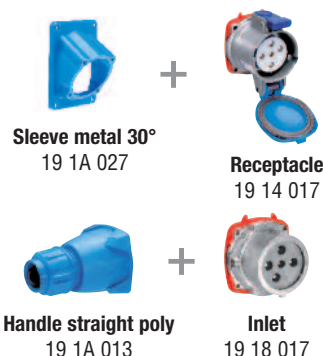


Typical configuration :

Inclined receptacle



Plug



Plugs and Receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	30 A
Maximum voltage	500 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	2,5 - 6 mm ²
Stranded wiring (min-max)	2,5 - 10 mm ²
Other wiring on request	
Keying positions	16

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	30 A / 500 V
Load-break capability according to EN 60947-3	
AC-22	(30 A / 400 V) or (16 A / 500 V)

DN1 Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	19 14 08A
190 - 230 V	3P+E	19 14 033
220 - 250 V	1P+N+E	19 14 015
380 - 440 V	3P+E	19 14 013
380 - 440 V	3P+N+E	19 14 017
480 - 500 V	3P+E	19 14 093
480 - 500 V	3P+N+E	19 14 097

Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle:
A 5 pin 400 V 3pne receptacle will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	19 18 08A
190 - 230 V	3P+E	19 18 033
220 - 250 V	1P+N+E	19 18 015
380 - 440 V	3P+E	19 18 013
380 - 440 V	3P+N+E	19 18 017
480 - 500 V	3P+E	19 18 093
480 - 500 V	3P+N+E	19 18 097

Boxes

Cable gland not included



Wall box
metal 20°



Wall box +
sleeve metal 70°



Wall box +
metal sleeve 30°



Wall box +
straight metal sleeve

Entry				
M20	19 1A 053	87 3A 053 417	19 1A 653	19 1A 095
M25	19 1A 053 418	87 3A 053	19 1A 653 418	19 1A 095 418
M32	19 1A 053 419	87 3A 053 419	19 1A 653 419	19 1A 095 419
M40		87 3A 053 420	19 1A 653 420	19 1A 095 420

Sleeves



Inclined
metal 30°



Inclined
metal 70°



Straight
metal

19 1A 027	87 3A 087	19 1A 127
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Handles



Straight
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

10-30 mm	19 1A 013	5-12 mm	19 1A 753	7-13 mm	19 1A 963	M20	19 1A 253 417
		9-18 mm	19 1A 253 25P	8-16 mm	19 1A 953 25M	M25	19 1A 253 418
		14-25 mm	19 1A 253 32P	16-24 mm	19 1A 953 32M	M32	19 1A 253 419
		18-32 mm	19 1A 253 40P	22-32 mm	19 1A 953 40M	M40	19 1A 253 420

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for polyester latch	Recept no. + 834
IP66/IP67 watertightness (recept & inlet)	Part no. + 677



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)

Receptacle no +
844



Stop button
Receptacle no +
453

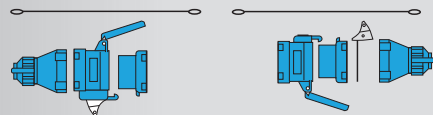


IP54 inlet cap
19 1A 126

Plug with integral fuse

DN8, DN1 and DN3 plugs offer optional integral fuses of respectively 16 A, 30 A and 50 A.

Self-ejecting



Self-ejecting systems prevent the rupturing of the electric circuit when a mobile device is removed before proper disconnection of the electrical supply. Marechal Electric offers both mechanical and electrical ejecting systems for plug and coupler receptacle of all sizes.

For more detailed information, please see self-ejecting chapter of this catalogue.

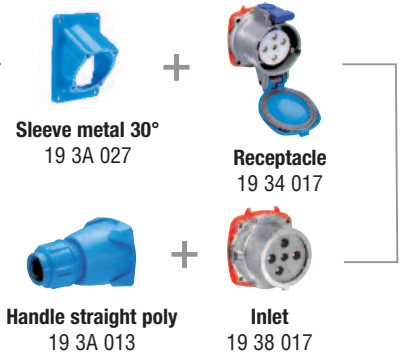


Typical configuration

Inclined receptacle



Plug



Plugs and Receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	50 A
Maximum voltage	500 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	2,5 - 16 mm ²
Stranded wiring (min-max)	2,5 - 25 mm ²
Other wiring on request	
Keying positions	16

DN3 Deconnector outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	50 A / 500 V
Load-break capability according to EN 60947-3	
AC-22	(50 A / 400 V) or (32 A / 500 V)

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	19 34 08A
190 - 230 V	3P+E	19 34 033
220 - 250 V	1P+N+E	19 34 015
380 - 440 V	3P+E	19 34 013
380 - 440 V	3P+N+E	19 34 017
480 - 500 V	3P+E	19 34 093
480 - 500 V	3P+N+E	19 34 097

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	19 38 08A
190 - 230 V	3P+E	19 38 033
220 - 250 V	1P+N+E	19 38 015
380 - 440 V	3P+E	19 38 013
380 - 440 V	3P+N+E	19 38 017
480 - 500 V	3P+E	19 38 093
480 - 500 V	3P+N+E	19 38 097

Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle: A 5 pin 400 V 3pne receptacle will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug

Boxes

Cable gland not included



Wall box
metal 20°



Wall box +
sleeve metal 70°



Wall box metal +
metal sleeve 30°



Wall box metal +
straight metal sleeve

Entry				
M25	19 3A 053	87 6A 053	19 3A 653	19 3A 095
M32		87 6A 053 419	19 3A 653 419	19 3A 095 419
M40		87 6A 053 420	19 3A 653 420	19 3A 095 420
M50		87 6A 053 429	19 3A 653 429	19 3A 095 429

Sleeves



Inclined
metal 30°



Incline
metal 70°



Straight
metal

19 3A 027	87 6A 087	19 3A 127
-----------	-----------	-----------

Handles



Straight
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

13-35 mm	19 3A 013	5-12 mm	19 3A 253 20P	7-13 mm	19 3A 953 25M	M20	19 3A 253 417
		9-18 mm	19 3A 753	8-16 mm	19 3A 963	M25	19 3A 253 418
		14-25 mm	19 3A 253 32P	16-24 mm	19 3A 953 32M	M32	19 3A 253 419
		18-32 mm	19 3A 253 40P	22-32 mm	19 3A 953 40M	M40	19 3A 253 420

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for polyester latch	Recept no. + 834
IP66/IP67 watertightness (socket & inlet)	Part no. + 677



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)

Receptacle no +
844



Stop button
Receptacle no +
453



IP54 inlet cap
19 3A 126

Release button on the upside !

The Decontactor is a plug and receptacle with an integral switch. There is no need for an external switch.

The release button must be apparent to make operation easy. Therefore, when mounting the receptacle on a wall box or an adapter sleeve, **make sure that the release button is on the upside.**



DN6 DECONTACTOR™

METAL CASING

up to **90 A** — **IP55**



Typical configuration

Wall mounted receptacle



Plug



Wall box +
sleeve metal 30°
19 6A 653



Receptacle
19 6A 017



Handle poly
elastomere
65 9A 013D25



Inlet
19 68 017

Plugs and receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	90 A
Maximum voltage	500 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	10 - 25 mm ²
Stranded wiring (min-max)	10 - 35 mm ²
Other wiring on request	
Keying positions	16

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	90 A / 500 V
Load-break capability according to EN 60947-3	
AC-22	(90 A / 400 V) or (63 A / 500 V)

DN6 Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	19 64 08A
190 - 230 V	3P+E	19 64 033
220 - 250 V	1P+N+E	19 64 015
380 - 440 V	3P+E	19 64 013
380 - 440 V	3P+N+E	19 64 017
480 - 500 V	3P+E	19 64 093
480 - 500 V	3P+N+E	19 64 097

Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle: : A 5 pin 400 V 3pne receptacle will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug

Please consult us for more options

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	19 68 08A
190 - 230 V	3P+E	19 68 033
220 - 250 V	1P+N+E	19 68 015
380 - 440 V	3P+E	19 68 013
380 - 440 V	3P+N+E	19 68 017
480 - 500 V	3P+E	19 68 093
480 - 500 V	3P+N+E	19 68 097



receptacle with auxiliary contacts

With 2 auxiliary contacts (5 A / 400 V)	Recept no. + 172
With 4 auxiliary contacts (5 A / 400 V)	Recept no. + 264



Inlet with auxiliary contacts

With 2 auxiliary contacts (5 A / 400 V)	Inlet no. + 172
With 4 auxiliary contacts (5 A / 400 V)	Inlet no. + 264

Boxes

Cable gland not included



Wall box
metal 20°



Wall box +
sleeve metal 70°



Wall box +
metal sleeve 30°



Wall box +
straight metal sleeve

Entry				
M32		87 9A 053 419	19 6A 653 419	19 6A 095 419
M40	19 6A 053	87 9A 053 420	19 6A 653 420	19 6A 095 420
M50		87 9A 053	19 6A 653	19 6A 095
M63		87 9A 053 463	19 6A 653 463	19 6A 095 463

Sleeves



Inclined
metal 30°



Inclined
metal 70°



Straight
metal

19 6A 027

87 9A 087

19 6A 127

Handles



Straight
elastomere



Straight poly
wit métal cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

18-25 mm	65 9A 013 D25	35-48 mm	61 9A 253 63M	16-24 mm	19 6A 953 32M	M63	61 9A 253 463
25-35 mm	65 9A 013 D35			22-32 mm	19 6A 963		
35-45 mm	65 9A 013 D45			34-44 mm	19 6A 953 50M		

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for polyester latch	Recept no. + 834
IP66/IP67 watertightness (socket & inlet)	Part no. + 677



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)



Stop button
Receptacle no +
453



IP54 inlet cap
19 6A 126

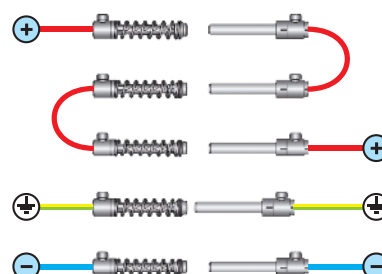


Closing mechanism
Draw Lever only: 19 6A 376
Draw plate only: 19 6A 396

Receptacle no +
844

Increase load-break capability with direct current

With direct current, depending on the time constant of the circuit, it is advisable to use a 3pne configured device. The 3 phase contacts can be wired in series for one of the poles in order to increase the numbers of arcs in series.





Typical configuration :

Inclined receptacle



Plug



Wall box +
sleeve metal 30°
19 9A 653



Receptacle
19 94 013



Handle straight
elastomere
65 9A 013D35



Inlet
19 98 013

Plugs and Receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	150 A
Maximum voltage	415 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	16 - 50 mm²
Stranded wiring (min-max)	16 - 70 mm²
Other wiring on request	
Keying positions	4

DN9 Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	150 A / 415 V
Load-break capability according to EN 60947-3	
AC-22	150 A / 400 V

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	19 94 033
380 - 415 V	3P+E	19 94 013

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	19 98 033
380 - 415 V	3P+E	19 98 013

Other voltages and polarities are available on request (See p. 5)

Boxes

Cable gland not included



Wall box +
metal sleeve 20°



Wall box +
metal sleeve 70°



Wall box +
metal sleeve 30°



Wall box +
straight metal sleeve

Entry				
M40		87 9A 053 420	19 9A 653 420	19 9A 095 420
M50	19 9A 053	87 9A 053	19 9A 653	19 9A 095
M63		87 9A 053 463	19 9A 653 463	19 9A 095 463

Sleeves



Inclined
metal 30°



Inclined
metal 70°



Straight
metal

19 9A 027

87 9A 087

19 9A 127

Handles



Straight
elastomere



Straight poly
wit métal cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

25 - 35 mm	65 9A 013 D35	35 - 48 mm	61 9A 253 63M	22 - 32 mm	19 9A 953 40M	M63	61 9A 253 463
35 - 45 mm	65 9A 013 D45			34 - 44 mm	19 9A 963		
45 - 49 mm	65 9A 013 D49			45 - 48 mm	19 9A 953 63M		

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for polyester latch	Recept no. + 834
IP66/IP67 watertightness (recept & inlet)	Part no. + 677



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)



Stop button
Receptacle no +
453



IP54 inlet cap
19 9A 126



Closing mechanism
Draw Lever only: 19 9A 376
Draw plate only: 19 9A 396

Receptacle no +
844

Durability in harsh environments

The DN Deconnector is designed and built to resist in harsh environments.

Its metal body resists mechanical abuse and corrosion; its components are dimensioned to be durable in heavy industry and mines. The interior mouldings in both outlet and inlet protect from dust and big particles.



PNC-PN

From 16 to 30 A

- All industries
- Compact
- IP66/IP67 as standard feature or IP68 according to specification
- Safe and simple connection

The PNC is a compact and rugged connector designed for all types of aggressive environments (humidity, corrosion, pollution) found in many industrial sectors including transport infrastructure.

Meltric's technically advanced silver-nickel butt contact system assures next level performance no matter the conditions.

Electrical features

	PNC
Ambient temperature	-40 °C to +100 °C
Rated current (In)	4-20 mA / 16 A
Maximum Voltage	480 V
IP Protection	IP66/IP67



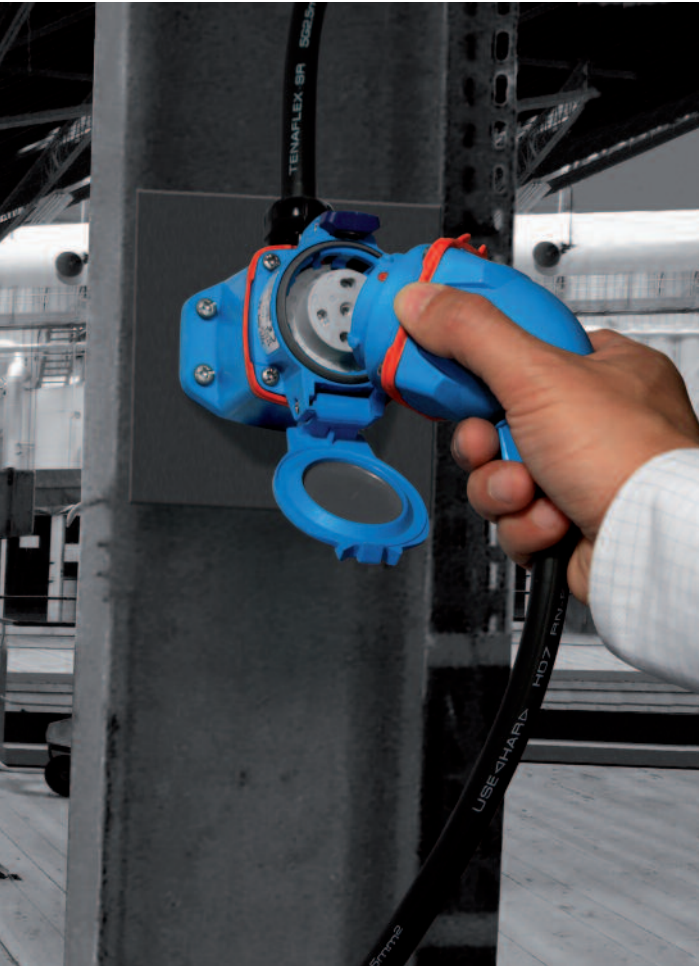
Regulatory features

PNC connectors comply with :

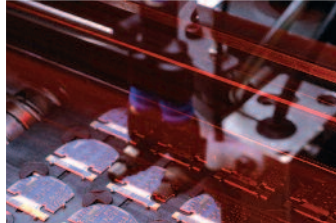
- The requirements of IEC 61984, IEC 60529, IEC 62262, IEC 68-2-6 International standards,
- The European Low Voltage Directive 2006/95/CE,
- The French NF C 15-100 standard,
- The French decree n°88-1056 dated 14th November 1988,
- The decrees relating to workers' protection in Belgium, Spain and Italy.

SPECIFICATION

IP66/IP67, IP68 according to specification plug and receptacle with silver-nickel butt contacts with metal braid, comply with BECMA international standard.



COMPACT INDUSTRIAL PLUG AND RECEPTACLE



Measuring Equipment



Food industry



Equipment for tunnels



Port Facilities

PNC-PN

The PN industrial plug and receptacle offer similar benefits to Deconnectors: automatically watertight, dual-voltage, resistance to corrosion and reliability of the connection thanks to MARECHAL's butt-contact technology. In addition, it is compacter

Electrical features

	PN
Ambient temperature	-40 °C to +60 °C
Rated current (In)	30 A
Maximum Voltage	500 V
Keying positions (°)	16
IP Protection	IP66 / IP67

(°) To discriminate between different power supplies and applications

Operation



To connect the plug: align the red dots on the plug and the receptacle, then turn the plug anticlockwise to connect.



To remove the plug: turn the plug clockwise and withdraw.

Regulatory features

PN plugs and receptacles comply with :

- CEI 60309-1 European and International standard (plugs and receptacles for industrial purposes),
- UL 1682 US standard,
- The European Low Voltage Directive 2006/95/CE,
- The French NF C 15-100 standard,
- The French decree n°88-1056 dated 14th November 1988,
- The decrees relating to workers' protection in Belgium, Spain and Italy.

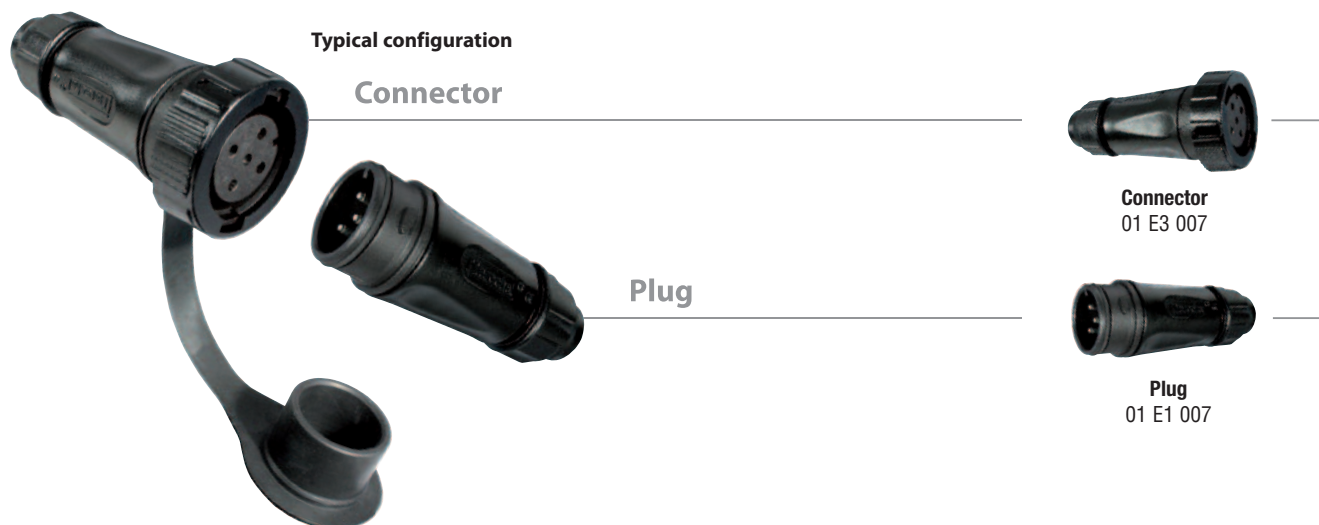
Also certified by VERITAS LCIE, UL, AS, VDE and CSA (French, US, Australian, German & Canadian) inspection laboratories.



UNDERWRITERS
LABORATORIES
INC.



STANDARDS
AUSTRALIA



Electrical characteristics:

Voltage	480 V
Impulse withstand voltage	5 kV / Pollution degree 3
Contact resistance	< 2mΩ
Permitted current range	4-20 mA / 16 A
Polarity	3P+N+E
Conductors accepted	From 0,75 mm ² to 2,5 mm ² - Mechanical type
Cable diameter	From 11 to 15 mm (lower diameter according to specification)

Mechanical characteristics:

Casing & insulator	Glassfibre reinforced thermoplastic UL94 V-0
Butt contacts	Copper alloy with silver-nickel tips
Contact protection	Tinning
Load cycles	More than 2000 cycles
Resistance to shock	IK08
Vibration	Frequency 5-1000 Hz, 1g (90 minutes on each critical frequency) according to IEC 6068-2-6

Climatic characteristics:

Ambient temperature	-40 °C to +100 °C
IP protection	IP66/IP67 (IP68 on request)
Salt, Fog performance	200 h minimum not connected - More than 1000 h connected
Resistance to fluids	Motor oils, petrol, fats, detergents...

Receptacle (female) PBT



Voltage Max	Polarity	Part no.
480 V	5P	01 E4 007

Inlet (male) PBT



Voltage Max	Polarity	Part no.
480 V	5P	01 E8 007

Connector (female) PBT



Voltage Max	Polarity	Part no.
480 V	5P	01 E3 007

Plug (male) PBT



Voltage Max	Polarity	Part no.
480 V	5P	01 E1 007

Receptacle cap



Part no.
01 EA 125

Straight adapter

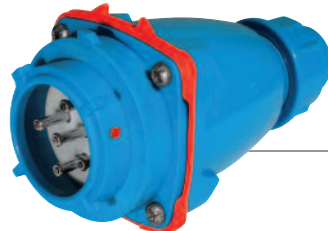
Part no.
01 EA 127



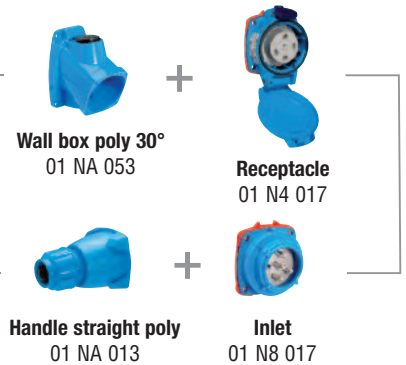


Typical configuration

Wall mounted receptacle



Plug



Main features:

Rated current (with wiring according to standard)	30 A
Maximum voltage	500 V
IP protection lid closed	IP66 / IP67
IP protection connected plug	IP66 / IP67
Resistance to shocks (poly casing)	IK08
Resistance to shocks (metal casing)	IK09

Ambient temperature	-40 °C à +60 °C
Flexible wiring (min-max)	1 - 6 mm ²
Stranded wiring (min-max)	1,5 - 10 mm ²
Other wiring on request	
Keying positions	16

Receptacle (female) PBT



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	01 N4 08A
190 - 230 V	3P+E	01 N4 033
220 - 250 V	1P+N+E	01 N4 015
380 - 440 V	3P+E	01 N4 013
380 - 440 V	3P+N+E	01 N4 017
480 - 500 V	3P+E	01 N4 093
480 - 500 V	3P+N+E	01 N4 097

Inlet (male) PBT



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	01 N8 08A
190 - 230 V	3P+E	01 N8 033
220 - 250 V	1P+N+E	01 N8 015
380 - 440 V	3P+E	01 N8 013
380 - 440 V	3P+N+E	01 N8 017
480 - 500 V	3P+E	01 N8 093
480 - 500 V	3P+N+E	01 N8 097

Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle:
A 5 pin 400 V 3pne receptacle will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug



Version with self-closing lid (IP55):
Choose from the part numbers and change letter N for an S.

Receptacle (female) metal



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	09 N4 08A
190 - 230 V	3P+E	09 N4 033
220 - 250 V	1P+N+E	09 N4 015
380 - 440 V	3P+E	09 N4 013
380 - 440 V	3P+N+E	09 N4 017
480 - 500 V	3P+E	09 N4 093
480 - 500 V	3P+N+E	09 N4 097

Inlet (male) metal



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	09 N8 08A
190 - 230 V	3P+E	09 N8 033
220 - 250 V	1P+N+E	09 N8 015
380 - 440 V	3P+E	09 N8 013
380 - 440 V	3P+N+E	09 N8 017
480 - 500 V	3P+E	09 N8 093
480 - 500 V	3P+N+E	09 N8 097



Certificate N°
FR 60037180-5371840

Boxes

Cable gland not included



Wall box
poly 30°



Wall box
poly straight



Wall box
metal straight



Wall box metal +
sleeve metal 45°



Wall box poly 70°
volume

Entry					
M20	01 NA 053	01 NA 055	09 NA 055	09 NA 653	Not drilled and without cable gland Part no. 51 AA 058
M25				09 NA 653 418	
M32				09 NA 653 419	

Sleeves



Inclined
poly 30°



Inclined
métal 30°



Inclined
poly 70°

01 NA 027

09 NA 027

51 AA 757

Handles



Straight
poly



Angled
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

9-18 mm	01 NA 013	01 NA 313	5-12 mm	01 NA 753	7-13 mm	09 NA 963	M20	01 NA 253 417
			9-18 mm	01 NA 253 25P	8-16 mm	09 NA 953 25M	M25	01 NA 253 418
			14-25 mm	01 NA 253 32P	16-24 mm	09 NA 953 32M	M32	01 NA 253 419
5-21 mm	61 1A 413							

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
IP55 self-closing lid	Replace N by S
Eg : 400 V 3P+N+E poly = 01 S4 017	



Locking with 3
padlocks (Ø 4 mm)
without shaft
(padlocks
not supplied)
Recept no. + 843



Screw locking imprint
BTR 2,5
Recept no. + 22



IP67 inlet cap
01 NA 126



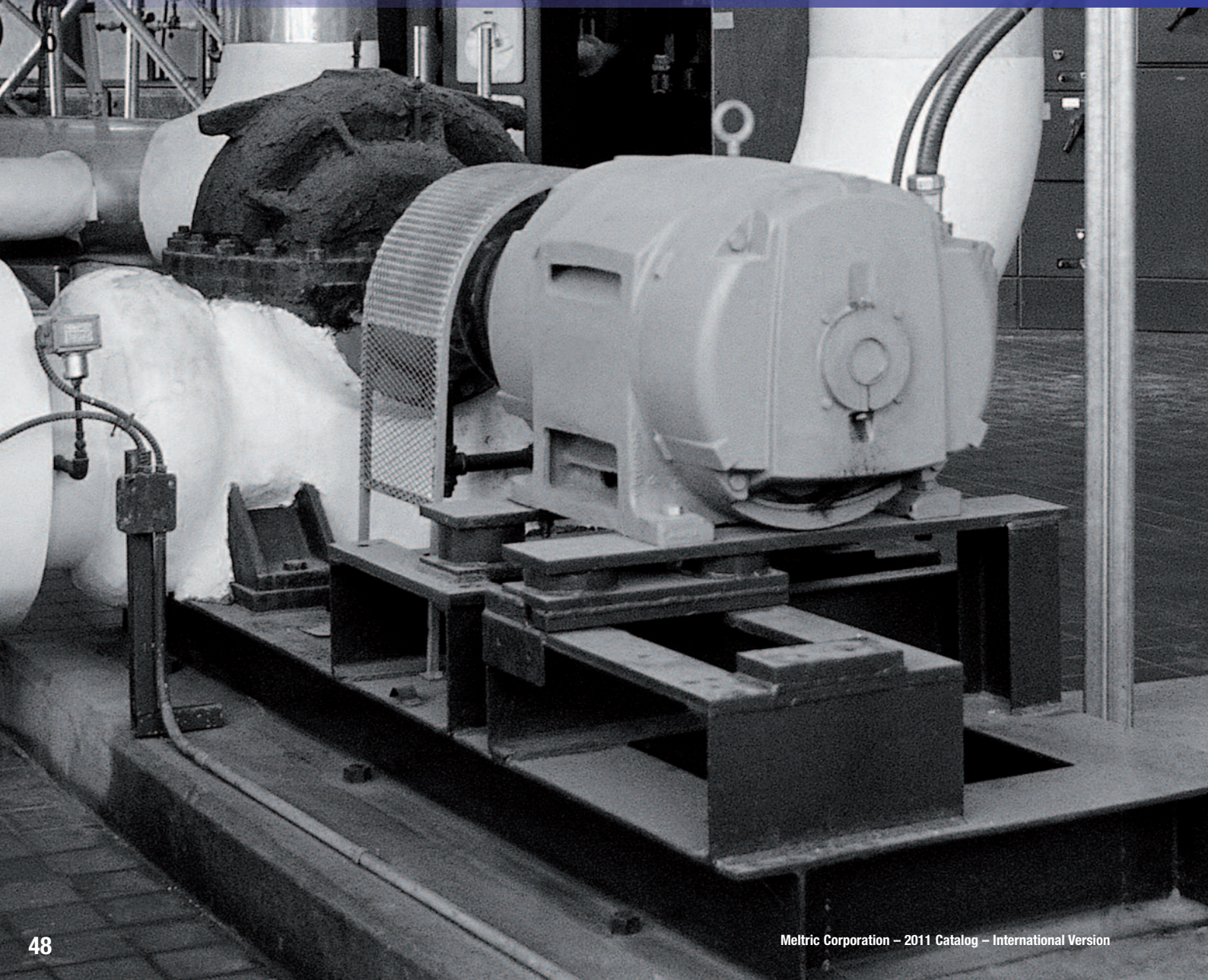
Reversed interior and
contacts
(inlet cap is included)
Inlet no. + 001
Recept no. + 001

Decontactors & connectors for specific motor connections

Star-delta

DB - disconnectable motor switches

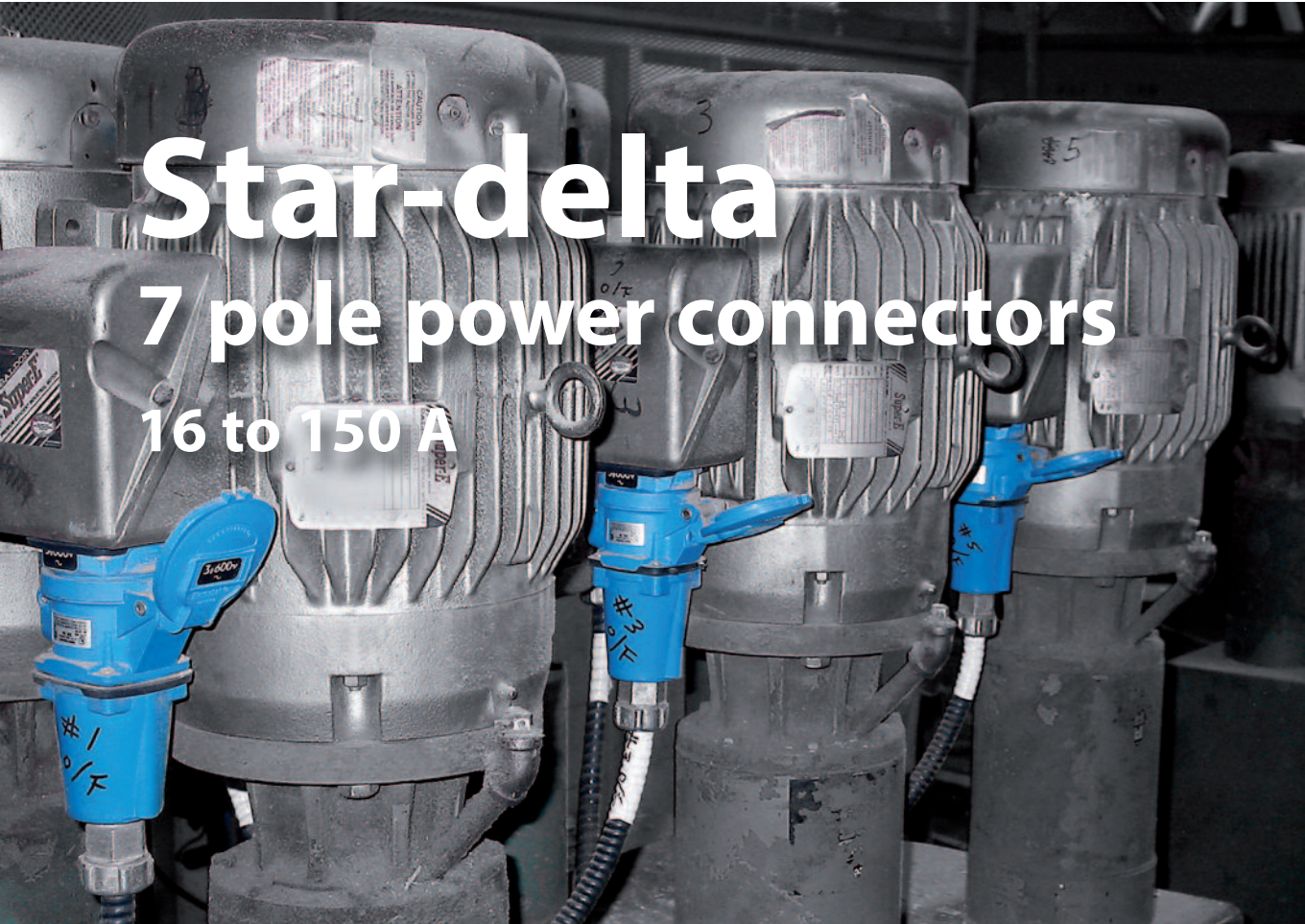
Note : DSN, DS and DN decontactors are also used to connect motors. The two product families described here are designed for more specific motor applications



Star-delta

7 pole power connectors

16 to 150 A



- Star-delta motor connections
- Motor connections with two speed regimes
- Simpler and safer than hard wiring
- Watertight and resistant to overloads

Electrical features

	PN 7C	DN 20C	DN 9C	DSN 7C3	DS 7C3	DN 7C6	DS 7C9
I _{max} per phase	16 A	25 A	30 A	32 A	50 A	90 A	150 A
Maximum Voltage	500 V	415 V	415 V	500 V	500 V	415 V	500 V
Auxiliary contacts (max.)	0	3	2	0	3	0	2
Same dimensions as	PN	DN6	DN1	DSN3	DS6	DN6	DS2
AC-22 switching capability	-	25 A / 415 V	30 A / 415 V	32 A / 500 V	50 A / 500 V	90 A / 415 V	-
Keying positions (°)	5	4	2	-	5	-	-
Ambient temperature	-40 °C to +60 °C						
Wiring (terminals)	to be screwed						

(°) To discriminate between different power supplies and applications

When a motor starts, the brief overload generated is many times greater than the nominal current. While this overload should not affect properly designed motors, it could be damaging to most connectors.

Thanks to its silver-nickel butt-contact technology, the decontactor withstands these high and repeated overloads without over-heating or change in its performance. The decontactor is thus ideally suited for motor connections, even for motors that have to start frequently.

7 pole connectors

Meltric Decontactors make it possible to connect and disconnect motors in total safety.



Typical configurations



**Wall mounted
Receptacle**



Connector



Plug



**Wall mounted
appliance inlet**

	Max Volt. / Amp	Configuration	Part no.			
PN 7C - 16 A	500 / 16	Receptacle 6P+E	01 P4 061	01 P4 061	01 P8 061	01 P8 061
		Accessory	09 NA 653	01 NA 013	01 NA 013	01 NA 027
DN 20C - 25 A	400 / 25	Receptacle 6P+E+3 aux.	19 64 091 263	19 64 091 263	19 68 091 263	19 68 091 263
		Accessory	87 9A 053	65 9A 013 D25	65 9A 013 D25	87 9A 087
DN 9C - 30 A	400 / 30	Receptacle 6P+E	19 14 061	19 14 061	19 18 061	19 18 061
		Receptacle 6P+E+2 aux.	19 14 081 312	19 14 081 312	19 18 081 312	19 18 081 312
		Accessory	87 3A 053	19 1A 013	19 1A 013	87 3A 087
DSN 7C3 - 32 A	500 / 32	Receptacle 6P+E	61 34 061	61 34 061	61 38 061	61 38 061
		Accessory	51 BA 058	61 3A 013	61 3A 013	61 3A 027
DS 7C3 - 50 A	500 / 50	Receptacle 6P+E	39 34 561	39 34 561	39 38 561	39 38 561
		Receptacle 6P+E+2 aux.	39 34 561 172	39 34 561 172	39 38 561 172	39 38 561 172
		Receptacle 6P+E+3 aux.	39 34 561 263	39 34 561 263	39 38 561 263	39 38 561 263
		Accessory	87 6A 053	31 6A 013	31 6A 013	87 6A 087
DN 7C6 - 90 A	400 / 90	Receptacle 6P+E	19 64 061 ISV	19 64 061 ISV	19 68 061 ISV	19 68 061 ISV
		Accessory	87 9A 053	65 9A 013 D45	65 9A 013 D45	87 9A 087
DS 7C9 - 150 A	500 / 150	Receptacle 6P+E	39 94 061	39 94 061	39 98 061	39 98 061
		Receptacle 6P+E+2 aux.	39 94 061 172	39 94 061 172	39 98 061 172	39 98 061 172
		Accessory	39 2A 053	39 2A 013	39 2A 013	39 2A 027

PN 7C

COMPACT PLUG & RECEPTACLE

GRP & METAL
CASING

up to 16 A

IP66
IP67



Typical configuration

Wall mounted receptacle



Plug



Wall box metal 45°
09 NA 653 418

+



Receptacle
01 P4 061



Handle poly straight
01 NA 013

+



Inlet
01 P8 061

Connector up to
7 poles

UL certified



Main features:

Rated current (with wiring according to standard)	16 A
Maximum voltage	500 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks (poly casing)	IK08
Resistance to shocks (metal casing)	IK09

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	1 - 4 mm²
Stranded wiring (min-max)	1 - 6 mm²
Wiring (terminals)	to be screwed
Keying positions	5

Receptacle (female) PBT



Max Volt. / Amp	Polarity	Part no.
500 / 16	6P+E	01 P4 061

Inlet (male) PBT



Max Volt. / Amp	Polarity	Part no.
500 / 16	6P+E	01 P8 061



Version with IP55 self-closing lid:
Choose your part-numbers
and replace the letter P with
the letter H.

Receptacle (female) metal



Max Volt. / Amp	Polarity	Part no.
500 / 16	6P+E	09 P4 061

Inlet (male) metal



Max Volt. / Amp	Polarity	Part no.
500 / 16	6P+E	09 P8 061

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the PN. See page 47.

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18



Locking with 3
padlocks (Ø 4 mm)
without shaft
(padlocks
not supplied)
Recept no. + 843



Screw locking imprint
BTR 2,5
Recept no. + 22



IP67 inlet cap
01 NA 126

DN 20C DECONTACTOR™

METAL CASING — up to **25 A** — **IP55**



Typical configuration

Wall mounted receptacle



Plug



Wall box metal +
sleeve metal 30°
19 6A 653 419



Receptacle
19 64 091 263



Handle straight
elastomere
65 9A 013 D25



Inlet
19 68 091 263

7 pole plug and receptacle for power supply to motors in star-delta modes, with integral load-break switch.

Main features:

Rated current (with wiring according to standard)	25 A
Maximum voltage	415 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	1 - 6 mm ²
Stranded wiring (min-max)	1,5 - 10 mm ²
Wiring (terminals)	to be screwed
Keying positions	4

DN20C Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	25 A / 415 V
Load-break capability according to EN 60947-3	
AC-22	25 A / 415 V

Receptacle (female)



Inlet (male)



Max Volt. / Amp	Polarity	Part no.	Max Volt. / Amp	Polarity	Part no.
415 / 25	6P+E+3 aux.	19 64 091 263	415 / 25	6P+E+3 aux.	19 68 091 263

For plugs and receptacles with auxiliary contacts: please contact us for more options

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DN6. See page 39.

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for metal latch	Recept no. + 834
IP66/IP67 watertightness (recept & inlet)	Part no. + 677



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)
Recept no + 844



Stop button
Recept no + 453



IP54 inlet cap
19 6A 126



Closing mechanism
19 6A 346

DN 9C

DECONTACTOR™

METAL CASING

up to **30 A** — **IP55**

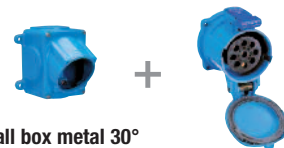


Typical configuration

Wall mounted receptacle



Plug



Wall box metal 30°
19 1A 653 419

Receptacle
19 14 081 312



Handle poly straight
19 1A 013

Inlet
19 18 081 312

7 pole plug and receptacle for power supply to motors in star-delta modes, with integral load-break switch.

Main features:

Rated current (with wiring according to standard)	30 A
Maximum voltage	415 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09
Resistance to shocks	-40 °C to +60 °C

Flexible wiring (min-max)	1 - 6 mm²
Stranded wiring (min-max)	1,5 - 10 mm²
Wiring (terminals)	to be screwed
Keying positions	2

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	30 A / 415 V
Load-break capability according to EN 60947-3	
AC-22	30 A / 415 V

DN9C Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Receptacle (female)



Inlet (male)



For plugs and receptacles with auxiliary contacts: please contact us for more options

Max Volt. / Amp	Polarity	Part no.
415 / 30	6P+E	19 14 061
415 / 30	6P+E+2 aux.	19 14 081 262

Max Volt. / Amp	Polarity	Part no.
415 / 30	6P+E	19 18 061
415 / 30	6P+E+2 aux.	19 18 081 262

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DN1. See page 35.

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
IP66/IP67 watertightness (recept & inlet)	Part no. + 677



Locking with shaft for 3 padlocks - Ø 8 mm (padlocks not supplied)

Recept no + 844



Stop button
Recept no + 453



IP54 inlet cap
19 1A 126



Rubber cover for metal latch
Recept no + 834

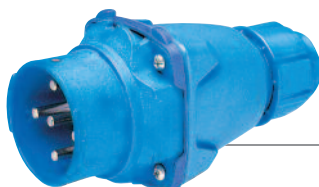
DSN 7C3 DECONTACTOR™

GRP CASING up to **32 A** **IP66**
IP67



Typical configuration

Wall mounted receptacle



Plug



Wall box poly 70°
51 BA 058



Receptacle
61 34 061



Handle poly with poly
cable gland
61 3A 253 32P



Inlet
61 38 061

7 pole plug and receptacle for power supply to motors in star-delta modes, with integral load-break switch.

Main features:

Rated current (with wiring according to standard)	32 A
Maximum voltage	500 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK08

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	2,5 - 6 mm²
Stranded wiring (min-max)	2,5 - 10 mm²
Wiring (terminals)	to be screwed

The DSN7C3 Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	32 A / 500 V
Load-break capability according to EN 60947-3	
AC-22	32 A / 500 V

Receptacle (female)



Inlet (male)



For plugs and receptacles with auxiliary contacts: please contact us for more options

Max Volt. / Amp	Polarity	Part no.	Max Volt. / Amp	Polarity	Part no.
500 / 32	6P+E	61 34 061	500 / 32	6P+E	61 38 061

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DSN3. See page 13.

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18



Locking with shaft for 3 padlocks - Ø 4 mm (padlocks not supplied)
Recept no + 844



Stop button
Receptacle no + 453



IP67 inlet cap
61 3A 126



Closing mechanism (finger draw plates sold per unit)
61 3A 346

DS 7C3 DECONTACTOR™

GRP & METAL
CASING

up to **50 A** — **IP55**



Typical configuration

Inclined receptacle



Fiche



Sleeve poly 70°
51 DA 757



Receptacle
31 34 561



Handle poly straight
31 6A 013



Inlet
31 38 561

7 pole plug and receptacle for power supply to motors in star-delta modes, with integral load-break switch.

Main features:

Rated current (with wiring according to standard)	50 A
Maximum voltage	500 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks (poly casing)	IK08
Resistance to shocks (metal casing)	IK09

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	2,5 - 10 mm²
Stranded wiring (min-max)	2,5 - 16 mm²
Wiring (terminals)	to be screwed
Keying positions	5

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	50 A / 500 V
Load-break capability according to EN 60947-3	
AC-22	50 A / 500 V

The DS7C3 Decontacteur outperforms the endurance and load-break requirements of EN 60309-1.

Receptacle (female) metal



Inlet (male) metal



For plugs and receptacles with auxiliary contacts: please contact us for more options

Max Volt. / Amp	Polarity	Part no.
500 / 50	6P+E	39 34 561
500 / 50	6P+E+2 aux.	39 34 561 172
500 / 50	6P+E+3 aux.	39 34 561 263

Max Volt. / Amp	Polarity	Part no.
500 / 50	6P+E	39 38 561
500 / 50	6P+E+2 aux.	39 38 561 172
500 / 50	6P+E+3 aux.	39 38 561 263

For GRP casing, replace 39 on part no. by 31. Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DS6. See page 23.

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for polyester latch	Recept no. + 833
IP66/IP67 watertightness (recept & inlet)	Part no. + 600



Locking with shaft for 3 padlocks - Ø 8 mm (padlocks not supplied)

Recept no + 844



Stop button
Receptacle no + 453



IP67 inlet cap
31 6A 126



Self-closing lid for inlet
31 6A 226

DN7C6 DECONTACTOR™

METAL CASING up to **90 A** IP55



Exemple de configuration :

Wall mounted receptacle



Plug



Wall box metal 20°
19 6A 053



Receptacle
19 64 061 ISV



Handle straight elast.
65 9A 013D45



Inlet
19 68 061 ISV

7 pole plug and receptacle for power supply to motors in star-delta modes, with integral load-break switch.

Main features:

Rated current (with wiring according to standard)	90 A
Maximum voltage	415 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	10 - 25 mm ²
Stranded wiring (min-max)	10 - 35 mm ²
Wiring (terminals)	to be screwed
Keying positions	-

DN7C6 Decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	90 A / 415 V
Load-break capability according to EN 60947-3	
AC-22	90 A / 415 V

Receptacle (female)



Inlet (male)



For plugs and receptacles: please contact us for more options

Max Volt. / Amp	Polarity	Part no.	Max Volt. / Amp	Polarity	Part no.
415 / 90	6P+E	19 64 061 ISV	415 / 90	6P+E	19 68 061 ISV

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DN6. See page 39.

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for metal latch	Recept no. + 834
IP66/IP67 watertightness (recept & inlet)	Part no. + 677



Locking with shaft for 3 padlocks - Ø 8 mm (padlocks not supplied)
Recept no + 844



Stop button
Recept no + 453



IP54 inlet cap
19 6A 126



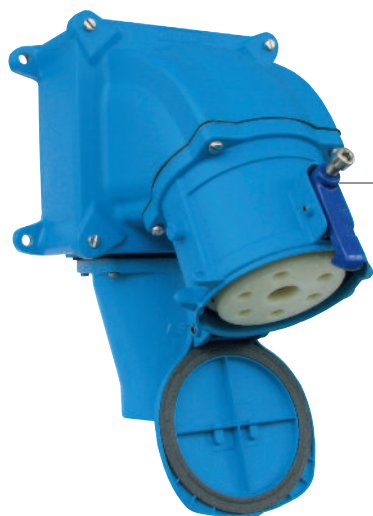
Closing mechanism
19 6A 346

DS 7C9

CONNECTOR

METAL CASING

up to **150 A** — **IP55**

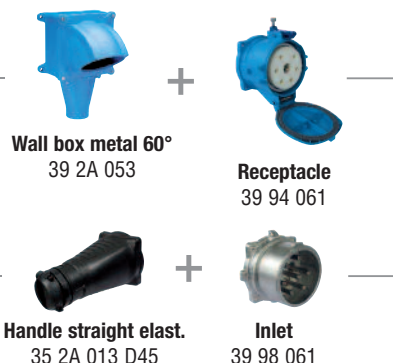


Exemple de configuration :

Wall mounted receptacle



Plug



7 pole plug and receptacle for power supply to motors in star-delta modes equipped with a locking screw to prevent accidental disconnection of the plug in charge.

Main features:

Rated current (with wiring according to standard)	150A
Maximum voltage (with Earth contact)	500 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks (metal casing)	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	16 - 50 mm ²
Stranded wiring (min-max)	16 - 70 mm ²
Wiring (terminals)	to be screwed
Keying positions	-

Receptacle (female)



Inlet (male)



For plugs and receptacles with auxiliary contacts: please contact us for more options

Max Volt. / Amp	Polarity	Part no.
500 / 150	6P+E	39 94 061
500 / 150	6P+E+2 aux.	39 94 061 172

Max Volt. / Amp	Polarity	Part no.
500 / 150	6P+E	39 98 061
500 / 150	6P+E+2 aux.	39 98 061 172

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DS2. See page 29.

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
IP66/IP67 watertightness (recept & inlet)	Part no. + 600



Locking with shaft for 3 padlocks - Ø 8 mm (padlocks not supplied)

Recept no + 844



Stop button
Receptacle no + 453



IP67 inlet cap
31 2A 126



Rubber cover for metal latch
Recept no + 835

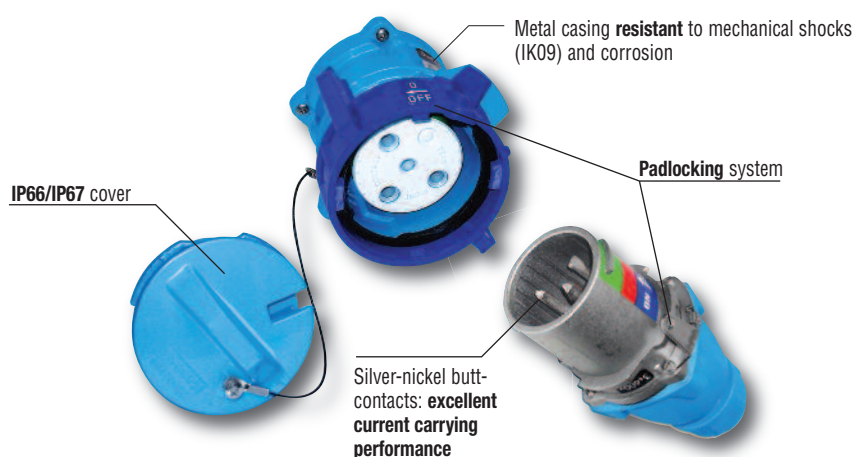
DB

7,5 kW
22 kW
45 kW

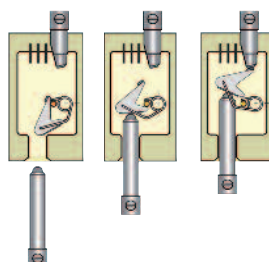
- AC-3 motor switch
- Frequent motor starts
- IP66/IP67 as standard feature
- Replace systems comprising a switch and a connector

DB disconnectable motor switches combine the functions of switch-engine cutoff switch and plug and receptacle. They guarantee the safety of persons during an operation on the load (motor load or highly inductive).

Mechanical features

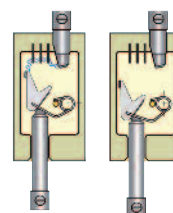


Connection:



Under spring pressure, the intermediate part escapes from the stop (yellow) and rocks to connect with the live receptacle contact and produce independent making. The padlock system prevents accidental pull-out of the plug.

Disconnection:



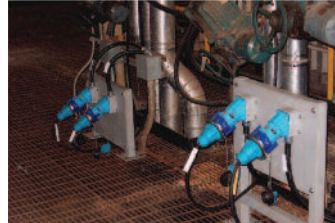
When the padlock is freed it is possible to pull out the plug. Under spring pressure, the intermediate part rocks from the live receptacle contact and the arc is split by the three blades. Arcing is thus reduced by this independent break.

SPECIFICATION

IP66/IP67 disconnectable motor switch - AC3 utilization category according to IEC / EN 60947-3 standard.



LOAD-BREAK SEPARABLE MOTOR SWITCH



Pumps connection



Pumps in wet atmosphere



Military application



External power supply for water treatment

Electrical features

AC-3 motor switch

	DB3	DB6	DB9
AC-3 load-break capability	7,5 kW	22 kW	45 kW
I _{max}	40 A	75 A	125 A
Maximum Voltage	690 V	690 V	690 V
Casing material	metal	metal	metal
Keying positions (°)	24	24	24
Ambient temperature	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C
Short-circuit current I _{cc}	200 kA	200 kA	200 kA

(°) To discriminate between different power supplies and applications

Regulatory features

DB Decontactors comply with:

- The European Low Voltage Directive 2006/95/CE,
- The European 'Machine Directive' regarding equipment isolation,
- The French decree n°88-1056 dated 14th November 1988,
- The French NF C 15-100 standard,
- The decrees relating to workers' protection in Belgium, Spain and Italy,
- CEI 60309-1 & CEI 60309-4 European and International standards (plugs and receptacles for industrial purposes)
- The UL 1682, UL 2682 and UL 98/508 standards
- The load breaking capacity according to utilisation category AC-3 of EN 60947-3 switch rated standard.

Also certified by VERITAS LCIE, UL, AS, VDE and CSA (French, Us, Australian, German & Canadian) and by BUREAU VERITAS MARINE inspection laboratories.



UNDERWRITERS
LABORATORIES
INC.



STANDARDS
AUSTRALIA

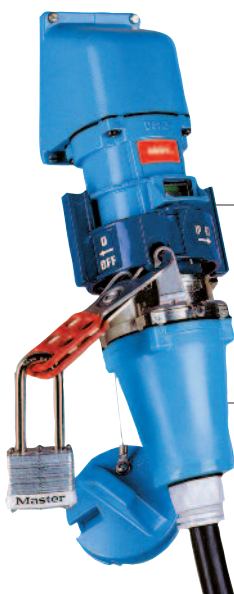
DB3

DECONTACTOR™ for motors

METAL CASING

up to **40 A**
& **7,5 kW**

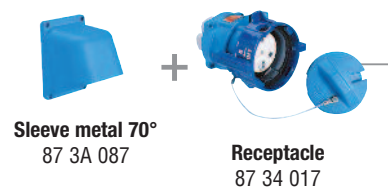
IP66
IP67



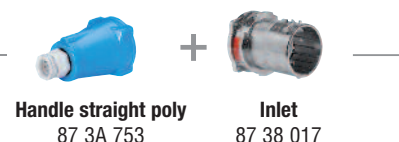
AC-3 motor switch
according to EN 60947-3
switch standard

Typical configuration

Inclined receptacle



Plug



Main features:

Rated current (with wiring according to standard)	40 A
Maximum voltage	690 V
IP protection lid closed	IP66 / IP67
IP protection connected plug	IP66 / IP67
Resistance to shocks	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	2,5 - 6 mm ²
Stranded wiring (min-max)	2,5 - 10 mm ²
Pre-wired auxiliary contacts (5A)	1,5 mm ²
Keying positions	24

Load-break capability of the DECONTACTOR™:

Comply with EN 60309-1 40 A / 690 V

Rated powers (AC-3 load-breaking capacity according to EN 60947-3):

3 kW up to 230 V - 1P
5,5 kW up to 230 V - 3P
7,5 kW up to 400 V - 3P
7,5 kW up to 500 V - 3P
7,5 kW up to 690 V - 3P

Short-circuit current I_{cc} 200 kA

Receptacle (female)



Other voltages and polarities
are available on request
(See p. 5)

Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 34 033
220 - 250 V	1P+N+E	87 34 015
380 - 440 V	3P+E	87 34 013
380 - 440 V	3P+N+E	87 34 017
660 - 690 V	3P+E	87 34 193
660 - 690 V	3P+N+E	87 34 197

Receptacle with auxiliary contacts:

With 2 auxiliary contacts (5 A / 400 V) Recept no. + 172

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 38 033
220 - 250 V	1P+N+E	87 38 015
380 - 440 V	3P+E	87 38 013
380 - 440 V	3P+N+E	87 38 017
660 - 690 V	3P+E	87 38 193
660 - 690 V	3P+N+E	87 38 197

Inlet with auxiliary contacts:

With 2 auxiliary contacts (5 A / 400 V) Inlet no. + 172

Boxes

Cable gland not included



Wall box +
sleeve metal 70°



Wall box +
sleeve metal 30°



Wall box +
straight metal sleeve

Entry

M20	87 3A 053 417	87 3A 653 417	87 3A 095 417
M25	87 3A 053	87 3A 653	87 3A 095
M32	87 3A 053 419	87 3A 653 419	87 3A 095 419
M40	87 3A 053 420	87 3A 653 420	87 3A 095 420

It is possible to drill several entries for PE to have a separate cable for the auxiliary.

Sleeves



Inclined
metal 70°



Inclined
metal 30°



Straight
metal

87 3A 087

39 3A 027

87 3A 127

Handles



Straight
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

10-30 mm	87 3A 013	5-12 mm	87 3A 253 20P	7-13 mm	87 3A 953 20M	M20	87 3A 253 417
		9-18 mm	87 3A 753	8-16 mm	87 3A 963	M25	87 3A 253 418
		14-25 mm	87 3A 253 32P	16-24 mm	87 3A 953 32M	M32	87 3A 253 419
		18-32 mm	87 3A 253 40P	22-32 mm	87 3A 953 40M	M40	87 3A 253 420

Options & accessories



Padlocking device
from 1 to 6 padlocks
87 3A 541



Inlet cap
87 3A 126

Padlocking



From left to right:
Padlocked in OFF position
Padlocked in ON position
Receptacle padlocked with closed cover
Inlet padlocked

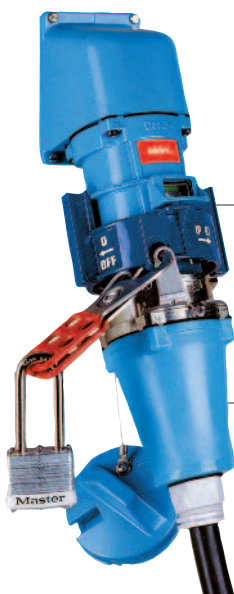
DB6

DECONTACTOR™ for motors

METAL CASING

up to **75 A**
& **22 kW**

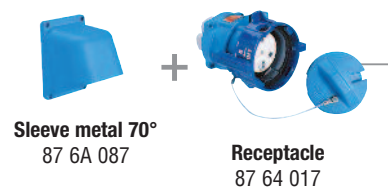
IP66
IP67



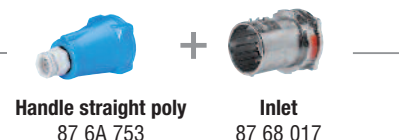
AC-3 motor switch
according to EN 60947-3
switch standard

Typical configuration

Inclined receptacle



Plug



Main features:

Rated current (with wiring according to standard)	75 A
Maximum voltage	690 V
IP protection lid closed	IP66 / IP67
IP protection connected plug	IP66 / IP67
Resistance to shocks	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	10 - 25 mm ²
Stranded wiring (min-max)	16 - 35 mm ²
Pre-wired auxiliary contacts (5A)	1,5 mm ²
Keying positions	24

Load-break capability of the DECONTACTOR™:

Comply with EN 60309-1	75 A / 690 V
Rated powers (AC-3 load-breaking capacity according to EN 60947-3):	

7,5 kW up to 230 V - 1P
11 kW up to 230 V - 3P
15 kW up to 400 V - 3P
15 kW up to 500 V - 3P
22 kW up to 690 V - 3P

Short-circuit current I _{cc}	200 kA
---------------------------------------	--------

Receptacle (female)



Inlet (male)



Other voltages and polarities
are available on request
(See p. 5)

Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 64 033
220 - 250 V	1P+N+E	87 64 015
380 - 440 V	3P+E	87 64 013
380 - 440 V	3P+N+E	87 64 017
660 - 690 V	3P+E	87 64 193
660 - 690 V	3P+N+E	87 64 197

Receptacle with auxiliary contacts:

With 2 auxiliary contacts (5 A / 400 V)	Recept no. + 172
---	------------------

Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 68 033
220 - 250 V	1P+N+E	87 68 015
380 - 440 V	3P+E	87 68 013
380 - 440 V	3P+N+E	87 68 017
660 - 690 V	3P+E	87 68 193
660 - 690 V	3P+N+E	87 68 197

Inlet with auxiliary contacts:

With 2 auxiliary contacts (5 A / 400 V)	Inlet no. + 172
---	-----------------

Boxes

Cable gland not included



Wall box metal +
metal sleeve 70°

Wall box +
metal sleeve 30°

Wall box +
straight metal sleeve

Entry

M25	87 6A 053 418	87 6A 653 418	87 6A 095 418
M32	87 6A 053 419	87 6A 653 419	87 6A 095 419
M40	87 6A 053	87 6A 653	87 6A 095
M50	87 6A 053 429	87 6A 653 429	87 6A 095 429

It is possible to drill several entries for PE to have a separate cable for the auxiliary.

Sleeves



Inclined
metal 70°

Inclined
metal 30°

Straight
metal

87 6A 087

39 6A 027

87 6A 127

Handles



Straight
poly

Straight poly
with poly cable gland

Straight metal
with metal cable gland

Straight poly without cable gland
with metric threaded entry

13-35 mm	87 6A 013	9-18 mm	87 6A 253 25P	8-16 mm	87 6A 953 25M	M25	87 6A 253 418
		14-25 mm	87 6A 253 32P	16-24 mm	87 6A 953 32M	M32	87 6A 253 419
		18-32 mm	87 6A 753	22-32 mm	87 6A 963	M40	87 6A 253 420
		24-38,5 mm	87 6A 253 50P	34-44 mm	87 6A 953 50M	M40	87 6A 253 429

Options & accessories



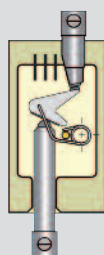
Padlocking device
from 1 to 6 padlocks
87 3A 541



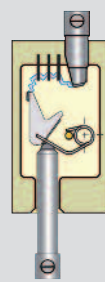
Inlet cap
87 6A 126

The DB's butt-contact technology

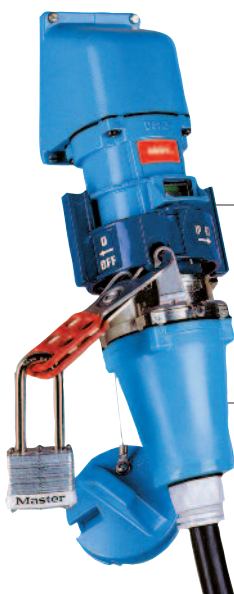
The DB's load-break capability is rated as AC-3 category motor switch and can make and break highly inductive loads. The two staged contacts are made with silver-nickel pads.



Under spring pressure, the intermediate part rocks to make the contact. The making speed is independent from plug operating speed.



When the plug is pulled out, the spring makes the intermediate part rock to separate from the contact. The three blades split the arc.



AC-3 motor switch
according to EN 60947-3
switch standard

Typical configuration

Inclined receptacle

Plug



Main features:

Rated current (with wiring according to standard) 125 A

Maximum voltage 690 V

IP protection lid closed IP66 / IP67

IP protection connected plug IP66 / IP67

Resistance to shocks IK09

Ambient temperature -40 °C à +60 °C

Flexible wiring (min-max) 16 - 50 mm²

Stranded wiring (min-max) 25 - 70 mm²

Pre-wired auxiliary contacts (5A) 1,5 mm²

Keying positions 24

Load-break capability of the DECONTACTOR™:

Comply with EN 60309-1

125 A / 690 V

Rated powers (AC-3 load-breaking capacity according to EN 60947-3):

15 kW up to 230 V - 1P

22 kW up to 230 V - 3P

30 kW up to 400 V - 3P

30 kW up to 500 V - 3P

45 kW up to 690 V - 3P

Short-circuit current I_{cc} 200 kA

Receptacle (female)



Inlet (male)



Other voltages and polarities
are available on request
(See p. 5)

Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 94 033
220 - 250 V	1P+N+E	87 94 015
380 - 440 V	3P+E	87 94 013
380 - 440 V	3P+N+E *	87 94 017
660 - 690 V	3P+E	87 94 193
660 - 690 V	3P+N+E	87 94 197

Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 98 033
220 - 250 V	1P+N+E	87 98 015
380 - 440 V	3P+E	87 98 013
380 - 440 V	3P+N+E *	87 98 017
660 - 690 V	3P+E	87 98 193
660 - 690 V	3P+N+E	87 98 197

Receptacle with auxiliary contacts:

With 4 auxiliary contacts (5 A / 400 V) Recept no. + 264

Inlet with auxiliary contacts:

With 4 auxiliary contacts (5 A / 400 V) Inlet no. + 264

* Auxiliary contacts non available for 3P+N+E configuration

Boxes

Cable gland not included



Wall box metal +
metal sleeve 70°

Wall box metal +
metal sleeve 30°

Wall box metal +
straight metal sleeve

Entry

M32	87 9A 053 419	87 9A 653 419	87 9A 095 419
M40	87 9A 053 420	87 9A 653 420	87 9A 095 420
M50	87 9A 053	87 9A 653	87 9A 095
M63	87 9A 053 463	87 9A 653 463	87 9A 095 463

It is possible to drill several entries for PE to have a separate cable for the auxiliary.

Sleeves



Inclined
metal 70°

Inclined
metal 30°

Straight
metal

87 9A 087

39 9A 027

87 9A 127

Handles



Straight
elastomere

Straight poly
with poly cable gland

Straight metal
with metal cable gland

Straight Poly without cable gland
with metric threaded entry

25-35 mm	65 9A 013 D35	35-48 mm	61 9A 253 63M	22-32 mm	87 9A 953 40M	M63	61 9A 253 463
35-45 mm	65 9A 013 D45			34-44 mm	87 9A 963		
45-49 mm	65 9A 013 D49			35-48 mm	87 9A 953 63M		

Options & accessories



Padlocking device
from 1 to 6 padlocks
87 3A 541



Inlet cap
87 9A 126

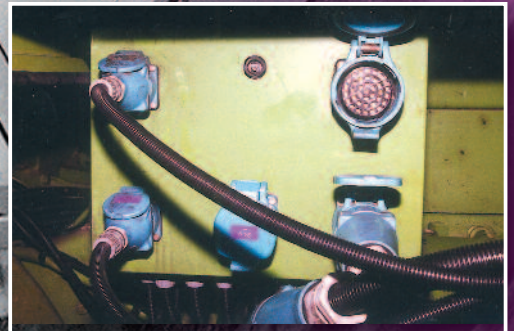
Breaking direct current at 125 A / 500 V

For applications in back-up circuit, DB9 can safely break high power direct currents: 125 A / 500 V d.c.

DB disconnectable switches have very high load break capability and offer an attractive solution to break under load and disconnect equipment. Please feel free to contact us for any special applications that require breaking under load.

Motor-switch + plug and receptacle

The DB is especially designed to supply power to motors and any highly inductive loads. Its AC-3 load-break capability guarantees user safety during intervention on equipment. The colour window and isolator function (physical separation) further enhance safety. The product complies with the European 'Machine Directive' and save installation cost by combining motor switch, isolator and connector.



Meltrac Corporation's multicontact connectors are used for signal and control applications such as temporary phone lines, control of overhead cranes. The solid silver-nickel contacts assure superior conductivity, electrical performance and durability. Also the materials used for the bodies resist extreme conditions in harsh environments.

Range Control and signal

PN 7C - From 6 to 7 contacts

DN 9C - From 6 to 9 contacts

PN 12C - From 6 to 12 contacts

DN 20C - From 10 to 20 contacts

DSN 24C - From 13 to 24 contacts

DSN 37C - From 25 to 37 contacts

MULTI

Electrical features

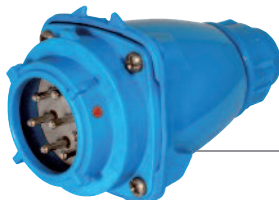
	PN 7C	DN 9C	PN 12C	DN 20C	DSN 24C	DSN 37C
Maximum no. of contacts	7	9	12	20	24	37
I _{max} per contact	25 A	30 A	10 A	25 A	5 A	5 A
Σ of contacts	100 A	210 A	100 A	350 A	120 A	185 A
Maximum voltage with Earth contact	500 V	415 V	500 V	415 V	415 V	415 V
Same dimensions as	PN	DN1	PN	DN6	DSN3	DSN6
Casing material	GRP or metal	metal	GRP or metal	metal	GRP	GRP or metal
Automatic watertightness	IP66/IP67	IP54	IP66/IP67	IP54	IP66/IP67	IP66/IP67
Keying positions (°)	5	2	6	4	3	3
Wiring (terminals)	to be screwed	to be screwed	to be soldered	to be screwed	to be soldered	to be soldered
Ambient temperature	-40 °C to +60 °C					

(°) To discriminate between different power supplies and applications

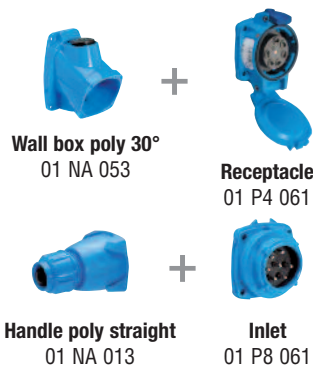


Typical configuration

Wall mounted receptacle



Plug



Connector up to
7 contacts

UL certified



UNDERWRITERS
LABORATORIES
INC.®

Main features:

Rated current/contact (wiring according to standard) 25 A	
Σ of currents (contacts)	≤ 100 A
Maximum voltage	500 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks (poly casing)	IK08

Resistance to shocks (metal casing)	IK09
Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	1 - 4 mm ²
Stranded wiring (min-max)	1 - 6 mm ²
Wiring (terminals)	to be screwed
Keying positions	5



Version with IP55 self-closing lid:
Choose your part-numbers
and replace the letter P with
the letter H.

Receptacle (female) PBT



Polarity	Maximum voltage	Part no.
5P	50 V	01 P4 050
6P	50 V	01 P4 060
7P	50 V	01 P4 070
4P+E	500 V	01 P4 041
5P+E	500 V	01 P4 051
6P+E	500 V	01 P4 061

Inlet (male) PBT



Polarity	Maximum voltage	Part no.
5P	50 V	01 P8 050
6P	50 V	01 P8 060
7P	50 V	01 P8 070
4P+E	500 V	01 P8 041
5P+E	500 V	01 P8 051
6P+E	500 V	01 P8 061

For plugs and receptacles:
please contact us for more
options

Receptacle (female) metal



Polarity	Maximum voltage	Part no.
5P	50 V	09 P4 050
6P	50 V	09 P4 060
7P	50 V	09 P4 070
4P+E	415 V	09 P4 041
5P+E	415 V	09 P4 051
6P+E	415 V	09 P4 061

Inlet (male) metal



Polarity	Maximum voltage	Part no.
5P	50 V	09 P8 050
6P	50 V	09 P8 060
7P	50 V	09 P8 070
4P+E	415 V	09 P8 041
5P+E	415 V	09 P8 051
6P+E	415 V	09 P8 061

Boxes

Cable gland not included



Wall box
poly 30°



Wall box
poly straight



Wall box
metal straight



Wall box metal +
sleeve metal 45°



Wall box poly 70°
volume

Entry

M20 01 NA 053

01 NA 055

09 NA 055

09 NA 653

Not drilled and
without cable gland

M25

09 NA 653 418

M32

09 NA 653 419

Part no 51 AA 058

Sleeves



Inclined
poly 30°



Inclined
metal 30°



Inclined
poly 70°

01 NA 027

09 NA 027

51 AA 757

Handles



Straight
poly



Angled
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

9-18 mm

01 NA 013

01 NA 313

5-12 mm 01 NA 753

7-13 mm 09 NA 963

M20 01 NA 253 417

9-18 mm 01 NA 253 25P

8-16 mm 09 NA 953 25M

M25 01 NA 253 418

14-25 mm 01 NA 253 32P

16-24 mm 09 NA 953 32M

M32 01 NA 253 419

5-21 mm

61 1A 413

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
IP55 automatic closing lid	Replace P by H



Locking with 3
padlocks (Ø 4 mm)
without shaft (padlocks
not supplied)

Recept no. + 843



Screw locking imprint
BTR 2,5
Recept no. + 22



IP67 inlet cap
01 NA 126



Reversed interior and contacts
(inlet cap is included)

Recept no.+ 001

Inlet no.+ 001



Typical configuration

Wall mounted receptacle



Plug



Wall box
metal 20°
19 1A 053



Receptacle
19 14 081



Handle poly straight
19 1A 013



Inlet
19 18 081

Connector up to
9 contacts

Load-break capability
according to EN 60309-1.

AC-22 at 25 A / 415 V

For plugs and receptacles:
please contact us for more
options

Main features:

Rated current (with wiring according to standard)	30 A
Σ of currents (contacts)	≤ 210 A
Maximum voltage	415 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	1 - 6 mm ²
Stranded wiring (min-max)	1,5 - 10 mm ²
Wiring (terminals)	to be screwed
Keying positions	2

Receptacle (female)



Polarity	Maximum voltage	Part no.
6P	50 V	19 14 060
7P	50 V	19 14 070
8P	50 V	19 14 080
9P	50 V	19 14 090
5P+E	415 V	19 14 051
6P+E	415 V	19 14 061
7P+E	415 V	19 14 071
8P+E	415 V	19 14 081

Receptacle with auxiliary contacts

Including 2 pilot contacts (5 A)	Recept no. + 262
Including 4 pilot contacts (5 A)	Recept no. + 264

Inlet (male)



Polarity	Maximum voltage	Part no.
6P	50 V	19 18 060
7P	50 V	19 18 070
8P	50 V	19 18 080
9P	50 V	19 18 090
5P+E	415 V	19 18 051
6P+E	415 V	19 18 061
7P+E	415 V	19 18 071
8P+E	415 V	19 18 081

Inlet with auxiliary contacts

Including 2 pilot contacts (5 A)	Inlet no. + 262
Including 4 pilot contacts (5 A)	Inlet no. + 264

Boxes

Cable gland not included



Wall box metal 20°



Wall box metal + metal sleeve 70°



Wall box metal + metal sleeve 30°



Wall box metal + straight metal sleeve

Entry				
M20	19 1A 053	87 3A 053 417	19 1A 653	19 1A 095
M25	19 1A 053 418	87 3A 053	19 1A 653 418	19 1A 095 418
M32	19 1A 053 419	87 3A 053 419	19 1A 653 419	19 1A 095 419
M40		87 3A 053 420	19 1A 653 420	19 1A 095 420

Sleeves



Inclined metal 30°



Inclined metal 70°



Straight metal

19 1A 027	87 3A 087	19 1A 127
-----------	-----------	-----------

Handles



Straight poly



Straight poly with poly cable gland



Straight metal with metal cable gland



Straight poly without cable gland with metric threaded entry

10-30 mm	19 1A 013	5-12 mm	19 1A 753	7-13 mm	19 1A 963	M20	19 1A 253 417
10-30 mm	19 1A 473 *	9-18 mm	19 1A 253 25P	8-16 mm	19 1A 953 25M	M25	19 1A 253 418
* With built-in finger draw plate (recommended for inline connections)		14-25 mm	19 1A 253 32P	16-24 mm	19 1A 953 32M	M32	19 1A 253 419
		18-32 mm	19 1A 253 40P	22-32 mm	19 1A 953 40M	M40	19 1A 253 420



Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for metal latch	Recept no. + 834
IP66/IP67 watertightness (recept & inlet)	Part no. + 677



Locking with shaft for 3 padlocks - Ø 8 mm (padlocks not supplied)

Recept no + 844

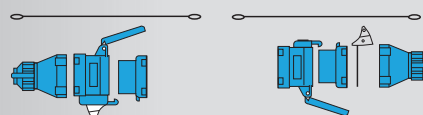


Stop button
Recept no + 453



IP54 inlet cap
19 1A 126

Self-ejecting



Self-ejecting systems prevent the rupturing of the electric circuit when a mobile device is removed before proper disconnection of the electrical supply. Meltric Corporation offers both mechanical and electrical ejecting systems for plug and coupler receptacle of all sizes.

For more detailed information, please see self-ejecting chapter of this catalogue.

PN 12C

MULTICONTACTS CONNECTOR
GRP & METAL CASING

up to
10 A

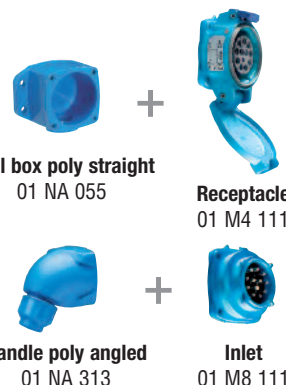
IP66
IP67

Typical configuration

Wall mounted receptacle



Plug



**Connector up to
12 contacts**

UL certified



Main features:

Rated current (with wiring according to standard)	10 A
Σ of currents (contacts)	≤ 100 A
Maximum voltage	500 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks (poly casing)	IK08

Resistance to shocks (metal casing)	IK09
Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	1 - 2,5 mm ²
Wiring (terminals)	to be soldered
Keying positions	6

For use in very aggressive environment and / or heavy use (several thousands of operations) :
Replace the letter M the letter L. The nominal increases to 2 A.



Version with IP55 self-closing lid:
Choose your part-numbers and replace the letter M with the letter T.

Receptacle (female) PBT



Polarity	Maximum voltage	Part no.
6P	50 V	01 M4 060
7P	50 V	01 M4 070
8P	50 V	01 M4 080
9P	50 V	01 M4 090
10P	50 V	01 M4 100
11P	50 V	01 M4 110
12P	50 V	01 M4 120
5P+E	500 V	01 M4 051
6P+E	500 V	01 M4 061
7P+E	500 V	01 M4 071
8P+E	500 V	01 M4 081
9P+E	500 V	01 M4 091
10P+E	500 V	01 M4 101
11P+E	500 V	01 M4 111

Inlet (male) PBT



Polarity	Maximum voltage	Part no.
6P	50 V	01 M8 060
7P	50 V	01 M8 070
8P	50 V	01 M8 080
9P	50 V	01 M8 090
10P	50 V	01 M8 100
11P	50 V	01 M8 110
12P	50 V	01 M8 120
5P+E	500 V	01 M8 051
6P+E	500 V	01 M8 061
7P+E	500 V	01 M8 071
8P+E	500 V	01 M8 081
9P+E	500 V	01 M8 091
10P+E	500 V	01 M8 101
11P+E	500 V	01 M8 111

Receptacle (female) metal



Polarity	Maximum voltage	Part no.
Replace "01" to "09" in the reference table above. Ex:		
6P	50 V	09 M4 060
etc.		

Inlet (male) metal



Polarity	Maximum voltage	Part no.
Replace "01" to "09" in the reference table above. Ex:		
6P	50 V	09 M8 060
etc.		

For plugs and receptacles:
please contact us for more
options

Boxes

Cable gland not included



Wall box
poly 30°



Wall box
poly straight



Wall box
metal straight



Wall box metal +
sleeve metal 45°



Wall box poly 70°
volume

Entry					
M20	01 NA 053	01 NA 055	09 NA 055	09 NA 653	Not drilled and without cable gland Part no 51 AA 058
M25				09 NA 653 418	
M32				09 NA 653 419	

Sleeves



Inclined
poly 30°



Inclined
metal 30°



Inclined
poly 70°



Inclined
metal 45°

01 NA 027

09 NA 027

51 AA 757

09 2A 027

Handles



Straight
poly



Angled
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

9-18 mm	01 NA 013	01 NA 313	5-12 mm 01 NA 753	7-13 mm 09 NA 963	M20 01 NA 253 417
			9-18 mm 01 NA 253 25P	8-16 mm 09 NA 953 25M	M25 01 NA 253 418
			14-25 mm 01 NA 253 32P	16-24 mm 09 NA 953 32M	M32 01 NA 253 419

5-21 mm

61 1A 413

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
IP55 automatic closing lid	Replace M by T



Locking with 3
padlocks (Ø 4 mm)
without shaft (padlocks
not supplied)

Recept no. + 843



Screw locking imprint
BTR 2,5
Recept no. + 22



IP67 inlet cap
01 NA 126



Reversed interior and contacts
(inlet cap is included)

Recept no.+ 001

Inlet no.+ 001

DN 20C

MULTICONTACTS CONNECTOR
METAL CASING

up to
25 A — **IP55**



Typical configuration

Wall mounted receptacle



Plug



Wall box +
sleeve metal 30°
19 6A 653



Receptacle
19 64 191



Handle poly
elastomere
65 9A 013 D35



Inlet
19 68 191

Connector up to
20 contacts

Main features:

Rated current (with wiring according to standard)	25 A
Σ of currents (contacts)	≤ 350 A
Maximum voltage	415 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	1 - 6 mm ²
Stranded wiring (min-max)	1,5 - 10 mm ²
Wiring (terminals)	to be screwed
Keying positions	4

For plugs and receptacles:
please contact us for more
options

Receptacle (female)



Polarity	Maximum voltage	Part no.
10P	50 V	19 64 100
11P	50 V	19 64 110
12P	50 V	19 64 120
13P	50 V	19 64 130
14P	50 V	19 64 140
15P	50 V	19 64 150
16P	50 V	19 64 160
17P	50 V	19 64 170
18P	50 V	19 64 180
19P	50 V	19 64 190
20P	50 V	19 64 200
9P+E	415 V	19 64 091
10P+E	415 V	19 64 101
11P+E	415 V	19 64 111
12P+E	415 V	19 64 121
13P+E	415 V	19 64 131
14P+E	415 V	19 64 141
15P+E	415 V	19 64 151
16P+E	415 V	19 64 161
17P+E	415 V	19 64 171
18P+E	415 V	19 64 181
19P+E	415 V	19 64 191

Inlet (male)



Polarity	Maximum voltage	Part no.
10P	50 V	19 68 100
11P	50 V	19 68 110
12P	50 V	19 68 120
13P	50 V	19 68 130
14P	50 V	19 68 140
15P	50 V	19 68 150
16P	50 V	19 68 160
17P	50 V	19 68 170
18P	50 V	19 68 180
19P	50 V	19 68 190
20P	50 V	19 68 200
9P+E	415 V	19 68 091
10P+E	415 V	19 68 101
11P+E	415 V	19 68 111
12P+E	415 V	19 68 121
13P+E	415 V	19 68 131
14P+E	415 V	19 68 141
15P+E	415 V	19 68 151
16P+E	415 V	19 68 161
17P+E	415 V	19 68 171
18P+E	415 V	19 68 181
19P+E	415 V	19 68 191

Boxes

Cable gland not included



**Wall box
metal 20°**



**Wall box +
sleeve metal 70°**



**Wall box +
metal sleeve 30°**



**Wall box +
straight metal sleeve**

Entry				
M32		87 9A 053 419	19 6A 653 419	19 6A 095 419
M40	19 6A 053	87 9A 053 420	19 6A 653 420	19 6A 095 420
M50		87 9A 053	19 6A 653	19 6A 095
M63		87 9A 053 463	19 6A 653 463	19 6A 095 463

Sleeves



**Inclined
metal 30°**



**Inclined
metal 70°**



**Straight
metal**

19 6A 027

87 9A 087

19 6A 127

Handles



**Straight
elastomere**



**Straight poly
with metal cable gland**



**Straight metal
with metal cable gland**



**Straight poly without cable gland
with metric threaded entry**

18-25 mm	65 9A 013 D25	35-48 mm	61 9A 253 63M	16-24 mm	19 6A 953 32M	M63	61 9A 253 463
25-35 mm	65 9A 013 D35			22-32 mm	19 6A 963		
35-45 mm	65 9A 013 D45			34-44 mm	19 6A 953 50M		

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Rubber cover for polyester latch	Recept no. + 834
IP66/IP67 watertightness (recept & inlet)	Part no. + 677



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not
supplied)

Recept no + 844



Stop button
Recept no + 453



IP54 inlet cap
19 6A 126



Closing mechanism
Draw Lever only: 19 6A 376
Draw plate only: 19 6A 396

DSN 24C

MULTICONTACTS CONNECTOR

GRP CASING

up to **5 A** — **IP66**
IP67



Typical configuration

Wall mounted receptacle



Plug



Wall box poly 70°
51 BA 058



Receptacle
61 04 231



Handle poly straight
61 3A 013



Inlet
61 08 231

Connector up to
24 contacts

Main features:

Rated current (with wiring according to standard)	5 A
Σ of currents (contacts)	≤ 120 A
Maximum voltage	415 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK08

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	1 - 2,5 mm²
Wiring (terminals)	to be soldered
Keying positions	3

Receptacle (female)



For use in very aggressive environment and / or heavy use (several thousands of operations) :
Replace the letter M the letter L. The nominal increases to 2 A.

For plugs and receptacles:
please contact us for more options

Polarity	Maximum voltage	Part no.
13P	50 V	61 04 130
14P	50 V	61 04 140
15P	50 V	61 04 150
16P	50 V	61 04 160
17P	50 V	61 04 170
18P	50 V	61 04 180
19P	50 V	61 04 190
20P	50 V	61 04 200
21P	50 V	61 04 210
22P	50 V	61 04 220
23P	50 V	61 04 230
24P	50 V	61 04 240
13P+E	415 V	61 04 131
14P+E	415 V	61 04 141
15P+E	415 V	61 04 151
16P+E	415 V	61 04 161
17P+E	415 V	61 04 171
18P+E	415 V	61 04 181
19P+E	415 V	61 04 191
20P+E	415 V	61 04 201
21P+E	415 V	61 04 211
22P+E	415 V	61 04 221
23P+E	415 V	61 04 231

Inlet (male)



Polarity	Maximum voltage	Part no.
13P	50 V	61 08 130
14P	50 V	61 08 140
15P	50 V	61 08 150
16P	50 V	61 08 160
17P	50 V	61 08 170
18P	50 V	61 08 180
19P	50 V	61 08 190
20P	50 V	61 08 200
21P	50 V	61 08 210
22P	50 V	61 08 220
23P	50 V	61 08 230
24P	50 V	61 08 240
13P+E	415 V	61 08 131
14P+E	415 V	61 08 141
15P+E	415 V	61 08 151
16P+E	415 V	61 08 161
17P+E	415 V	61 08 171
18P+E	415 V	61 08 181
19P+E	415 V	61 08 191
20P+E	415 V	61 08 201
21P+E	415 V	61 08 211
22P+E	415 V	61 08 221
23P+E	415 V	61 08 231

Boxes

Cable gland not included



Wall box
poly 30°



Wall box metal +
poly sleeve 30°



Wall box metal +
straight metal sleeve



Wall box poly 70°
volume

Entry				
M20	61 3A 053	61 3A 653	69 3A 095	Not drilled and without cable gland Part no 51 BA 058
M25	61 3A 083	61 3A 653 418	69 3A 095 418	
M32		61 3A 653 419	69 3A 095 419	
M40		61 3A 653 420	69 3A 095 420	

Sleeves



Inclined
poly 30°



Inclined
poly 70°



Straight
metal

61 3A 027

51 BA 757

69 3A 127

Handles



Straight
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

5-21mm	61 3A 013	5-12 mm	61 3A 753	7-13 mm	61 3A 963	M20	61 3A 253 417
		9-18 mm	61 3A 253 25P	8-16 mm	61 3A 953 25M	M25	61 3A 253 418
		14-25 mm	61 3A 253 32P			M32	61 3A 253 419
		18-32 mm	61 3A 253 40P			M40	61 3A 253 420

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18
Self-closing lid for inlet	31 1A 226



Locking with shaft for
3 padlocks - Ø 4 mm
(padlocks not
supplied)

Recept no + 844



Stop button
Recept no + 453



IP67 inlet cap
61 3A 126



Closing mechanism (finger
draw plates sold per unit)
61 3A 346

DSN 37C

MULTICONTACTS CONNECTOR
GRP CASING

up to
5 A — **IP66**
IP67

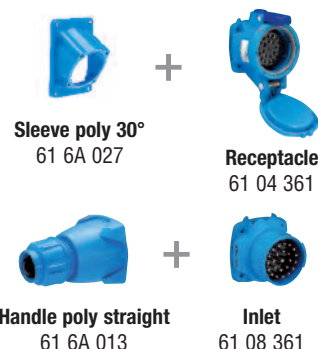


Typical configuration

Inclined receptacle



Plug



**Connector up to
37 contacts**

**Please consult us for
metal casing**

Main features:

Rated current (with wiring according to standard) 5 A	
Σ of currents (contacts)	≤ 185 A
Maximum voltage	415 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK08

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	1 - 2,5 mm ²
Wiring (terminals)	to be soldered
Keying positions	3

Receptacle (female)



For use in very aggressive environment and / or heavy use (several thousands of operations) :
Replace the letter M the letter L. The nominal increases to 2 A.

For plugs and Receptacles:
please contact us for more options

Polarity	Maximum voltage	Part no.
25P	50 V	61 04 250
26P	50 V	61 04 260
27P	50 V	61 04 270
28P	50 V	61 04 280
29P	50 V	61 04 290
30P	50 V	61 04 300
31P	50 V	61 04 310
32P	50 V	61 04 320
33P	50 V	61 04 330
34P	50 V	61 04 340
35P	50 V	61 04 350
36P	50 V	61 04 360
37P	50 V	61 04 370
25P+E	415 V	61 04 251
26P+E	415 V	61 04 261
27P+E	415 V	61 04 271
28P+E	415 V	61 04 281
29P+E	415 V	61 04 291
30P+E	415 V	61 04 301
31P+E	415 V	61 04 311
32P+E	415 V	61 04 321
33P+E	415 V	61 04 331
34P+E	415 V	61 04 341
35P+E	415 V	61 04 351
36P+E	415 V	61 04 361

Inlet (male)



Polarity	Maximum voltage	Part no.
25P	50 V	61 08 250
26P	50 V	61 08 260
27P	50 V	61 08 270
28P	50 V	61 08 280
29P	50 V	61 08 290
30P	50 V	61 08 300
31P	50 V	61 08 310
32P	50 V	61 08 320
33P	50 V	61 08 330
34P	50 V	61 08 340
35P	50 V	61 08 350
36P	50 V	61 08 360
37P	50 V	61 08 370
25P+E	415 V	61 08 251
26P+E	415 V	61 08 261
27P+E	415 V	61 08 271
28P+E	415 V	61 08 281
29P+E	415 V	61 08 291
30P+E	415 V	61 08 301
31P+E	415 V	61 08 311
32P+E	415 V	61 08 321
33P+E	415 V	61 08 331
34P+E	415 V	61 08 341
35P+E	415 V	61 08 351
36P+E	415 V	61 08 361

Boxes

Cable gland not included



Wall box
poly 30°



Wall box metal +
poly sleeve 30°



Wall box metal +
straight metal sleeve 70°



Wall box metal +
metal sleeve 70°



Wall box poly 70°
volume

Entry

M25	61 6A 053	61 6A 653	69 6A 095	87 3A 053
M32		61 6A 653 419	69 6A 095 419	87 3A 053 419
M40		61 6A 653 420	69 6A 095 420	87 3A 053 420

Not drilled and
without cable gland
Part no. 51 CA 058

Sleeves



Inclined
poly 30°

61 6A 027



Inclined
poly 70°

51 CA 757



Straight
metal

69 6A 127



Inclined
metal 70°

87 3A 087

Handles



Straight
poly

10-30 mm	61 6A 013
10-30 mm	61 6A 473 *

* With built-in finger draw plate
(recommended for inline connections)



Straight poly
with poly cable gland

5-12 mm	61 6A 253 20P
9-18 mm	61 6A 753
14-25 mm	61 6A 253 32P
18-32 mm	61 6A 253 40P



Straight metal
with metal cable gland

7-13 mm	61 6A 953 20M
8-16 mm	61 6A 963
16-24 mm	61 6A 953 32M
22-32 mm	61 6A 953 40M



Straight poly without cable gland
with metric threaded entry

M20	61 6A 253 417
M25	61 6A 253 418
M32	61 6A 253 419
M40	61 6A 253 420

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18



Locking with shaft for
3 padlocks - Ø 4 mm
(padlocks not
supplied)

Recept no + 844



Stop button
Recept no + 453



IP67 inlet cap
61 6A 126



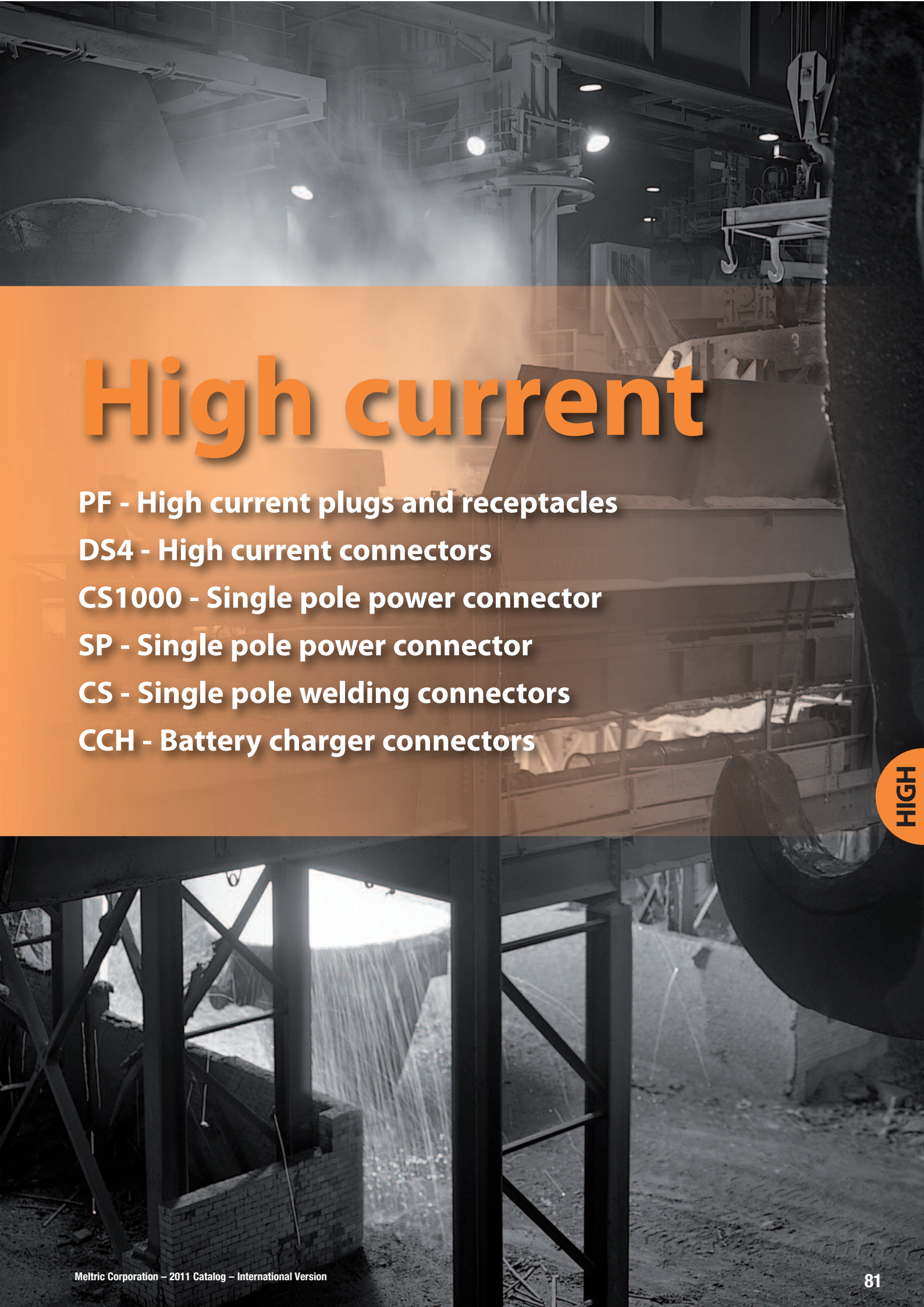
Self-closing lid for
inlet
31 3A 226

37 Contacts Metal Connector

A metal version is also available with a locking position
connected or disconnected by lockable shaft.
Contact us for part numbers.





The background of the page is a composite of two industrial images. The top half shows a large industrial facility with a crane and bright lights, with a semi-transparent orange banner overlaid. The bottom half shows a large waterfall cascading over a concrete structure, framed by dark metal beams.

High current

PF - High current plugs and receptacles

DS4 - High current connectors

CS1000 - Single pole power connector

SP - Single pole power connector

CS - Single pole welding connectors

CCH - Battery charger connectors

HIGH

PF

315 A

400 A

500 A

600 A



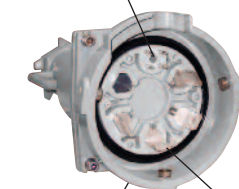
- Safe and reliable in harsh environments
- Automatically IP66/IP67
- Corrosion resistant metal casing
- Up to 8 auxiliary contacts

Power supply to big equipment and gensets in quarries, tunnel boring machines, port equipment or ships, urban equipment...

Mechanical features

Pilot contacts:

Designed to connect before and disconnect after the phase contacts



IK10 metal casing
High resistance to mechanical abuse

Locking mechanism

The locking mechanism guarantees safe and watertight connection and engages the pilot contacts



Safety shutter
IP4X/IPXXD (PFQ)
IP2X (PFC)

Lateral spring-loaded silver butt-contacts
Silver is an excellent conductor and the engagement cleans the contacts automatically



Off load engagement



Automatically watertight



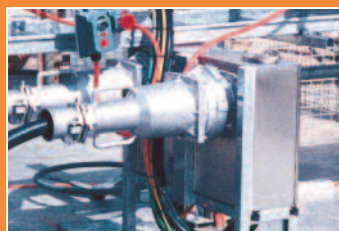
Locking the plug in the receptacle closes the pilots and connects the mains

SPECIFICATION

315 to 600 A, IP 66/67 plugs and receptacles separating the power contact opening and closing from that of the pilot contacts, safety shutter (IP4X/IPXXD receptacle), silver butt-contacts.



HIGH CURRENT PLUGS AND RECEPTACLES



Submersible pumps



Tunnel boring



Ship to shore



Conveyor in a quarry

Electrical feature

Outlets with mandatory cutoff switch or contactor controlled by pilot contacts

	PFQ3	PFQ4	PFC4	PFC5	PFC6
Rated current (In)	315 A	400 A	400 A	500 A	600 A
Maximum voltage	690 V	690 V	1000 V	1000 V	1000 V
Auxiliary contacts available	6	6	2	2	2
Pilot contacts	2	2	2	2	2
Keying positions (¹)	10	10	7	7	7
Ambient Temperature	-40 °C to +60 °C				

(¹) To discriminate between different power supplies and applications

Regulatory features

PF plugs and receptacles comply with:

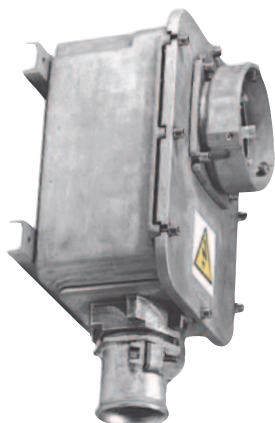
- The European Low Voltage Directive 2006/95/CE,
- The French NF C 15-100 standard,
- The French decree n°88-1056 dated 14th November 1988 with pilot contact wiring,
- The decrees relating to workers' protection in Belgium, Spain and Italy.
- US UL standard (QLHN E145931).



PFQ3 & Q4

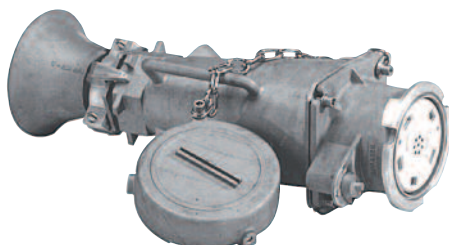
315 A
to 400 A

IP66
IP67

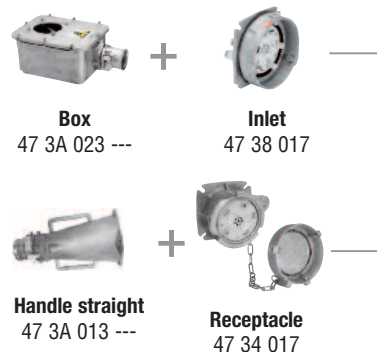


Typical configuration

PFQ3 surface mounted appliance inlet



PFQ3
connector



Metal receptacle with pilot-contact controlled electrical locking

Main features:

Maximum voltage	690 V
IP protection lid closed	IP66 / IP67
IP protection connected plug	IP66 / IP67
Resistance to shocks	IK10
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	95 - 185 mm ²
Stranded wiring (min-max)	95 - 185 mm ²
Wiring for single or multi entry	
Keying positions	10
Auxiliary contacts	6
Pilot contacts	2

Receptacle (female) PFQ3 (315 A)



Other voltages and polarities are available on request (See p. 5)

Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	47 34 013
380 - 440 V	3P+N+E	47 34 017
660 - 690 V	3P+E	47 34 193
660 - 690 V	3P+N+E	47 34 197

Inlet (male) PFQ3 (315 A)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	47 38 013
380 - 440 V	3P+N+E	47 38 017
660 - 690 V	3P+E	47 38 193
660 - 690 V	3P+N+E	47 38 197

Receptacle (female) PFQ4 (400 A)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	47 44 013
380 - 440 V	3P+N+E	47 44 017
660 - 690 V	3P+E	47 44 193
660 - 690 V	3P+N+E	47 44 197

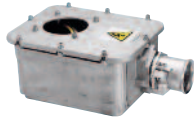
Inlet (male) PFQ4 (400 A)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	47 48 013
380 - 440 V	3P+N+E	47 48 017
660 - 690 V	3P+E	47 48 193
660 - 690 V	3P+N+E	47 48 197

Boxes

Cable gland included



Wiring from 95 to 150 mm²
PFQ3 / PFQ4



Wiring from 150 to 185 mm²
PFQ3 / PFQ4

46 - 50 mm	47 4A 023 951	47 4A 023 241
51 - 55 mm	47 4A 023 952	47 4A 023 242
56 - 60 mm	47 4A 023 953	47 4A 023 243
61 - 65 mm	47 4A 023 954	47 4A 023 244
66 - 70 mm	47 4A 023 955	47 4A 023 245
71 - 75 mm	47 4A 023 956	47 4A 023 246
76 - 80 mm	47 4A 023 957	47 4A 023 247
81 - 85 mm	47 4A 023 958	47 4A 023 248
86 - 90 mm	47 4A 023 959	47 4A 023 249

On request: boxes for installation in ducts, boxes equipped with circuit breaker, earth-leakage switch, contactor,...

Handles



Straight *
PFQ3 / PFQ4



Angled 90°
PFQ3 / PFQ4

46 - 50 mm	47 4A 013 50	47 4A 913 50
51 - 55 mm	47 4A 013 55	47 4A 913 55
56 - 60 mm	47 4A 013 60	47 4A 913 60
61 - 65 mm	47 4A 013 65	47 4A 913 65
66 - 70 mm	47 4A 013 70	47 4A 913 70
71 - 75 mm	47 4A 013 75	47 4A 913 75
76 - 80 mm	47 4A 013 80	47 4A 913 80
81 - 85 mm	47 4A 013 85	47 4A 913 85
86 - 90 mm	47 4A 013 90	47 4A 913 90

* Trumpet gland available on request

Options & accessories



Key for locking and
operating pilot
contacts

47 3A 824



Inlet lid
47 4A 126

Electrical locking

With such high power, breaking under load like with a Decontactor is impossible. Electrical locking with a switch or a pilot controlled contactor is essential. Boxes with the following equipment are available upon request:

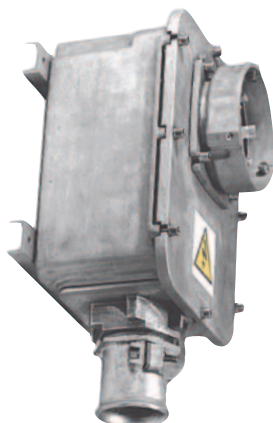
- circuit breaker or differential switch,
- contactor,
- fuses,
- loop-out enclosures,
- terminals for single pole cables...

See next page: « how to wire a PF »

PFC4/C5/C6

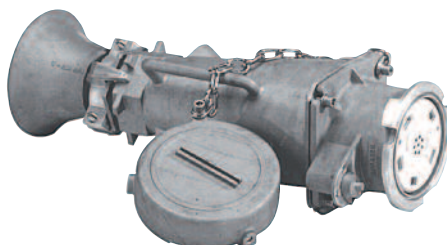
400 A
to 600 A

IP66
IP67

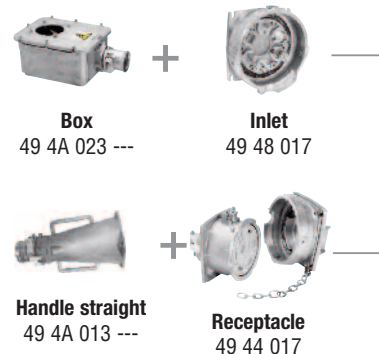


Typical configuration

PFC4 surface mounted appliance inlet



PFC4
connector



Box
49 4A 023 ---

Inlet
49 48 017

Handle straight
49 4A 013 ---

Receptacle
49 44 017

Metal receptacle with pilot-contact controlled electrical locking

Main features:

Maximum voltage	1000 V
IP protection lid closed	IP66 / IP67
IP protection connected plug	IP66 / IP67
Resistance to shocks	IK10
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	95 - 240 mm ²
Stranded wiring (min-max)	95 - 240 mm ²
Wiring for multi entry	
Keying positions	7
Auxiliary contacts	2
Pilot contacts	2

Receptacle (female) PFC4 (400 A)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	49 44 013
380 - 440 V	3P+N+E	49 44 017
660 - 690 V	3P+E	49 44 193
660 - 690 V	3P+N+E	49 44 197
1000 V	3P+E	49 44 223

Other voltages and polarities are available on request (See p. 5)

Receptacle (female) PFC5 (500 A)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	49 54 013
380 - 440 V	3P+N+E	49 54 017
660 - 690 V	3P+E	49 54 193
660 - 690 V	3P+N+E	49 54 197
1000 V	3P+E	49 54 223

Receptacle (female) PFC6 (600 A)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	49 64 013
380 - 440 V	3P+N+E	49 64 017
660 - 690 V	3P+E	49 64 193
660 - 690 V	3P+N+E	49 64 197
1000 V	3P+E	49 64 223

Inlet (male) PFC4 (400 A)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	49 48 013
380 - 440 V	3P+N+E	49 48 017
660 - 690 V	3P+E	49 48 193
660 - 690 V	3P+N+E	49 48 197
1000 V	3P+E	49 48 223

Inlet (male) PFC5 (500 A)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	49 58 013
380 - 440 V	3P+N+E	49 58 017
660 - 690 V	3P+E	49 58 193
660 - 690 V	3P+N+E	49 58 197
1000 V	3P+E	49 58 223

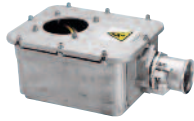
Inlet (male) PFC6 (600 A)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	49 68 013
380 - 440 V	3P+N+E	49 68 017
660 - 690 V	3P+E	49 68 193
660 - 690 V	3P+N+E	49 68 197
1000 V	3P+E	49 68 223

Boxes

Cable gland included



Wiring from 95 to 150 mm²
PFc4 / PFC5 / PFC6



Wiring from 150 to 240 mm²
PFc4 / PFC5 / PFC6

46 - 50 mm	49 6A 023 951	49 6A 023 241
51 - 55 mm	49 6A 023 952	49 6A 023 242
56 - 60 mm	49 6A 023 953	49 6A 023 243
61 - 65 mm	49 6A 023 954	49 6A 023 244
66 - 70 mm	49 6A 023 955	49 6A 023 245
71 - 75 mm	49 6A 023 956	49 6A 023 246
76 - 80 mm	49 6A 023 957	49 6A 023 247
81 - 85 mm	49 6A 023 958	49 6A 023 248
86 - 90 mm	49 6A 023 959	49 6A 023 249

On request: boxes for installation in ducts, boxes equipped with circuit breaker, earth-leakage switch, contactor,...

Handles



Straight *
PFc4 / PFC5 / PFC6



Angled 90°
PFc4 / PFC5 / PFC6

46 - 50 mm	49 6A 013 50	49 6A 913 50
51 - 55 mm	49 6A 013 55	49 6A 913 55
56 - 60 mm	49 6A 013 60	49 6A 913 60
61 - 65 mm	49 6A 013 65	49 6A 913 65
66 - 70 mm	49 6A 013 70	49 6A 913 70
71 - 75 mm	49 6A 013 75	49 6A 913 75
76 - 80 mm	49 6A 013 80	49 6A 913 80
81 - 85 mm	49 6A 013 85	49 6A 913 85
86 - 90 mm	49 6A 013 90	49 6A 913 90

* Trumpet gland available on request

Options & accessories



Key for locking and
operating pilot
contacts
49 3A 824



metal lid
49 4A 126

How to wire a PF



1. The cable gland is mounted on a removable metal plate...



2. Align the conductors with the terminals for wiring



3. Slide the plate to its designated location and bolt. Close the cover



4. Tighten the screws to make the device IP66/IP67



Typical configuration

Wall mounted receptacle



Plug



Wall box
stainless steel 20°
39 4A 025 63M



Receptacle
39 44 013 172



Metal handle
39 4A 915 57



Inlet
39 48 013 172

Connector up to 400 A with auxiliary contacts for electrical interlock

Main features:

Rated current	400 A
Maximum voltage	1000 V
IP protection	IP54
IP66/IP67 in option	
Resistance to shocks	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	70 - 150 mm ²
Stranded wiring (min-max)	70 - 185 mm ²
Connectors without breaking capacity	
In standard version, featuring 2 auxiliary contacts for electrical interlock	
Mechanical interlock	
Inlet closing device out of stainless steel	

Should the receptacle outlet and the male inlet be meant for recess-mounting, the spacer must be used (see options and accessories)

Receptacle



Voltage	Polarity	Part no.
380-440 V	3P+E+ 2 aux	39 44 013 172
1000 V	3P+E+ 2 aux	39 44 223 172

Inlet



Voltage	Polarity	Part no.
380-440 V	3P+E+ 2 aux	39 48 013 172
1000 V	3P+E+ 2 aux	39 48 223 172

DS4 boxes / 400 A up to 1000 V

The DS4 is also available as a complete box, equipped with a contactor, LED signal lights and ON/OFF emergency pushbutton.



ZOOM

Wall box

with cable gland



Wall box 20°
stainless steel

36-46 mm	39 4A 025 63M
46-60 mm	39 4A 025 25Z
58-65 mm	39 4A 025 30Z

Sleeve



Inclined 60° metal
39 4A 027 68

Handle



Straight metal
with cable gland

53-57 mm	39 4A 915 57
58-62 mm	39 4A 915 62
62-68 mm	39 4A 915 68
69-73 mm	39 4A 915 73

Options & accessories

	Part no.
IP67 inlet tap	31 2A 126
IP66/IP67 watertightness (recept & inlet)	Part no. +667
Spacer (68 mm)	39 4A 127 68
Spacer (115 mm)	39 4A 127 115

DS4 400 A: a compact size for high current and voltage equipment

The DS4 receptacle outlets offer a compact solution for connections up to 400 A / 1000 V. The butt-contact system offers perfect current conductivity. The robust metal enclosure ensures a safe and reliable operation, even under harsh use conditions. The DS4 is equipped, in standard version, with an easy inlet closing device made out of stainless steel.

The DS4 receptacle outlets are adequate for the following applications: connection to drilling equipments and tunnel boring machines, cranes (e.g. in harbours), generators, quarries, large switchracks and switchboards...



CS1000 SINGLE POLE POWER CONNECTOR up to 400 A – 1000 V a.c.



Typical configuration
Inclined receptacle



Plug



Main features:

Rated current	400 A	Resistance to shocks	IK08
Maximum voltage a.c.	1 000 V	Ambient temperature	-40 °C to +60 °C
Maximum voltage d.c.	1 500 V	Flexible wiring (min – max)	50 - 150 mm ²
Short-circuit current I _{cc}	20 kA during 250 ms	Keying positions	mechanical (5) and visual
IP protection lid closed	IP66/IP67		

Number of operations + 2 000

Five mechanical keying positions for L1, L2, L3, N and E

Standardised colour coding specified by country.

Part-numbers valid for Europe and Japan.

For other countries: add the suffix...

-P80 (USA) Example :
Receptacle L1= 4534 001 P80

-P67 (Australia) Example :
Inlet L3= 4538 003 P67

-P40 (U.K. & R.S.A.)
Example :
Receptacle Earth = 4534 00T P40

Receptacle (female) without ferrule



Type	Part no.
L1	4534 001
L2	4534 002
L3	4534 003
Neutral	4534 00N
Earth	4534 00T
Positive	4534 00P
Negative	4534 00M

Inlet (male) without ferrule



Type	Part no.
L1	4538 001
L2	4538 002
L3	4538 003
Neutral	4538 00N
Earth	4538 00T
Positive	4538 00P
Negative	4538 00M

European color coding

Brown	
Black	
Grey	
Blue	
Green	
Red	
Black	

Ferrules

Selection of ferrule depends on the cable: the cross-section of the flexible cable mentioned in the table below is for information only. Please check dimensions as these may vary according to cables and manufacturers.



Wiring (mm ²)		Straight with hole	Straight threaded *	Internal diameter (mm)
Flexible	Stranded	Part no.	Part no.	
50	70	453 A50 C	453 A50 D	11
70	95	453 A70 C	453 A70 D	13,1
95	120	453 A95 C	453 A95 D	14,5
120	150	453 A12 C	453 A12 D	16,2
150	185	453 A15C	453 A15D	18

* Wiring with crimping lugs, according to NF C20-130 standard (for VDE 0220 standard, please contact us)

Crimping: double hexagonal crimping is recommended.

Padlocking ring



453 A844



Sleeve

Inclined 30° with adapter plate



453 A027

* The inclined sleeve is recommended to reduce the effect of the weight of the cable.

Adapter plate



453 A540

Handle

Straight



M32	453 A753	14 - 25 mm
M40	453 A783	18 - 32 mm

Perfect safety

- Receptacle: IP2X finger protection, without cap,
- Automatic IP66/IP67 watertightness with cap ; or upon connection,
- Locking mechanism preventing inadvertant disconnection.

Easy connection

- Mechanical keying system between phases, neutral and earth,
- Standardised colour coding,
- Replacable crimping lug in case of cable damage.

High Performance

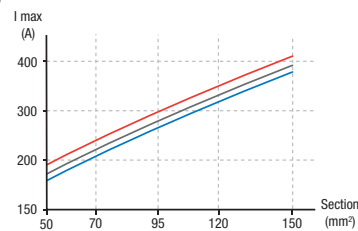
Thanks to its butt-contact technology the CS1000 connector withstands permanent current of 400 A / 1 000 V a.c. or 1 500 V d.c. (wiring from 50 to 150 mm²).

CS1000 electrical rating

Permanent admissible current for a H07RNF cable, at 30 °C ambient temperature

- Maximum permanent admissible current in the CS1000 after 2 000 operations according to the cross-section
- Maximum intensity of permanent current specified by the cable manufacturers to maintain a conductor core temperature < 85 °C
- Maximum intensity of permanent current specified by the NFC 15-100 or the IEC 60 364-5-52 standards to maintain a conductor core temperature < 70 °C

Options



- Padlocking system
- Unlocking tool available

5 mechanical keying positions



Earth



L1



L2 / Negative



L3 / Positive



Neutral

Safety shutter (IP2X)



IP66/IP67 ring

Bayonet operation



Typical configuration

Inclined receptacle



Sleeve
454 A027



Ferrule
454 A70 C



Receptacle
4544 00N



Handle
454 A753



Ferrule
454 A70 D



Inlet
4548 00N

Plug

Connector with
electromechanical
locking system

5 mechanical keying
positions with coding rings
for L1, L2, L3, Neutral and
Earth

Color coding systems to
country standards

Part-numbers valid for
Europe and Japan.

For other countries:
add the suffix...

-P80 (USA) Example :
Receptacle L1 = 4544 001 P80

-P67 (Australia) Example :
Inlet L3 = 4548 003 P67

-P40 (U.K. & R.S.A.)
Example :
Receptacle Earth = 4544 00T
P40

Main features:

Rated current	700 A*	Resistance to shocks	IK08
*For higher current, please contact us			
Maximum voltage a.c.	1000 V	Ambient temperature	-40 °C to +60 °C
Maximum voltage d.c.	1500 V	Flexible wiring (min – max)	50 - 400 mm ²
Short-circuit current I _{cc}	20 kA during 250 ms	Stranded wiring (min – max)	70 - 500 mm ²
IP protection lid closed	IP66/IP67	Keying positions	mechanical (5) and visual
Number of operations	2000		
Pre-wired pilot circuit	6 A / 250 V		

Receptacle (female) without ferrule



Type	Part no.
L1	4544 001
L2	4544 002
L3	4544 003
Neutral	4544 00N
Earth	4544 00T
Positive	4544 00P
Negative	4544 00M

Inlet (male) without ferrule



Type	Part no.
L1	4548 001
L2	4548 002
L3	4548 003
Neutral	4548 00N
Earth	4548 00T
Positive	4548 00P
Negative	4548 00M

European color coding

Brown	
Black	
Grey	
Blue	
Green	
Red	
Black	

Ferrules

Selection of ferrule depends on the cable: the cross-section of the flexible cable mentioned in the table below is for information only. Please check dimensions as these may vary according to cables and manufacturers.



Wiring (mm ²)		Straight with hole	Straight threaded *	Internal diameter (mm)
Flexible	Stranded	Part no.	Part no.	
50	70	454 A50 C	454 A50 D	11
70	95	454 A70 C	454 A70 D	13,1
95	120	454 A95 C	454 A95 D	14,5
120	150	454 A12 C	454 A12 D	16,2
150	185	454 A15 C	454 A15 D	18
185	240	454 A18 C	454 A18 D	20,6
240	300	454 A24 C	454 A24 D	23,1
300	400	454 A30 C	454 A30 D	26,1
400	500	454 A40 C	454 A40 D	29,2

* Wiring with crimping lugs, according to NF C20-130 standard (for VDE 0220 standard, please contact us)

Crimping: double hexagonal crimping is recommended.



MARINE

Sleeve



Inclined metal 45°

454 A027

* The inclined sleeve is recommended to reduce the effect of the weight of the cable.

Handle



Straight

454 A753

17 - 38 mm

454 A783

35 - 48 mm

The highest possible safety

- Reliable mechanical and electrical interlocking with pilot contact circuit.
- IP2X receptacle when cap removed,
- Automatic IP66/IP67 watertightness when plug is connected.

An easily operable connector

- Straight insertion of the plug into the receptacle without any rotation,
- Different mechanical keying of L1, L2, L3, N and E,
- Visual identification by standard colours,
- Screwed crimping lugs facilitate cable replacement.

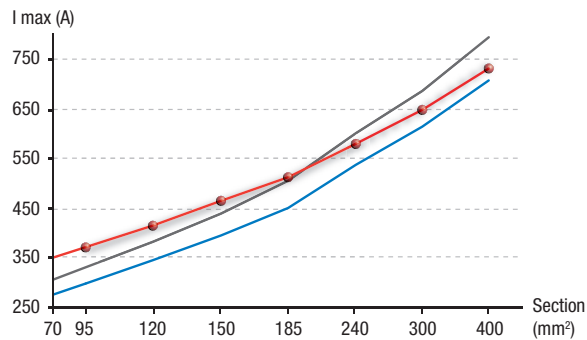
Performances

Thanks to the butt-contact principle, the SP withstands continuously up to 700A / 1000 V a.c. or 1500V d.c. (70mm² to 400mm² conductors), withstands at least 2000 operations.

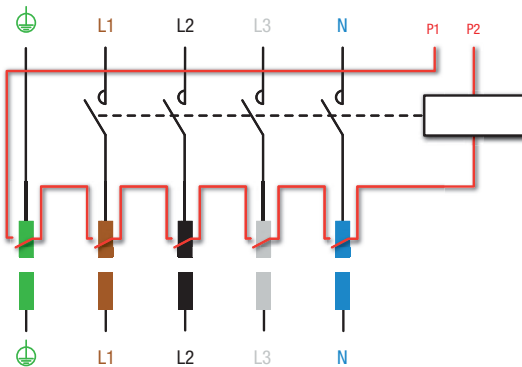
Characterization of the SP

Current according to conductor cross-section at 30 °C ambient temperature

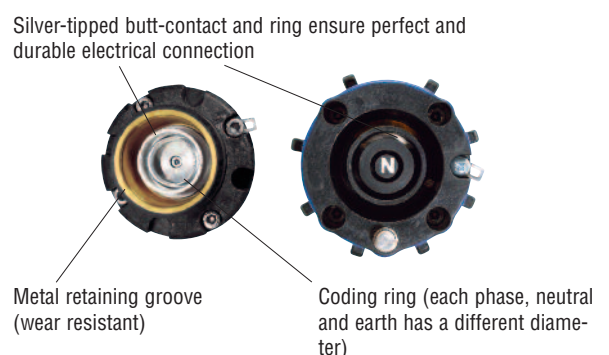
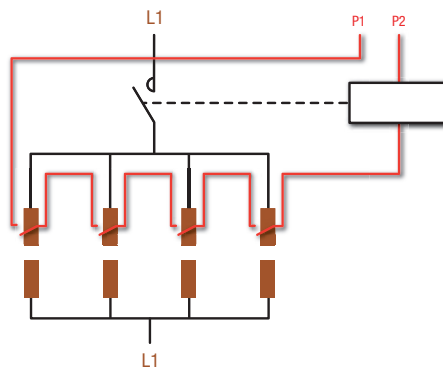
- Curve for the continuous max current for the SP after 2000 operational cycles as a function of the conductor cross-section
- Curve for the continuous max current specified by the cable manufacturers in order to maintain a cable temperature < 85°C
- Curve for the continuous max current as per IEC 60364-5-52 (or NFC 15-100) maintaining a cable temperature < 70°C



Wiring diagram electrical of interlocking: by connecting all polarities



Wiring diagram electrical of interlocking: increased current by parallel connection



Single pole connectors from 16 to 150 mm²



Main features:

- From 75 to 500 A – Very Low Voltage (maximum 50 V)
- Bayonet locking system providing perfect contact when connected
- Self-cleaning contacts
- Highly reliable silver-nickel butt-contacts
- Crimped connections by lugs
- Optional screw wiring terminals

Type CS	Wiring (mm ²)	In rated current (A)	i max welding cycle (A)	
			5 min cycles	
			60%	30%
CS2	16	75	100	150
	30	100	125	200
	40	125	150	250
	50	150	200	300
CS3	50	150	200	300
	75	200	250	350
	100	250	300	400
CS5	120	275	350	450
	150	325	450	500

* Definition of 30% welding cycle: on a 5 min cycle, 30% of the time working (i.e. 1 min 30 s) and 70% off (i.e. 3 min 30 s).

Inlet (male)



Inlet	Rated current welding cycle		CS2	CS3	CS5
Wire cross-section (mm ²)	60%	30%			
16	100 A	150 A	42 901 016		
30	125 A	200 A	42 901 030		
40	150 A	250 A	42 901 040		
50	200 A	300 A	42 901 050	43 901 050	
75	250 A	350 A		43 901 075	
100	300 A	400 A		43 901 100	
120	350 A	450 A			45 901 120
150	450 A	500 A			45 901 150
à vis	200 A	300 A	42 901 121		
à vis	300 A	400 A		43 901 121	
à vis	450 A	500 A			45 901 121



Plug	Rated current welding cycle		CS2	CS3	CS5
Wire cross-section (mm ²)	60%	30%			
16	100 A	150 A	40 201 016		
30	125 A	200 A	40 201 030		
40	150 A	250 A	40 201 040		
50	200 A	300 A	40 201 050	40 301 050	
75	250 A	350 A		40 301 075	
100	300 A	400 A		40 301 100	
120	350 A	450 A			40 501 120
150	450 A	500 A			40 501 150

Receptacle (female)



Receptacle	Rated current welding cycle		CS2	CS3	CS5
Wire cross-section (mm²)	60%	30%			
16	100 A	150 A	42 401 016		
30	125 A	200 A	42 401 030		
40	150 A	250 A	42 401 040		
50	200 A	300 A	42 401 050	43 401 050	
75	250 A	350 A		43 401 075	
100	300 A	400 A		43 401 100	
120	350 A	450 A			45 401 120
150	450 A	500 A			45 401 150
à vis	200 A	300 A	42 401 121		
à vis	300 A	400 A		43 401 121	
à vis	450 A	500 A			45 401 121



Connector	Rated current welding cycle		CS2	CS3	CS5
Wire cross-section (mm²)	60%	30%			
16	100 A	150 A	42 301 016		
30	125 A	200 A	42 301 030		
40	150 A	250 A	42 301 040		
50	200 A	300 A	42 301 050	43 301 050	
75	250 A	350 A		43 301 075	
100	300 A	400 A		43 301 100	
120	350 A	450 A			45 301 120
150	450 A	500 A			45 301 150

Spare parts	CS2	CS3	CS5
Receptacle			
Contact	42 301 021	43 301 021	45 301 021
Insulating handle	42 301 013	43 301 013	45 301 013
Insulating interior	42 401 013	43 401 013	45 401 013
Plug			
Contact	40 201 011	40 301 011	40 501 011
Insulating handle	40 201 013	40 301 013	40 501 013
Insulating interior	42 901 013	43 901 013	45 901 013
Screw			
Ø14 (except CS2 : Ø10)	42 000 121	43 000 121	45 000 121

Copper ferrules

Selection of ferrules depends on the cable: the cross-section of the flexible cable mentioned in the table below is for information only. Please check dimensions as these may vary according to cables and manufacturers.

Wiring (mm²)		Internal diameter (mm)	Straight threaded *		
Flexible	Stranded		CS2	CS3	CS5
16	25	6,6	42 301 416		
25	35	7,9	42 301 430		
35	50	9,2	42 301 440		
50	70	11	42 301 450	43 301 450	
70	95	13,1		43 301 475	
95	120	14,5		43 301 400	
120	150	16,2			45 301 520
150	185	18			45 301 550

* Wiring with crimping lugs, according to NF C20-130 standard (for VDE 0220 standard, please contact us)

Crimping: double hexagonal crimping is recommended.

Battery charger connectors

Main features:

- From 75 to 200 A -500 V (with pilot contact)
- With or without earth contact
- Conductors from 16 to 75 mm²
- High reliability due to the silver-nickel butt-contacts
- Easy plug insertion thanks to closing lever
- Crimped connections by lugs

Wiring (mm²)

Rated current (A)

16	75
30	100
40	125
50	150
75	200

Inlet (male)



Plug

Rated current

CCH black polyamide

CCH grey polyamide

Wire section (mm ²)		2P + pilot 50 V max.	2P + T +pilot 500 V max.	2P + pilot 50 V max.	2P + T +pilot 500 V max.
16	75 A	5-0206-016	5-0207-016	5-0205-016	5-0209-016
30	100 A	5-0206-030	5-0207-030	5-0205-030	5-0209-030
40	125 A	5-0206-040	5-0207-040	5-0205-040	5-0209-040
50	150 A	5-0206-050	5-0207-050	5-0205-050	5-0209-050
75	200 A	5-0206-075	5-0207-075	5-0205-075	5-0209-075

Receptacle (female)



Receptacle

Rated current

CCH black polyamide

CCH grey polyamide

Wire section (mm ²)		2P + pilot 50 V max.	2P + T +pilot 500 V max.	2P + pilot 50 V max.	2P + T +pilot 500 V max.
16	75 A	5-2106-016	5-2107-016	5-2105-016	5-2109-016
30	100 A	5-2106-030	5-2107-030	5-2105-030	5-2109-030
40	125 A	5-2106-040	5-2107-040	5-2105-040	5-2109-040
50	150 A	5-2106-050	5-2107-050	5-2105-050	5-2109-050
75	200 A	5-2106-075	5-2107-075	5-2105-075	5-2109-075

Spare parts

CCH black polyamide

CCH grey polyamide

Contacts

Receptacle contact	5-2106-021	5-2109-021
Plug contact	5-0206-011	5-0209-011
Receptacle Earth contact		5-2000-029
Plug Earth contact		5-0200-019
Receptacle pilot contact		5-2000-229
Plug pilot contact		5-0200-219

Copper ferrules

Selection of ferrules depends on the cable: the cross-section of the flexible cable mentioned in the table below is for information only. Please check dimensions as these may vary according to cables and manufacturers.

Wiring (mm ²)		Internal diameter (mm)	Straight threaded *
Flexible	Stranded		CCH
16	25	6,6	42 301 416
25	35	7,9	42 301 430
35	50	9,2	42 301 440
50	70	11	42 301 450
70	95	13,1	43 301 475

* Wiring with crimping lugs, according to NF C20-130 standard (for VDE 0220 standard, please contact us)

Crimping: double hexagonal crimping is recommended.

High Temperature

Adapted to heavy duty environments such as steel works, the power connectors and signal and control connectors guarantee superior quality connections in environments where ambient temperature are high. This rugged connectors are also corrosion resistant.

SPECIFICATION

High temperature connectors, silver butt-contacts with metal braid. Automatic IP44.

Three phased connectors

Star-delta connectors

Multicontact connectors

Electrical feature

	PN HT	DS HT	DN 7C3 HT	DN 7C6 HT	PN 7C HT	DN 9C HT
Operating temperature steady	185 °C / 240 °C	240 °C	135 °C	135 °C	185 °C	135 °C
Rated current (In)	30 A	90 A	50 A	90 A	25 A	25 A
Maximum Voltage	500 V	690 V	415 V	415 V	50 V / 500 V	50 V / 415 V
Maximum no. of contacts	3P+N+E	3P+E	6P+E	6P+E	6P+E	8P+E
Protection	IP44	IP44	IP44	IP44	IP44	IP44
Robustness	IK09	IK09	IK09	IK09	IK09	IK09

H.T°

Connectors HT

Plug and receptacle type

PN HT

185 °C / 240 °C

Main features:

Rated current (with wiring according to standard)	30 A
Maximum voltage	500 V
Ambient temperature	185 °C

Flexible wiring (min-max)	1 - 6 mm ²
Stranded wiring (min-max)	1,5 - 10 mm ²

Other voltages and polarities are available on request (See p. 5)

Dual-voltage receptacle:
A 5 pin 400 V 3pne receptacle will accept a 5 pin plug, 4 pin plug and 3 pin 230 V plug

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	09 24 08A 185
190 - 230 V	3P+E	09 24 033 185
220 - 250 V	1P+N+E	09 24 015 185
380 - 440 V	3P+E	09 24 013 185
380 - 440 V	3P+N+E	09 24 017 185

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	09 28 08A 185
190 - 230 V	3P+E	09 28 033 185
220 - 250 V	1P+N+E	09 28 015 185
380 - 440 V	3P+E	09 28 013 185
380 - 440 V	3P+N+E	09 28 017 185

Boxes

Cable gland not included



Straight metal



Straight metal + sleeve metal 45°

Sleeve



Inclined metal 45°

Handle



Straight metal

Entry			09 2A 027 185	6 - 13 mm	09 2A 963 185
M20	09 2A 055 185	09 2A 653 185		10 - 18 mm	09 2A 674 185
M25		09 2A 672 185		16 - 24 mm	09 2A 675 185
M32		09 2A 673 185			

Please consult us for 240 °C version

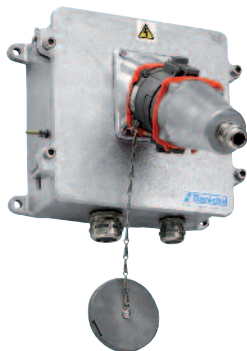
DS HT

240 °C (400 °C)

Main features:

Rated current (with wiring according to standard)	90 A
Maximum voltage	690 V
IP protection lid closed	IP66
IP protection connected plug	IP66

Ambient temperature	240 °C
Maximum temperature during 2 hours	400 °C
Flexible wiring (min-max)	10 - 25 mm ²
Stranded wiring (min-max)	16 - 35 mm ²



Receptacle + Box

Voltage 50 Hz	Polarity	Part no.
380-440 V	3P+E	3934013Zxxxx

Plug

Voltage 50 Hz	Polarity	Part no.
380-440 V	3P+E	3938013Zxxxx

Please consult us for configurations and part no.

CSTB Certificate
N°RS05-026

Connectors HT

Multicontacts

H.T°

DN 7C3 HT

Main features:

Rated current (with wiring according to standard)	50 A
Maximum voltage	415 V
Ambient temperature	135 °C

Flexible wiring (min-max)	2,5 - 10 mm ²
Stranded wiring (min-max)	2,5 - 16 mm ²

Accessories for mounting :
see DN3 page 37

Receptacle (female)



Max Volt. / Amp	Polarity	Part no.
415 / 50	6P+E	19 34 061 185

Inlet (male)



Max Volt. / Amp	Polarity	Part no.
415 / 50	6P+E	19 38 061 185

DN 7C6 HT

Main features:

Rated current (with wiring according to standard)	90 A
Maximum voltage	415 V
Ambient temperature	135 °C

Flexible wiring (min-max)	10 - 25 mm ²
Stranded wiring (min-max)	10 - 35 mm ²

Accessories for mounting :
see DN6 page 39

Receptacle (female)



Max Volt. / Amp	Polarity	Part no.
415 / 90	6P+E	19 64 061 185

Inlet (male)



Max Volt. / Amp	Polarity	Part no.
415 / 90	6P+E	19 68 061 185

PN 7C HT

Main features:

Imax	25 A
Maximum voltage with Earth contact	500 V
Ambient temperature max.	185 °C

Flexible wiring (min-max)	1 - 4 mm ²
Stranded wiring (min-max)	1 - 6 mm ²

Accessories for mounting :
see PN HT on left page

Receptacle (female)



Max Volt. / Amp	Polarity	Part no.
50 / 25	7P	09 P4 070 185
500 / 25	6P+E	09 P4 061 185

Inlet (male)



Max Volt. / Amp	Polarity	Part no.
50 / 25	7P	09 P8 070 185
500 / 25	6P+E	09 P8 061 185

DN 9C HT

Main features:

Imax	25 A
Maximum voltage with Earth contact	415 V
Ambient temperature max.	135 °C

Flexible wiring (min-max)	1 - 6 mm ²
Stranded wiring (min-max)	1,5 - 10 mm ²

Accessories for mounting :
see DN1 page 35

Receptacle (female)



Max Volt. / Amp	Polarity	Part no.
50 / 25	9P	19 14 090 185
415 / 25	8P+E	19 14 081 185

Inlet (male)



Max Volt. / Amp	Polarity	Part no.
50 / 25	9P	19 18 090 185
415 / 25	8P+E	19 18 081 185



SPECIFICATION

Mechanical system

Electrical connector with a mechanical self ejecting system activated by a tension cord. Plug and receptacle using silver-nickel butt contacts with metal braid, complying with EN 60309-1.

Electrical system

Battery charging connector system for rescue vehicles, comprising an inlet and enclosure. The connector is automatically ejected when the ignition key is turned.

Inlet and receptacle use silver-nickel butt contacts with metal braid, complying with EN 60309-1.

Self-ejecting systems

Self-ejecting systems prevent the rupturing of the electric circuit when a mobile device is removed before proper disconnection of the electrical supply.

The applications include emergency rescue vehicles, electric supply to equipment on lorries and boats, heated or refrigerated food trollies, etc.

Mechanical systems

Electrical systems

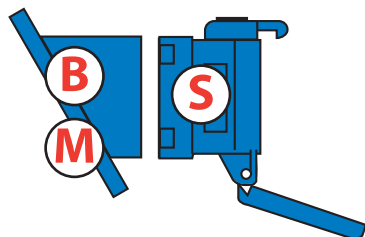
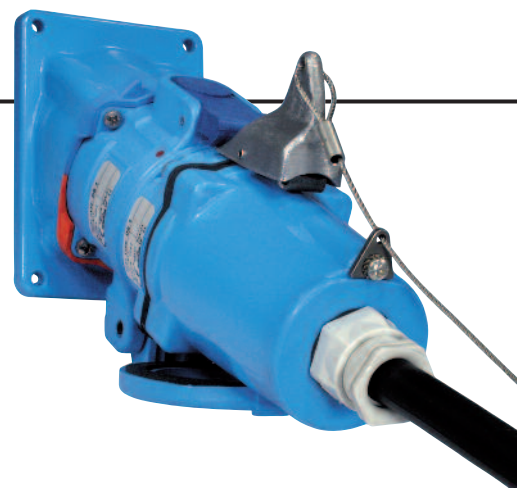
Ejection

Mechanical systems

For DECONTACTOR™ plugs and connectors

Self-ejecting plugs: handle + inlet (male)

Mechanical self-eject systems work with a tension cord that activates the Decontactor's latch to release the ejection force of the springs inside.



Fixed part



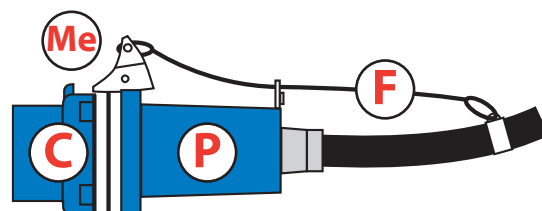
S



B



S



Mobile part



I



Me



H



C

3P+N+E (380-440 V) configuration

Range		Receptacle	Box	Sleeve
DSN1	20 A	6114017 352	611A053	611A027
DSN3	32 A	6134017 352	613A053	613A027
DSN6	63 A	6164017 352	616A053	616A027
DS1	30 A	3114017 352	311A053	311A027
DS3	50 A	3134017 352	313A053	313A027
DS6 GRP	90 A	3164017 352	316A053	316A027
DS6 Metal	90 A	3964017 352	396A053	396A027
DN1	30 A	1914017 R	191A053	191A027
DS9 GRP	150 A	3194017 352	399A053	319A027
DS9 Metal	150 A	3994017 353	399A053	399A027
DN6	90 A	1964017 R	196A053	196A027
DN9*	150 A	1994013 R	199A053	199A027

* 3P+E Configuration

For **3P+E (380-440 V)** receptacle and inlet, replace 017 for 013, e.g. : DSN1 receptacle = 6114**013** **352**, DSN1 inlet = 611**8013**

For **1P+N+E (220-250 V)** receptacle and inlet, replace 017 for 015, e.g. : DSN1 receptacle = 6114**015** **352**, DSN1 inlet = 611**8015**

**Other cable dia are available on request: Please consult us for part Nrs.

* D35 = Cable dia. 25 to 35 mm - D45 = Cable dia. 35 to 45 mm - D49 = Cable dia. 45 to 49 mm

Inlet	Mechanism	Handle	Ø mm**	Cord	
6118017	611A338	611A463	5-12	311A336	A
6138017	613A338	613A463	5-12	311A336	A
6168017	616A338	616A463	9-18	311A336	A
3118017	311A338	311A463	5-12	311A336	A
3138017	313A338	313A463	9-18	311A336	A
3168017	316A338	316A463	18-32	311A336	A
3968017	316A338	316A463	18-32	311A336	A
1918017 204	191A338	191A463	9-18	311A336	A
3198017	399A397	659A463D35*	25-35	311A336	C
3998017 204	399A397	659A463D35*	25-35	311A336	C
1968017 204	196A397	659A463D35*	25-35	311A336	C
1998013 204	196A397	659A463D35*	25-35	311A336	C

Multicontacts configuration without Earth contact

Range		Receptacle	Box	Sleeve
DSN 24C	24 x 5 A	6104240 352	613A053	613A027
DSN 37C	37 x 5 A	6104370 352	616A053	616A027
DN 9C	9 x 25 A	1914090 R	191A053	191A027
DN 20C	20 x 25 A	1964200 R	196A053	196A027

**Other cable dia are available on request: Please consult us for part Nrs.

* D35 = Cable dia. 25 to 35 mm - D45 = Cable dia. 35 to 45 mm - D49 = Cable dia. 45 to 49 mm

A = Shark's fin

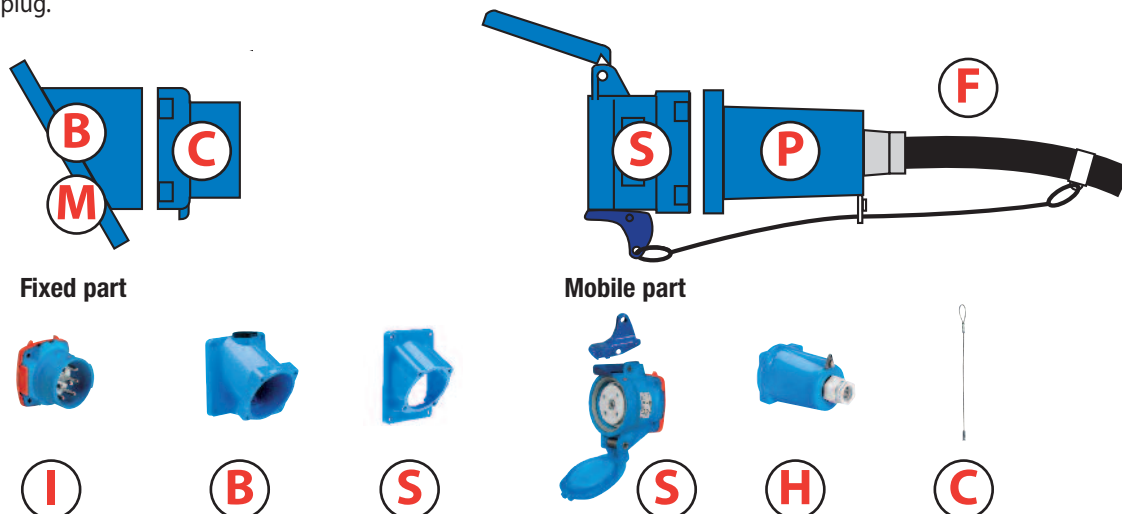
C = Plug release cam

For high devices, a self-ejecting mechanism combining a closing mechanism with a draw lever is available. Part no.:

DN6, DN9, DN20C = 196A347
DS9 = 399A347
DS2 = 392A347

Self-ejecting connectors: handle + receptacle (female)

A hook called "finned" is located on the connector. It is connected by a cable to the power cable. A pull on this rope actuates the hook that releases the plug.



3P+N+E (380-440 V) configuration

Range	Inlet	Box	Sleeve
DSN1 20 A	6118017	611A053	611A027
DSN3 32 A	6138017	613A053	613A027
DSN6 63 A	6168017	616A053	616A027
DS1 30 A	3118017	311A053	311A027
DS3 50 A	3138017	313A053	313A027
DS6 GRP 90 A	3168017	316A053	316A027
DS6 Metal 90 A	3968017	396A053	396A027
DS9 GRP 150 A	3198017	399A053	319A027
DS9 Metal 150 A	3998017 204	399A053	399A027
DN8 GRP 30 A	1188017 204	118A053	118A027
DN8 Metal 30 A	1988017 204	198A053	198A027
DN1 30 A	1918017 204	191A053	191A027
DN3 30 A	1938017 204	193A053	193A027
DN6 30 A	1968017 204	196A053	196A027
DN9* 30 A	1998013 204	199A053	199A027

* 3P+E Configuration

For **3P+E (380-440 V)** receptacle and inlet, replace 017 for 013, e.g. : DSN1 inlet = 61180**13**, DSN1 receptacle = 61140**13 365**

For **1P+N+E (220-250 V)** receptacle and inlet, replace 017 for 013, e.g. : DSN1 inlet = 61180**15**, DSN1 receptacle = 61140**15 365**

** Other cable dia are available on request: Please consult us for part Nrs.

* D35 = Cable dia. 25 to 35 mm - D45 = Cable dia. 35 to 45 mm - D49 = Cable dia. 45 to 49 mm

Multicontacts configuration without Earth contact

Range	Inlet	Box	Sleeve
DSN24C 24 x 5 A	6108240	613A053	613A027
DSN37C 37 x 5 A	6108370	616A053	616A027
DN9C 9 x 25 A	1918090 204	191A053	191A027
DN20C 20 x 25 A	1968200 204	196A053	196A027

** Other cable dia are available on request: Please consult us for part Nrs.

* D35 = Cable dia. 25 to 35 mm - D45 = Cable dia. 35 to 45 mm - D49 = Cable dia. 45 to 49 mm

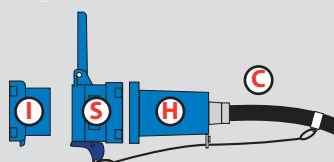
Find all the inlet caps in the ranges corresponding pages



If you wish to fix the inlet directly onto the vehicle without a wall box or inclined sleeve?

then a receptacle with a 180 degree opening lid will be needed. This option changes the receptacle suffix "354" to "136" and "365" to "376".

For details please contact us.

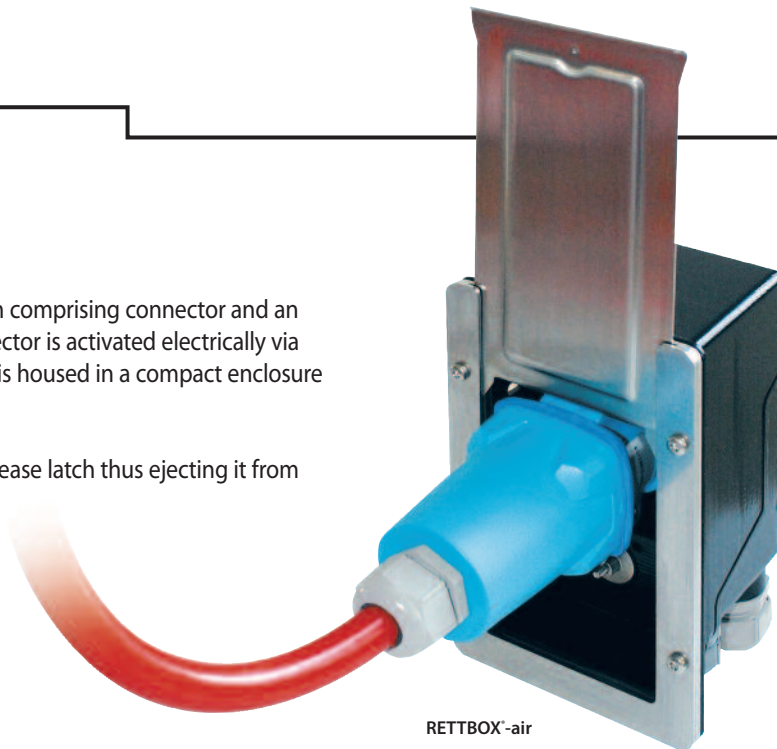


Electrical System

RETTBOX® and RETTBOX®-air Boxes and connector

The RETTBOX® is an electromagnetic self-eject system comprising connector and an inlet mounted in a box. The self-ejection of the connector is activated electrically via the vehicle's ignition system. The release mechanism is housed in a compact enclosure fitted into the vehicle.

On ignition, a solenoid plunger lifts the receptacle release latch thus ejecting it from the inlet.



RETTBOX®-air

Main features:

	RETTBOX® (20A)	RETTBOX®-air (20A)	RETTBOX®-air (32A)
Front	stainless steel	stainless steel	stainless steel
Box	resin	resin	stainless steel
Protection mode (trapdoor closed)	IP55	IP55	IP55
Self-closing connector	IP55	IP55	IP55
Front dimensions (LxH)	107 x 180	107 x 180	123 x 188
Box dimensions (LxHxW)	83 x 163 x 94	83 x 163 x 94	103 x 173 x 145
Connector cable supplied	4 m	4 m *	4 m *
Auxiliary contacts	optional	-	optional
Weight (excluding connector)	1200 g	1200 g	3200 g
Built-in Decontactor	20 A	20 A	32 A
Compressed air duct	no	up to 13 bar	up to 13 bar
Cable	flexible	ultra flexible	ultra flexible

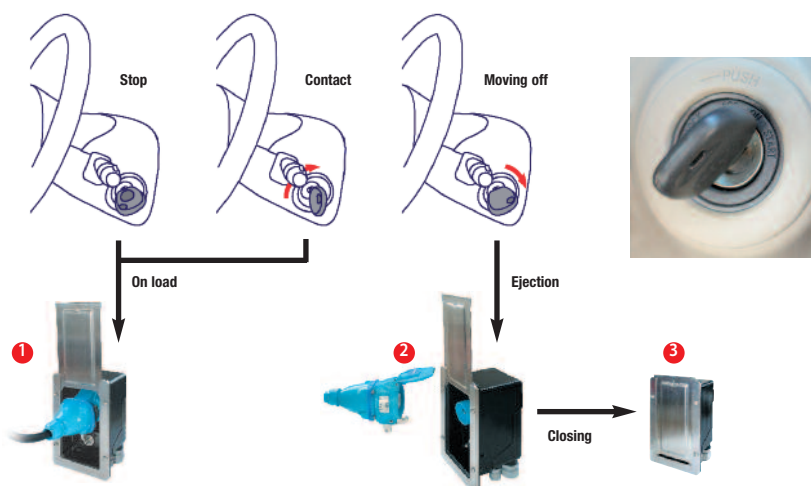
* with duct for compressed air



RETTBOX®-air: the conductor for compressed air is integral within the electrical cable



RETTBOX®



**RETTBOX® - 20 A**

Rettbox enclosure with inlet (20A) supplied with 4 m cable (other length of cable on request)

**Connector - 20 A**

supplied with 4 m cable

Enclosure	Voltage	Polarity	Part no.	Voltage	Polarity	Part no.
Rettbox with 12 V relay and male inlet	230 V	1P+N+E	6116015RK412U	230 V	1P+N+E	6113015RK4L
Rettbox with 24 V relay and male inlet	230 V	1P+N+E	6116015RK424U	230 V	1P+N+E	6113015RK4L
Rettbox with 12 V relay and male inlet	400 V	3P+N+E	6116017RK412U	400 V	3P+N+E	6113017RK4L
Rettbox with 24 V relay and male inlet	400 V	3P+N+E	6116017RK424U	400 V	3P+N+E	6113017RK4L
Rettbox with 12 V relay and male inlet	230 V	1P+N+E+2aux.	6116175RK412U	230 V	1P+N+E+2aux.	6113175RK4L
Rettbox with 24 V relay and male inlet	230 V	1P+N+E+2aux.	6116175RK424U	230 V	1P+N+E+2aux.	6113175RK4L
Rettbox with 12 V relay and male inlet	12 V	2P d.c.	6116059RK412U	12 V	2P d.c.	6113059RK4L
Rettbox with 24 V relay and male inlet	24 V	2P d.c.	6116089RK424U	24 V	2P d.c.	6113089RK4L

**RETTBOX®-air - 20 A**

Rettbox-air enclosure with inlet (20 A) supplied with 4 m (other length of cable on request) - compressed air duct to 13 bars

**Connector - 20 A**

supplied with 4 m cable

Enclosure	Voltage	Polarity	Part no.	Voltage	Polarity	Part no.
Rettbox with 12 V relay and male inlet	230 V	1P+N+E	6116015AK412U	230 V	1P+N+E	6113015AK4L
Rettbox with 24 V relay and male inlet	230 V	1P+N+E	6116015AK424U	230 V	1P+N+E	6113015AK4L
Rettbox with 12 V relay and male inlet	12 V	2P d.c.	6116059AK412U	12 V	2P d.c.	6113059AK4L
Rettbox with 24 V relay and male inlet	24 V	2P d.c.	6116089AK424U	24 V	2P d.c.	6113089AK4L

**RETTBOX®-air - 32 A**

Rettbox-air enclosure with inlet (32 A) supplied with 4 m (other length of cable on request) - compressed air duct to 13 bars

**Connector- 32 A**

supplied with 4 m cable

Enclosure	Voltage	Polarity	Part no.	Voltage	Polarity	Part no.
Rettbox-air with 24 V relay and male inlet	230 V	1P+N+E+3aux.	3816187AK424U	230 V	1P+N+E+3aux.	3813187AK4L
Rettbox-air with 24 V relay and male inlet	400 V	3P+N+E+1aux.	3816247AK424U	400 V	3P+N+E+1aux.	3813247AK4L

Additional facilities**Leather pull-grip**

Rettbox®	Rettbox®-air 20 A	Rettbox®-air 32 A
61 1A ZIE	61 1A ZIE	38 1A ZIE

Ceiling bracket

The ejecting receptacle is available with 5, 6, 7, 8 or 9 m of cable. A ceiling bracket is available.



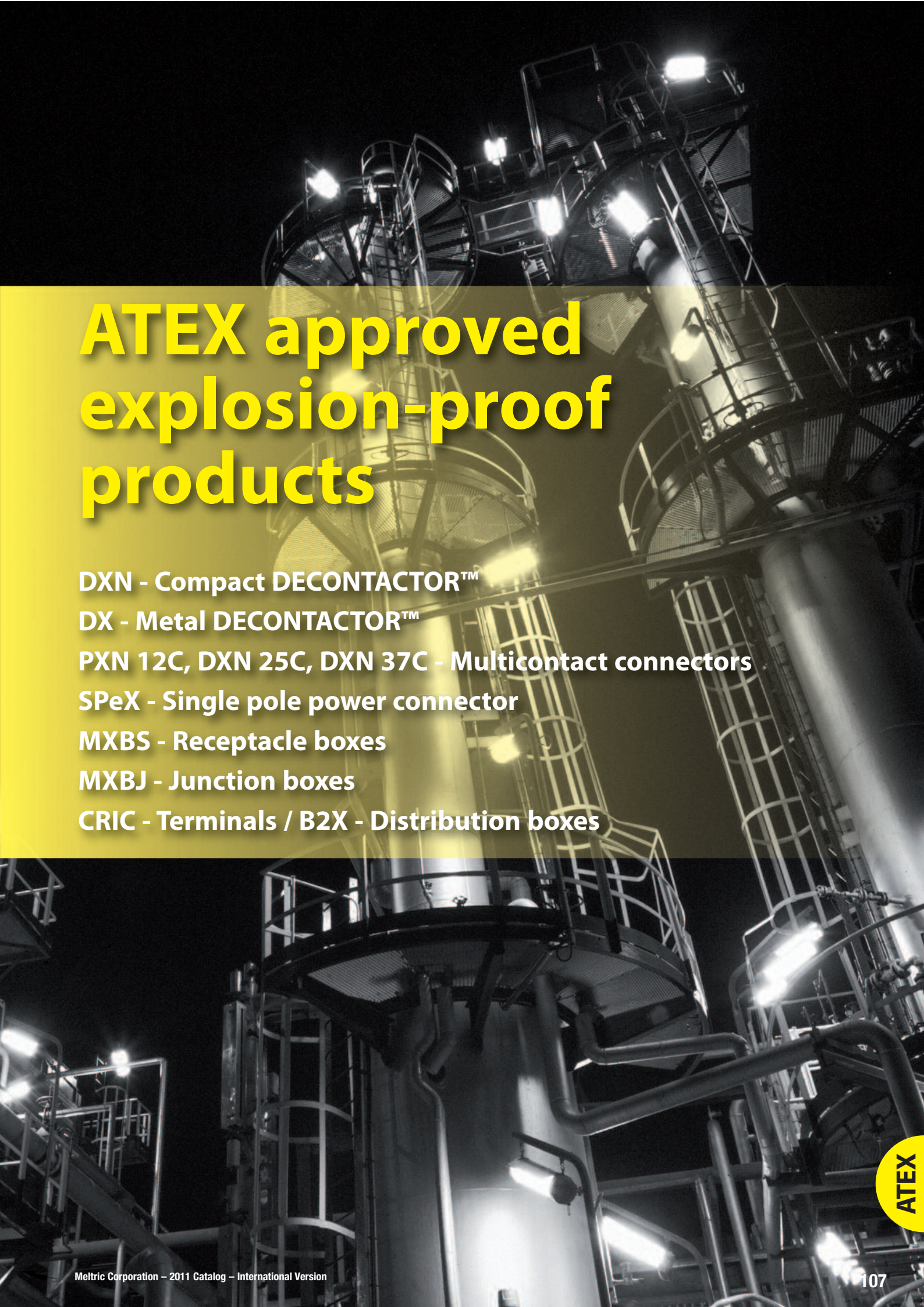
Rettbox®	Rettbox®-air 20 A	Rettbox®-air 32 A
61 1A HUT RRR L	61 1A HUT AAA L	38 1A HUT AAA L

**Supply indicator (LED)**

The box can be fitted with a control light. Please contact us.







ATEX approved explosion-proof products

DXN - Compact DECONTACTOR™

DX - Metal DECONTACTOR™

PXN 12C, DXN 25C, DXN 37C - Multicontact connectors

SPeX - Single pole power connector

MXBS - Receptacle boxes

MXBJ - Junction boxes

CRIC - Terminals / B2X - Distribution boxes

EXPLOSION-PROOF PRODUCTS

Introduction

Particular standards and directives apply when flammable gases, vapours or dust are likely to be present in the environment and cause an explosion.

Plugs and receptacles intended to operate in such environments must have obtained a certificate of conformity to these standards from an official test house, assuring that they will not cause a fire or an explosion in the surrounding atmosphere.

Standards

- IEC 60079-0: Products for use in explosive gas atmospheres - General rules
- IEC 60079-1: Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d".
- IEC 60079-7: Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
- IEC 61241-0: Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
- IEC 61241-0: Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

Products complying with these requirements bear the symbol  and the marking "Ex".

Directives

In Europe, two directives apply to explosion-proof products:

ATEX 94/9/CE Directive (ATmospheres EXplosive)

Since July 1st 2003, manufacturers may only sell products that comply with the ATEX 94/9/CE Directive. This directive sets the essential safety requirements and imposes a classification of the products in categories, depending on their level of protection. A distinction is now made according to the nature of the explosive atmosphere: gas or dust.

This directive requires:

- For products: a type certification, a declaration of conformity and an instruction manual, allowing to affix the  marking,
- For the manufacturers: a quality assurance system audited annually by a notified body, and the designation of an authorised person called the ATEX Manager.

1999/92/CE Directive

Since July 1st 2003, this directive imposes on users of explosion-proof products:

- To evaluate the risk of explosion on their site, to define zones and to implement minimum guidelines to ensure workers' safety,
- To purchase only products according to ATEX 94/9/CE directive for new installations as well as extensions to existing installations.

Products designed according to the harmonised standards are deemed to comply with the essential safety and health requirements set in the ATEX Directive.

Protection mode(s)

Depending on the type of product, there are several modes of protection intended to eliminate the risk of explosion: increased safety "e", internal overpressure "p", oil immersion "o", explosion-proof chamber "d", powder filling "q", encapsulation "m", etc.

Whatever the protection mode(s), products intended to operate in potentially explosive atmospheres must:

- Prevent the formation of an arc likely to cause an explosion,
- Resist shocks, to a higher degree than that is required for normal industrial products,
- Not be likely to accumulate electrostatic charges that may generate a spark,
- Have, within an ambient temperature range of at least -20 °C / +40 °C, a surface temperature below the self ignition temperature of the surrounding atmosphere or of the layer of dust that may have accumulated on the product.

Protection mode for plugs and receptacles

Plugs and receptacles with integral switching comprise two distinct areas, that require the implementation of two different modes of protection:

- An area which contains the contacts used to establish and break the current and where arcs or sparks occur in normal operation when a plug is inserted or withdrawn. This area requires a "d" explosion-proof chamber in order to contain the arc, to resist the overpressure of an internal explosion and to laminate the flame of this explosion so that it does not propagate to the surrounding atmosphere,

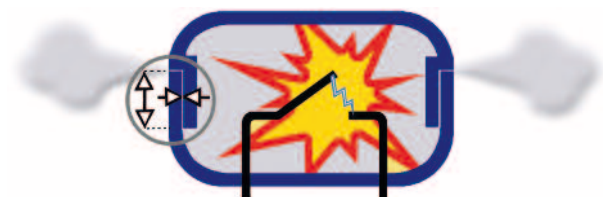
- Areas where there are no arcs or sparks, where conductors are connected to the plug and receptacle terminals. These areas use the mode of protection increased safety “e”, to prevent any failure.

Plugs and receptacles without integral switching use the sole mode of protection by increased safety “e”. They are fitted with a locking device and warning labels to prevent any accidental disconnection under load.

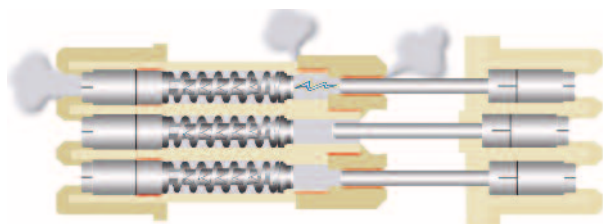
“d” explosion-proof enclosure

The arc chamber that contains the contacts used to make and break the circuit must constitute an explosion-proof enclosure, resisting the effects of a possible internal explosion. IEC 60079-1 standard defines the characteristics of such a ‘d’ explosion-proof chamber that must:

- Resist the pressure of an explosion,
- Allow this pressure to escape through interstices precisely rated in length and thickness, in order to extinguish the flame so that it does not reach the outside of the enclosure.



These safety experimental maximum interstices, also called flamepath, are defined according to the explosive substance and the internal volume of the envelope.



DXN1 plug and receptacle interior mouldings and contacts: the various flamepaths (in red) extinguish the flame and allow expulsion of burnt gases in case of an explosion when an arc strikes.

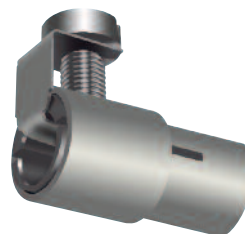
Eg: in an environment that may contain Acetylene and with an inner volume less than to 100 cm³, the minimum length of the flamepath is 6 mm and the maximum interstice is 0.1 mm.

“e” increased safety

The expensive requirements of the “d” mode of protection are not necessary for the parts of the product where conductors are terminated plug side and receptacle side as well as for plugs and receptacles that are not likely to create a spark. Particular precautions, called increased safety “e”, are anyhow required in order to:

- Provide proper termination of cables in the enclosures,
- Not to damage conductors on tightening and to prevent the loosening of terminals in case of shock, vibration, thermal cycling or conductor yielding,
- Prevent short-circuits by defining air and creepage distances larger than those required from industrial products.

Plugs and receptacles, which combine explosion proof “d” chambers for the switching contacts and increased safety for cables and conductors termination, are identified by the symbol **Ex de**.



DXN: a captive pad protrudes into the terminal chamber to protect the strands of the conductors from contact with the tightening screw

Plugs and receptacles whose sole mode of protection is increased safety are identified by the symbol **Ex e**.

Protection mode tD against dust



Plugs and receptacles intended for use in the presence of flammable dust, either in suspension or accumulated, must be protected against dust ingress.

They must bear details of their maximum surface temperature, in a given range of ambient temperatures (Ta), taking into account the layer of dust that may accumulate.

This mode of protection by dust-proof envelope is identified by the symbol tD A21 (formerly DIP: Dust Ignition Proof) completed by the IP rating.

Example of marking: **Ex tD A21 IP6X T66 °C**
-40 °C ≤ Ta ≤ +60 °C

Product Groups

Electrical products are classified according to the inner volume of their explosion-proof chamber, if any, and the dimensions of their flame path, in group I, IIA, IIB and IIC, to chemical products having similar explosive characteristics.

- Plugs and receptacles of Group I are suitable for firedamp mines (natural methane).
- Plugs and receptacles of Group II are intended for surface applications.
- Group II is divided in IIA, IIB and IIC, corresponding to a decreasing tolerance of the flame path in such a way that a IIC product is automatically suitable for groups IIA and IIB.
 - Group IIA: Accessories intended to operate in presence of the less explosive substances: industrial methane, propane, butane, benzene, kerosene, gasoline, ethanol, acetone ...
 - Group IIB: ethylene, methacrylate, cyclopropane ...
 - Group IIC: Accessories intended to operate in presence of the most explosive substances: hydrogen, acetylene, ethyl nitrate ...

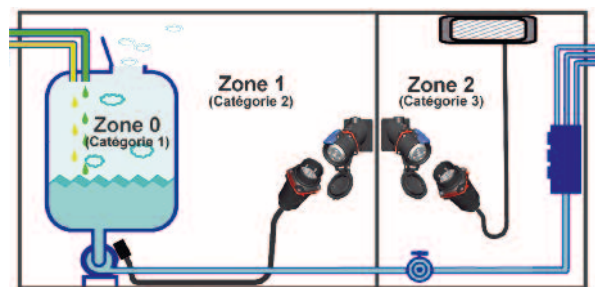
The marking of “de” products (DXN, DX, PX) is completed by the indication of their group, according to their flame path and inner volume, e.g. **Ex de IIC**.

The marking of “e” products (PXN12C, DXN37C, SPeX) is completed by the sole indication of group II as they have no flame path and inner volume which determine the sub-group, e.g. **Ex e II**. They can be used in the presence of all gases (except natural methane in mines that requires group I products).

Product categories and explosive zones

There are three categories of products, corresponding to six explosive zones, gas or dust:

- Products in category 1** are intended for Zone 0 (gas) and/or Zone 20 (dust): zones with a permanent explosive atmosphere. These zones cannot be equipped with receptacles.
- Products in category 2** are intended for Zone 1 (gas) and/or Zone 21 (dust): zones where an explosive atmosphere is likely to appear in normal operation. These zones can be equipped with receptacles.
- Products in category 3** are intended for Zone 2 (gas) and/or Zone 22 (dust): zones where an explosive atmosphere may only appear accidentally, in case of malfunction of the installation. These zones can be equipped with  receptacles.



Considering the increasing risk, products of category 2 can be used where products of category 3 are required.

The marking on the product is completed by the indication of their permitted zones.

Eg: 2G = zones 1 & 2
3D = zone 22
2G/D = zones 1, 2, 21 & 22

PRODUCT CATEGORY According to 94/9/CE Directive	ZONES	
	Flammable gas, vapour or mist	Cloud of flammable dust
Category 1: Permanent or frequent presence	Zone 0 No receptacle	Zone 20 No receptacle
Category 2: Occasional (normal) presence	Zone 1 2G or 2G/D receptacle	Zone 21 2D or 2G/D receptacle
Category 3: Irregular / short term presence (abnormal)	Zone 2 3G or 3G/D receptacle	Zone 22 3D or 3G/D receptacle

Ex II 2 G/D means that the accessory can be used in zones 1, 2, 21 & 22

Gas Temperature classes

All chemicals listed in the various groups have a specific self-ignition temperature.

Electrical products must bear details of their maximum surface temperature, in a specified maximum ambient temperature (Ta).

Indication is given by a capital “T” followed by a number from 1 to 6, in decreasing order of temperature:

CATEGORY	MAXIMUM SURFACE TEMPERATURE
T6	≤ 85 °C*
T5	≤ 100 °C
T4	≤ 135 °C
T3	≤ 200 °C
T2	≤ 300 °C
T1	< 450 °C

* As an example, a T6 classification at 40 °C means that the maximum heating will be 40 K with 5 K safety margin, in an ambient temperature of 40 °C. The maximum surface temperature of the device must be less than the temperature of self-ignition of the gas found in the hazardous area.

Dust surface temperature marking

Flammable dust has a specific self-ignition temperature.

Electrical products must bear the indication of their maximum surface temperature, in a specified maximum ambient temperature (Ta). This temperature takes into account the layer of dust likely to accumulate on the accessory.

Indication is given by a capital "T" followed by the surface temperature in °C, to distinguish it from the gas temperature class, e.g. T107 °C.

Example of markings for a DXN1

Listed manufacturer and production site

MARECHAL ELECTRIC MAROMME

Ex de IIC tD A21

-40 °C ≤ Ta ≤ +60 °C T5 T90 °C
-40 °C ≤ Ta ≤ +40 °C T6 T70 °C
IECEX LCI 09.0005 X / LCIE 99 ATEX 6027 X

Ex Accessory intended for explosive atmospheres II Accessory of group II = surface applications 2 Accessory of category 2 = for zones 1 and/or 21 G/D Nature of atmosphere: G: Gas and D: dust Ex Protection against explosions 'Gas' standards: IEC/EN 60079-0, -1 & -7 'Dust' standards: EN 61241-0 & -1 de Combined protection mode d & e d: explosion-proof enclosure (IEC/EN 60079-0 & -1) e: increased safety (IEC/EN 60079-0 & -7) IIC Accessory of group IIC: (Hydrogen, acetylene, ethyl nitrate) tD Mode of protection against dust: tD = protection by enclosure A21 IP test for zone 21: IP6X	T5/T6 Gas surface temperature T6 : ≤ 85 °C with Ta between -40 °C and +40 °C T5 : ≤ 100 °C with Ta between -40 and +60 °C T °C Dust surface temperature Surface T° ≤ 70 °C with Ta between -40 °C & +40 °C Surface T° ≤ 90 °C with Ta between -40 °C & +60 °C LCIE 99 ATEX 6027 X ATEX certificate number provided by notified body (LCIE-Veritas) IECEX LCI 09.0005 X Certificate of conformity to IEC standards (Certification scheme IECEX) X Indication of particular condition(s) of use, if any
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These markings are completed with the following indications (e.g. DXN3 sticker):

Type - Part number

Contact configuration – main circuit

Assigned voltage

Nominal current

CE marking = compliance with European directives

DXN3 **2534017972**

3P+N+T	+2AUX.
Ue 400 V 50Hz	550V
Ie 32A	5A

CE **avec une**
fiche
Marechal

IP66/IP67
19/11

Contact configuration secondary circuit (if any)

IP rating

Week / year of manufacture

DXN

20 A

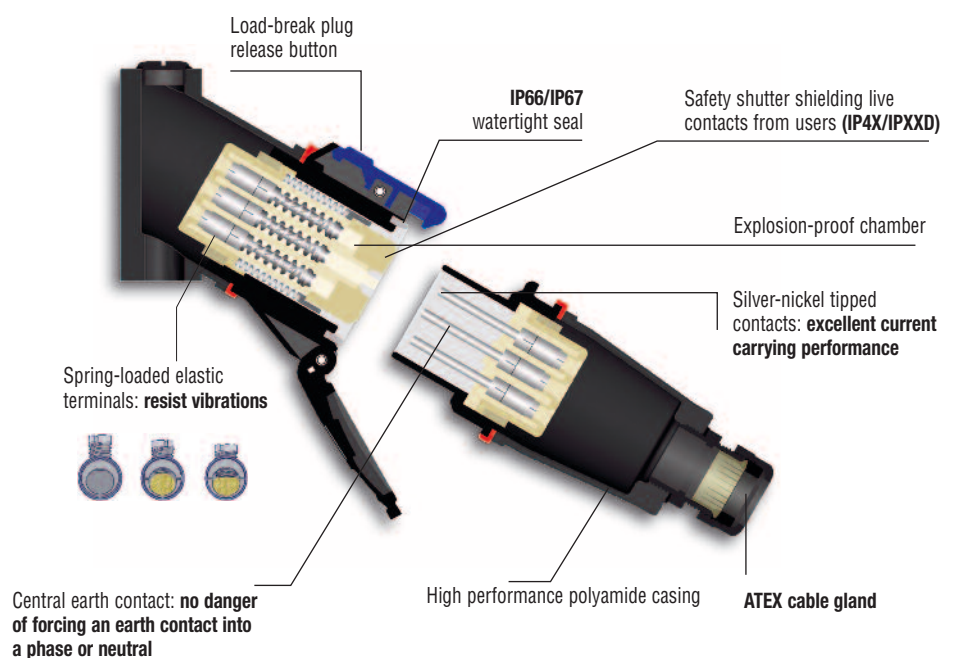
32 A

63 A

- Explosive atmospheres
- IP66/IP67 as standard
- Compact & robust design
- Safe & easy operation

DXN Decontactors are designed for explosive atmospheres, with 'de' protection mode. They comply with the ATEX 94/9/CE directive. They can be used in zones 1 & 2 (Gas) and zones 21 & 22 (Dust). They are certified according to IEC Ex.

Mechanical features



SPECIFICATION

IP66/IP67 plug and receptacle for explosive atmospheres (ATEX) with integral switching device, comply with BECMA international standard.



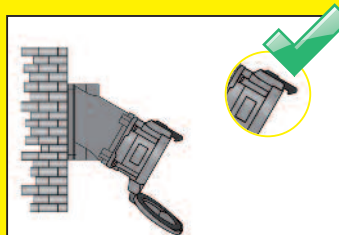
COMPACT Ex DECONTACTOR™



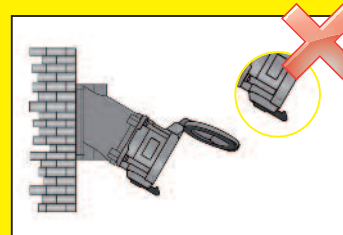
Equipment on oil rig



Sugar silo conveyor



Mounting hook up: **proper**



Mounting hook down: **improper**

Technical features

Plugs and receptacles with integral load-break switching capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

	DXN1	DXN3	DXN6
Rated current (In)	20 A	32 A	63 A
Maximum Voltage	550 V	750 V	750 V
Auxiliary contacts (optional)	-	2	2
Keying positions (°)	24	24	24
Ambient temperature	See sticker - for all DXN range		
Protection	“de”	“de”	“de”
ATEX zones	Zones 1 & 2 (gas) Zones 21 & 22 (dusts) - for all DXN range		

(°) To discriminate between different power supplies and applications

Regulatory features

DXN Decontactors comply with:

- The ATEX 94/9/CE directive,
- CEI 60079-0 (2006), CEI 60079-1 (2003), CEI 60079-7 (2006), CEI 61241-0 (2004) & CEI 61241-1 (2004) International standards,
- CEI 60309-1 & CEI 60309-4 European and International standards (plugs and receptacles for industrial purposes),
- The European Low Voltage Directive 2006/95/CE,
- The European ‘Machine Directive’ regarding equipment isolation,
- The French NF C 15-100 standard,
- The French decree n°88-1056 dated 14th November 1988,
- The decrees relating to workers’ protection in Belgium, Spain and Italy.

Also certified by VERITAS LCIE, KGS KOREA, GOST and CSA (French, Corean, Russian and US & Canadian*) and by BUREAU VERITAS MARINE inspection laboratories.

(*) for North-American markets.





Typical configuration:

Wall mounted receptacle

Plug



Plugs and receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	20 A
Maximum voltage	550 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK08

Flexible wiring (min - max)	1 - 4 mm ²
Stranded wiring (min - max)	1,5 - 6 mm ²
Other wiring on request	
Keying positions	24
Protection mode	de
ATEX zones	1 & 2, 21 & 22

Ambient temperature:

Gas temperature classes	T6 : surface T° ≤ 85 °C for an ambient T° between -40 and +40 °C
	T5 : surface T° ≤ 100 °C for an ambient T° between -40 and +60 °C
Dust surface temperature classes	surface T° ≤ 70 °C for an ambient T° between -40 and +40 °C
	surface T° ≤ 90 °C for an ambient T° between -40 and +60 °C

Comply with EN 60309-1	20 A / 550 V
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! Each receptacle outlet or receptacle connector must be associated with a box or a handle.

Other voltages and polarities are available (See p. 5)

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	25 14 08A
110 - 130 V	1P+N+E	25 14 035
220 - 250 V	1P+N+E	25 14 015
380 - 440 V	3P+E	25 14 013
380 - 440 V	3P+N+E	25 14 017
480 - 500 V	3P+E	25 14 093
480 - 500 V	3P+N+E	25 14 097

Inlet with cap (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	25 18 08A
110 - 130 V	1P+N+E	25 18 035
220 - 250 V	1P+N+E	25 18 015
380 - 440 V	3P+E	25 18 013
380 - 440 V	3P+N+E	25 18 017
480 - 500 V	3P+E	25 18 093
480 - 500 V	3P+N+E	25 18 097

MARECHAL ELECTRIC MAROMME
 II2 G/D Ex de IIC tD A21
 -40 °C ≤ Ta ≤ +60 °C T5 T90 °C
 -40 °C ≤ Ta ≤ +40 °C T6 T70 °C
 IECEx LCI 09.0005X / LCIE 99 ATEX 6027 X

Boxes

Ex cable gland included



Wall box
poly 30°



Wall box
poly 70° *

Ex cable gland

M20	25 1A B53	10 - 14 mm	25 1A B58	10 - 14 mm
M25	25 1A B53 25P	12 - 18 mm	25 1A B58 25P	12 - 18 mm
M32			25 1A B58 32P	16 - 25 mm

* For alternatives with Earth continuity or several entries, please contact us

Sleeves



Inclined
poly 30°



Inclined
poly 70°

25 1A 027

25 1A 757

Handle

Ex cable gland included



Straight
poly

Ex cable gland

M20	25 1A 753	10 - 14 mm
M25	25 1A 253 25P	12 - 18 mm
M32	25 1A 253 32P	18 - 25 mm

Options & accessories

Part no.

180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18



Locking with shaft for
3 padlocks - Ø 4 mm
(padlocks not
supplied)

Recept no. + 844



IP67 inlet cap
25 1A 126



Handle or Box equipped with ATEX
metal entry with Earth continuity.
Handle : 25 1A 253 Z0405
Box : Consult us

Compatibility with DSN1 receptacle



The DXN1 'de' plugs (20 A) can be connected to the industrial DSN1 (20 A) receptacle and connectors. Thus, you can move mobile Ex devices equipped with a DXN1 plug in and out of your Ex zones.
Consult us.

Disconnect safely



Our contact design allows Decontactors to be disconnected quickly and safely.

DXN3 DECONTACTOR™

HIGH PERFORMANCE
POLY CASING

up to **32 A**

IP66
IP67



Typical configuration:

Wall mounted receptacle



Plug



Wall box poly 70°
25 3A B58



Receptacle
25 34 017



Straight handle poly
25 3A 753



Inlet
25 38 017

Plugs and receptacles with
load-break capability
complying with
IEC EN 60309-1 and
IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	32 A
Maximum voltage	750 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK08

Flexible wiring (min - max)	2,5 - 10 mm ²
Stranded wiring (min - max)	2,5 - 16 mm ²
Other wiring on request	
Keying positions	24
Protection mode	de
ATEX zones	1 & 2, 21 & 22

Ambient temperature:

Gas temperature classes	T6 : surface T° ≤ 85 °C for an ambient T° between -40 and +40 °C
	T4 : surface T° ≤ 135 °C for an ambient T° between -40 and +60 °C
Dust surface temperature classes	surface T° ≤ 78 °C for an ambient T° between -40 and +40 °C
	surface T° ≤ 98 °C for an ambient T° between -40 and +60 °C

Comply with EN 60309-1

32 A / 750 V

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	25 34 08A
110 - 130 V	1P+N+E	25 34 035
220 - 250 V	1P+N+E	25 34 015
380 - 440 V	3P+E	25 34 013
380 - 440 V	3P+N+E	25 34 017
480 - 500 V	3P+E	25 34 093
480 - 500 V	3P+N+E	25 34 097

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	25 38 08A
110 - 130 V	1P+N+E	25 38 035
220 - 250 V	1P+N+E	25 38 015
380 - 440 V	3P+E	25 38 013
380 - 440 V	3P+N+E	25 38 017
480 - 500 V	3P+E	25 38 093
480 - 500 V	3P+N+E	25 38 097

⚠ Each receptacle outlet
or receptacle connector
must be associated with a
box or a handle.

Other voltages and
polarities are available
(See p. 5)



Receptacle with auxiliary contacts
(Maximum voltage 550 V)

With 2 auxiliary contacts (5 A / 550 V) Recept no. + 972



Inlet with auxiliary contacts
(Maximum voltage 550 V)

With 2 auxiliary contacts (5 A / 550 V) Inlet no. + 972

MARECHAL ELECTRIC MAROMME
 II2 G/D Ex de IIC tD A21
 -40 °C ≤ Ta ≤ +60 °C T4 T98 °C
 -40 °C ≤ Ta ≤ +40 °C T6 T78 °C
 IECEx LCI 09.0006 / LCIE 05 ATEX 6149

Boxes

Ex cable gland included



Wall box
poly 30°



Wall box
poly 70° *

Ex cable gland

M20	25 3A B53	10 - 14 mm	25 3A B58 20P	10 - 14 mm
M25	25 3A B53 25P	12 - 18 mm	25 3A B58	12 - 18 mm
M32			25 3A B58 32P	16 - 25 mm

* For alternatives with Earth continuity or several entries, please contact us

Sleeves



Inclined
poly 30°



Inclined
poly 70°

25 3A 027

25 3A 757

Handle

Ex cable gland included



Straight
poly

Ex cable gland

M20	25 3A 753	10 - 14 mm
M25	25 3A 783	12 - 18 mm
M32	25 3A 253 32P	16 - 25 mm
M40	25 3A 253 40P	24 - 34 mm

* For alternatives with Earth continuity, please contact us

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18



Locking with shaft for
3 padlocks - Ø 4 mm
(padlocks not
supplied)

Recept no. + 844



IP67 inlet cap
25 3A 126

Portable stainless steel box

Consult us



Compatibility with DSN3 receptacle



The DXN3 plugs (32 A) can be connected to the industrial DSN3 (32 A) receptacle and connectors. Thus, you can move mobile Ex devices equipped with a DXN3 plug in and out of your Ex zones.
Consult us.

Zoom B2X



B2X distribution boxes can be equipped with:

- 2 DXN1, or
- 1 DXN1 and 1 DXN3

DXN6

DECONTACTOR™

HIGH PERFORMANCE
POLY CASING

up to **63 A**

IP66

IP67



Typical configuration:

Wall mounted receptacle



Plug



Wall box poly 70°
25 6A B58



Receptacle
25 64 017



Straight handle poly
25 6A 753



Inlet
25 68 017

Plugs and receptacles with
load-break capability
complying with
IEC EN 60309-1 and
IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	63 A
Maximum voltage	750 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK08

Flexible wiring (min - max)	6 - 16 mm ²
Stranded wiring (min - max)	6 - 25 mm ²
Other wiring on request	
Keying positions	24
Protection mode	de
ATEX zones	1 & 2, 21 & 22

Ambient temperature:

Gas temperature classes	T5 : surface T° ≤ 100 °C for an ambient T° between -40 and +40 °C
	T4 : surface T° ≤ 135 °C for an ambient T° between -40 and +60 °C
Dust surface temperature classes	surface T° ≤ 87 °C for an ambient T° between -40 and +40 °C
	surface T° ≤ 107 °C for an ambient T° between -40 and +60 °C

Comply with EN 60309-1	63 A / 750 V
------------------------	--------------



Each receptacle outlet
or receptacle connector
must be associated with a
box or a handle.

Other voltages and
polarities are available
(See p. 5)

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	25 64 08A
110 - 130 V	1P+N+E	25 64 035
220 - 250 V	1P+N+E	25 64 015
380 - 440 V	3P+E	25 64 013
380 - 440 V	3P+N+E	25 64 017
480 - 500 V	3P+E	25 64 093
480 - 500 V	3P+N+E	25 64 097

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
20 - 24 V	2P	25 68 08A
110 - 130 V	1P+N+E	25 68 035
220 - 250 V	1P+N+E	25 68 015
380 - 440 V	3P+E	25 68 013
380 - 440 V	3P+N+E	25 68 017
480 - 500 V	3P+E	25 68 093
480 - 500 V	3P+N+E	25 68 097



Receptacle with auxiliary contacts (Maximum voltage 550 V)

With 2 auxiliary contacts (5 A / 550 V) Recept no. + 972



Inlet with auxiliary contacts (Maximum voltage 550 V)

With 2 auxiliary contacts (5 A / 550 V) Inlet no. + 972

MARECHAL ELECTRIC MAROMME
 II2 G/D Ex de IIC tD A21
 -40 °C ≤ Ta ≤ +60 °C T4 T107 °C
 -40 °C ≤ Ta ≤ +40 °C T5 T87 °C
 IECEx LCI 09.0007 / LCIE 05 ATEX 6150

Boxes

Ex cable gland included



**Wall box
poly 30°**



**Wall box
poly 70° ***

Ex cable gland			
M20			25 6A B58 20P 10 - 14 mm
M25	25 6A B53	12 - 18 mm	25 6A B58 25P 12 - 18 mm
M32			25 6A B58 16 - 25 mm
M40			25 6A B58 40P 24 - 34 mm

* For alternatives with Earth continuity or several entries, please contact us

Sleeves



**Inclined
poly 30°**



**Inclined
poly 70°**

25 6A 027	25 6A 757
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Handle

Ex cable gland included



**Straight
poly**

Ex cable gland		
M20	25 6A 253 20P	10 - 14 mm
M25	25 6A 753	12 - 18 mm
M32	25 6A 253 32P	16 - 25 mm
M40	25 6A 253 40P	24 - 34 mm

* For alternatives with Earth continuity, please contact us

Options & accessories

	Part no.
180° opening lid	Recept no. + 10
Self-returning lid	Recept no. + R
180° opening and self-returning lid	Recept no. + 18



Locking with shaft for
3 padlocks - Ø 4 mm
(padlocks not
supplied)

Recept no. + 844



IP67 inlet cap
25 6A 126



Handle or Box equipped with ATEX
metal entry with Earth continuity.

Consult us

DXN6 as distribution box



DXN3 & DXN6 with 2 auxiliary contacts



2 auxiliary contacts are available for signal and control
purposes, as well for auxiliary circuits such as warning lights.

DX

20 A

32 A

63 A

125 A

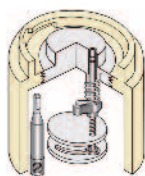
200 A

- Explosive atmospheres
- IP 65 as standard
- Up to 200 A
- Metal casing

DX Decontactors are designed for explosive atmospheres, with 'de' protection mode. They comply with the ATEX 94/9/CE directive. They can be used in zones 1 & 2 (Gas) and zones 21 & 22 (Dust). They are certified according to IEC Ex.

Mechanical features

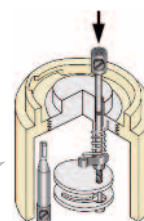
- Enclosure "d": during connection and disconnection, electric arc is contained



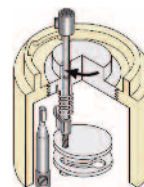
Interior moulding in the rest position: Cut view of the explosion-proof chamber.

- Aluminium casing
- IK10 resistance to shocks
- External male contacts: these pins engage with the spring-loaded silver-nickel butt contacts inside the receptacle
- IP65 lid
- ON/OFF indicator
- Design ensures conformity to interlock standard EN 60309-4 : no live contacts.

Connection :

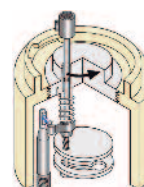


Receptacle with a plug contact engaged: Closing of the dead butt-contact(s) ; unlocking of the interior moulding.



Plug rotation: Tensioning of switch springs. Sudden closure of switch contacts.

Disconnection :

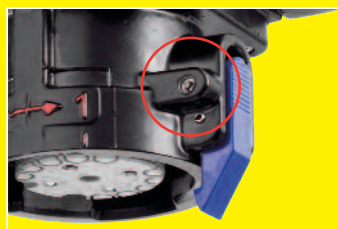
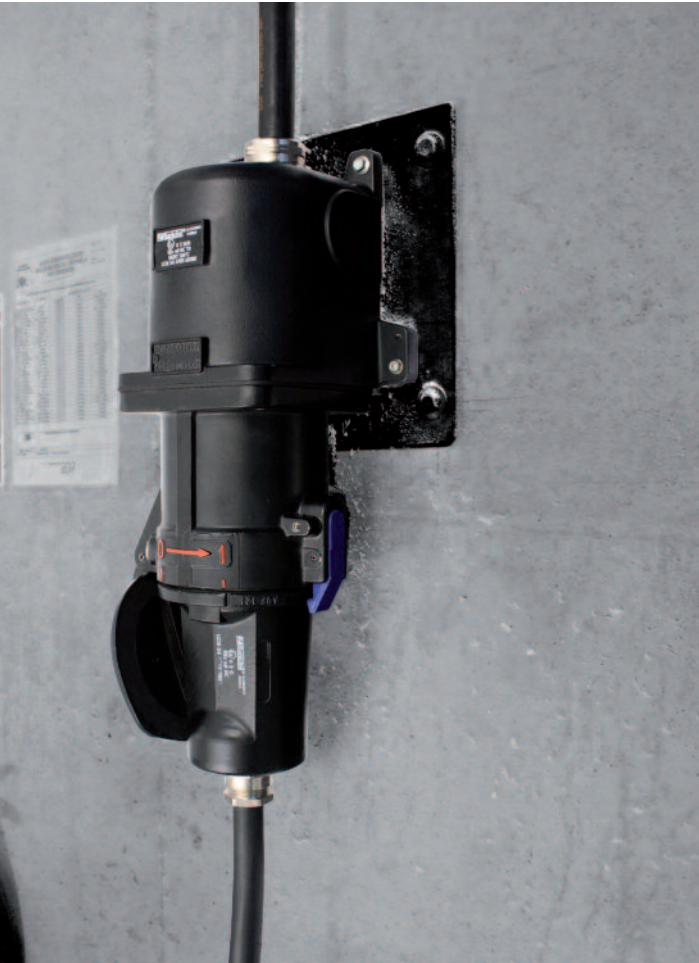


Reversed rotation of the plug: Sudden opening of the switch contacts. Return of the plug to its "off" parked position.

SPECIFICATION

IP65 plug and receptacle for explosive atmospheres (ATEX) with integral switching device, comply with BECMA international standard.

METAL Ex DECONTACTOR™



Locking with Allen key



Sugar silo



Operation for connection



Aviation maintenance hangar

Technical features

Plugs and receptacles with integral load-break switching capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

	DX1	DX3	DX6	DX9	DX2
Rated current (In)	20 A	32 A	63 A	125 A	200 A
Umax	750 V	750 V	750 V	750 V	750 V
Keying positions (1)	12	12	12	12	12
Ambient temperature	-25 °C ≤ Ta ≤ +60 °C (for DX1 & DX3)		-40 °C ≤ Ta ≤ +60 °C (for DX6, DX9 & DX2)		
Protection	“de”	“de”	“de”	“de”	“de”
ATEX zones	Zones 1 & 2 (gas) Zones 21 & 22 (dusts) - for all DX range				

(1) To discriminate between different power supplies and applications

Regulatory features

DX Decontactors comply with:

- The ATEX 94/9/CE directive,
- CEI 60079-0 (2006), CEI 60079-1 (2003), CEI 60079-7 (2006), CEI 61241-0 (2004) & CEI 61241-1 (2004) International standards,
- CEI 60309-1 & CEI 60309-4 European and International standards (plugs and Receptacles for industrial purposes),
- The European Low Voltage Directive 2006/95/CE,
- The European 'Machine Directive' regarding equipment isolation,
- The French NF C 15-100 standard,
- The French decree n°88-1056 dated 14th November 1988,
- The decrees relating to workers' protection in Belgium, Spain and Italy.

Also certified by KGS KOREA, GOST and VERITAS LCIE.



LCIE





Typical configuration:

Wall mounted receptacle



Plug



Wall box
26 2A B53



Receptacle
26 24 017



Plug
26 21 017

Plugs and receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	20 A
Maximum voltage	750 V
IP protection lid closed	IP65
IP protection connected plug	IP65
Resistance to shocks	IK10
Ambient temperature	-25 °C to +60 °C

Flexible wiring (min - max)	2,5 - 10 mm ²
Stranded wiring (min - max)	2,5 - 10 mm ²
Other wiring on request	
Keying positions	12
Protection mode	de
ATEX zones	1 & 2, 21 & 22

! Each receptacle outlet or receptacle connector must be associated with a box or a handle.

Locking position connected or disconnected by lockable shaft.



Temperature :
DX1 is T5 up to +60 °C and T6 up to +50°C.

Other voltages and polarities are available (See p. 5)

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
220 - 250 V	1P+N+E	26 24 015
380 - 440 V	3P+E	26 24 013
380 - 440 V	3P+N+E	26 24 017

Boxes

Ex cable gland included



Wall box metal 90°

Cable gland entry	Part no.
M20	26 2A B53 8 - 13 mm
M25	26 2A B53 25M 9 - 16 mm
M32	26 2A B53 32M 12 - 21 mm

Handle

Ex cable gland included



Straight metal

Cable gland entry	Part no.
M20	26 2A 963 8 - 13 mm
M25	26 2A 953 25M 9 - 16 mm
M32	26 2A 953 32M 12 - 21 mm

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
220 - 250 V	1P+N+E	26 28 015
380 - 440 V	3P+E	26 28 013
380 - 440 V	3P+N+E	26 28 017

Plug (male)

Ex cable gland included



Voltage 50 Hz	Polarity	Part no.
220 - 250 V	1P+N+E	26 21 015 8-13 mm
380 - 440 V	3P+E	26 21 013 8-13 mm
380 - 440 V	3P+N+E	26 21 017 8-13 mm

Boxes

Ex cable gland included



Wall box metal 90°

Cable gland entry	Part no.
M20	26 2A B53 8 - 13 mm
M25	26 2A B53 25M 9 - 16 mm
M32	26 2A B53 32M 12 - 21 mm

MARECHAL ELECTRIC MAROMME
 I I2 G/D Ex de IIC tD A21
 -25 °C ≤ Ta ≤ +60 °C T5 T84 °C
 -25 °C ≤ Ta ≤ +50 °C T6 T74 °C
 IECEX LCI 09.0014 / LCIE 05 ATEX 6127



Typical configuration:

Wall mounted receptacle



Plug



Wall box
26 3A B53



Receptacle
26 34 017



Plug
26 31 017

Plugs and receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	32 A
Maximum voltage	750 V
IP protection lid closed	IP65
IP protection connected plug	IP65
Resistance to shocks	IK10
Ambient temperature	-25 °C to +60 °C

Flexible wiring (min - max)	2,5 - 10 mm²
Stranded wiring (min - max)	2,5 - 10 mm²
Other wiring on request	
Keying positions	12
Protection mode	de
ATEX zones	1 & 2, 21 & 22

⚠ Each receptacle outlet or receptacle connector must be associated with a box or a handle.

Locking position connected or disconnected by lockable shaft.



Temperature :

DX3 is T5 up to +60 °C and T6 up to + 50°C.

Other voltages and polarities are available (See p. 5)

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
220 - 250 V	1P+N+E	26 34 015
380 - 440 V	3P+E	26 34 013
380 - 440 V	3P+N+E	26 34 017

Boxes

Ex cable gland included



Wall box metal 90°

Cable gland entry	Part no.
M20	26 3A B53 20M 8 - 13 mm
M25	26 3A B53 9 - 16 mm
M32	26 3A B53 32M 12 - 21 mm

Handle

Ex cable gland included



Straight metal

Cable gland entry	Part no.
M20	26 3A 953 20M 8 - 13 mm
M25	26 3A 963 9 - 16 mm
M32	26 3A 953 32M 12 - 21 mm

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
220 - 250 V	1P+N+E	26 38 015
380 - 440 V	3P+E	26 38 013
380 - 440 V	3P+N+E	26 38 017

Plug (male)

Ex cable gland included



Voltage 50 Hz	Polarity	Part no.
220 - 250 V	1P+N+E	26 31 015 9-16 mm
380 - 440 V	3P+E	26 31 013 9-16 mm
380 - 440 V	3P+N+E	26 31 017 9-16 mm

Boxes

Ex cable gland included



Wall box metal 90°

Cable gland entry	Part no.
M20	26 3A B53 20M 8 - 13 mm
M25	26 3A B53 9 - 16 mm
M32	26 3A B53 32M 12 - 21 mm

MARECHAL ELECTRIC MAROMME
 Ⓢ II2 G/D Ex de IIC tD A21
 -25 °C ≤ Ta ≤ +60 °C T5 T84 °C
 -25 °C ≤ Ta ≤ +50 °C T6 T74 °C
 IECEX LCI 09.0014 / LCIE 05 ATEX 6127

DX6

DECONTACTOR™

METAL CASING

up to **63 A** — **IP65**



Typical configuration:

Wall mounted receptacle



Plug



Wall box
26 6A B53



Receptacle
26 64 017



Plug
26 61 017

Plugs and receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	63 A
Maximum voltage	750 V
IP protection lid closed	IP65
IP protection connected plug	IP65
Resistance to shocks	IK10
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min - max)	16 - 50 mm ²
Stranded wiring (min - max)	16 - 50 mm ²
Other wiring on request	
Keying positions	12
Protection mode	de
ATEX zones	1 & 2, 21 & 22

 Each receptacle outlet or receptacle connector must be associated with a box or a handle.

Locking position connected or disconnected by lockable shaft.



Temperature :
DX6 is T6 up to +50 °C and T5 up to +60°C.

Other voltages and polarities are available (See p. 5)

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
220 - 250 V	1P+N+E	26 64 015
380 - 440 V	3P+E	26 64 013
380 - 440 V	3P+N+E	26 64 017

Boxes

Ex cable gland included



Wall box metal 90°

Cable gland entry	Part no.
M25	26 6A B53 25M 9 - 16 mm
M32	26 6A B53 12 - 21 mm
M40	26 6A B53 40M 16 - 27 mm

Handle

Ex cable gland included



Straight metal

Cable gland entry	Part no.
M25	26 6A 953 25M 9 - 16 mm
M32	26 6A 963 12 - 21 mm
M40	26 6A 953 40M 16 - 27 mm

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
220 - 250 V	1P+N+E	26 68 015
380 - 440 V	3P+E	26 68 013
380 - 440 V	3P+N+E	26 68 017

Plug (male)

Ex cable gland included



Voltage 50 Hz	Polarity	Part no.
220 - 250 V	1P+N+E	26 61 015 12-21 mm
380 - 440 V	3P+E	26 61 013 12-21 mm
380 - 440 V	3P+N+E	26 61 017 12-21 mm

Boxes

Ex cable gland included



Wall box metal 90°

Cable gland entry	Part no.
M25	26 6A B53 25M 9 - 16 mm
M32	26 6A B53 12 - 21 mm
M40	26 6A B53 40M 16 - 27 mm

MARECHAL ELECTRIC MAROMME
Ⓢ I12 G/D Ex de IIC tD A21
-40°C ≤ Ta ≤ +60°C T5 T90°C
-40°C ≤ Ta ≤ +50°C T6 T80°C
IECEX LCI 09.0015 / LCIE 04 ATEX 6038



Typical configuration:

Wall mounted receptacle



Plug



Wall box
26 9A B53



Receptacle
26 9A 017



Plug
26 91 017

Plugs and receptacles with load-break capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

Main features:

Rated current (with wiring according to standard)	125 A
Maximum voltage	750 V
IP protection lid closed	IP65
IP protection connected plug	IP65
Resistance to shocks	IK10
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min - max)	50 - 70 mm ²
Stranded wiring (min - max)	50 - 70 mm ²
Other wiring on request	
Keying positions	12
Protection mode	de
ATEX zones	1 & 2, 21 & 22

⚠ Each receptacle outlet or receptacle connector must be associated with a box or a handle.

Locking position connected or disconnected by lockable shaft.



Temperature :
DX9 is T6 up to +50 °C and T5 up to +60 °C.

Other voltages and polarities are available (See p. 5)

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	26 9A 013
380 - 440 V	3P+N+E	26 9A 017

Boxes

Ex cable gland included



Wall box metal 90°

Cable gland entry	Part no.
M32	26 9A B53 32M 12 - 21 mm
M40	26 9A B53 16 - 27 mm
M50	26 9A B53 50M 23 - 35 mm
M63	26 9A B53 63M 36 - 48 mm

Handle

Ex cable gland included



Straight metal

Cable gland entry	Part no.
M32	26 9A 953 32M 12 - 21 mm
M40	26 9A 963 16 - 27 mm
M50	26 9A 953 50M 23 - 35 mm
M63	26 9A 953 63M 36 - 48 mm

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	26 98 013
380 - 440 V	3P+N+E	26 98 017

Plug (male)

Ex cable gland included



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	26 91 013 16-27 mm
380 - 440 V	3P+N+E	26 91 017 16-27 mm
380 - 440 V	3P+E	26 91 013 50M 23-35 mm
380 - 440 V	3P+N+E	26 91 017 50M 23-35 mm
380 - 440 V	3P+E	26 91 013 63M 36-48 mm
380 - 440 V	3P+N+E	26 91 017 63M 36-48 mm

Boxes

Ex cable gland included



Wall box metal 90°

Cable gland entry	Part no.
M32	26 9A B53 32M 12 - 21 mm
M40	26 9A B53 16 - 27 mm
M50	26 9A B53 50M 23 - 35 mm
M63	26 9A B53 63M 36 - 48 mm

MARECHAL ELECTRIC MAROMME
 Ⓢ II2 G/D Ex de IIC tD A21
 -40 °C ≤ Ta ≤ +60 °C T5 T90 °C
 -40 °C ≤ Ta ≤ +50 °C T6 T80 °C
 IECEX LCI 09.0015 / LCIE 04 ATEX 6038



Typical configuration:

Wall mounted receptacle



Plug



Wall box
26 9A B53 Z0357



Receptacle
26 94 017 Z0357



Plug
26 91 017 Z0357

Plugs and receptacles with load-break capability
(integral switching device according to article 2.8 of EN 60309-1)

Main features:

Rated current (with wiring according to standard)	200 A
Maximum voltage	750 V
IP protection lid closed	IP65
IP protection connected plug	IP65
Resistance to shocks	IK10
Ambient temperature	-40 °C to +60 °C

Flexible wiring	70 mm ²
Stranded wiring	70 mm ²
Other wiring on request	
Keying positions	12
Protection mode	de
ATEX zones	1 & 2, 21 & 22

⚠ Each receptacle outlet or receptacle connector must be associated with a box or a handle.

Locking position connected or disconnected by lockable shaft.



Temperature :
DX2 is T3 up to +60 °C

Other voltages and polarities are available
(See p. 5)

Receptacle (female)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	26 94 013 Z0357
380 - 440 V	3P+N+E	26 94 017 Z0357

Boxes

Ex cable gland included



Wall box metal 90°

Cable gland entry	Part no.
M63	26 9A B53 Z0357 36 - 48 mm

Handle

Ex cable gland included



Straight metal

Cable gland entry	Part no.
M63	26 9A 963 Z0357 36 - 48 mm

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	26 98 013 Z0357
380 - 440 V	3P+N+E	26 98 017 Z0357

Plug (male)

Ex cable gland included



Voltage 50 Hz	Polarity	Part no.
380 - 440 V	3P+E	26 91 013 Z0357 36-48mm
380 - 440 V	3P+N+E	26 91 017 Z0357 36-48mm

Boxes

Ex cable gland included



Wall box metal 90°

Cable gland entry	Part no.
M63	26 9A B53 Z0357 36 - 48 mm

MARECHAL ELECTRIC MAROMME
Ⓢ I I2 G/D Ex de IIC tD A21
-40 °C ≤ Ta ≤ +60 °C T3 T91 °C
IECEX LCI 09.0015 / LCIE 04 ATEX 6038



Typical configuration:

Wall mounted receptacle



Plug



Receptacle
06 M0111



Plug
06 M1111

ATEX connector complying with International and European safety regulations, in particular to 94/9/CE ATEX directive.

Main features:

Number of contacts	11P + E
Nominal current	10 A
Maximum voltage	220 V
IP protection lid closed	IP65/IP66
IP protection connected plug	IP65/IP66
Resistance to shocks	IK09

Ambient temperature	-40 °C to +55 °C
Flexible wiring (min - max)	1,5 - 2,5 mm ²
Wiring	solder
Protection mode	e
ATEX Zones	1 & 2, 21 & 22

Wall mounted receptacle (female)



Ex cable gland	Part no.		
M25	06 M0111 25M	9 - 16 mm	
M32	06 M0111	12 - 21 mm	

• Connection or disconnection screw locking imprint BTR 2.5.

• Metal casing anti-corrosion treated.

Inclined receptacle (female)



Part no.
06 M7111

Temperature :
PXN12C is T5 up to +55 °C

Connector (female)



Ex cable gland	Part no.		
M25	06 M3111 25M	9 - 16 mm	
M32	06 M3111	12 - 21 mm	

Plug (male)



Ex cable gland	Part no.		
M25	06 M1111 25M	9 - 16 mm	
M32	06 M1111	12 - 21 mm	

Wall mounted appliance inlet (male)



Ex cable gland	Part no.		
M25	06 M6111 25M	9 - 16 mm	
M32	06 M6111	12 - 21 mm	

Inclined appliance inlet (male)



Part no.
06 M9111



Inlet cap IP67
06 NA 126

MARECHAL ELECTRIC MAROMME
 II2 G/D Ex e II tD A21
 -40 °C ≤ Ta ≤ +55 °C T5 T69 °C
 LCIE Ex 07.010 X / LCIE 07 ATEX 6070 X

DXN25C

MULTICONTACT CONNECTORS
METAL CASING

IP66
IP67



Padlocking shaft

Typical configuration:

Wall mounted receptacle



Plug



Receptacle
36 N0241



Plug
36 N1241

ATEX connector complying with International and European safety regulations, in particular to 94/9/CE ATEX directive.

Main features:

Number of contacts	24P + T
Nominal current	10 A
Maximum voltage	440 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK09

Ambient temperature	-40 °C to +60 °C
Flexible wiring (mini - max)	2,5 mm ²
Wiring	solder
Protection mode	e
ATEX Zones	1 & 2, 21 & 22

• Receptacle padlockable with plug in or out

• Metal casing anti-corrosion treated.

Wall mounted receptacle (female)



Ex cable gland	Part no.	
M40	36 N0241	16 - 27 mm
With padlocking shaft (padlock not included)		

Plug (male)



Ex cable gland	Part no.	
M40	36 N1241	16 - 27 mm

Inclined receptacle (female)



Part no.
36 N7241
With padlocking shaft (padlock not included)

Wall mounted appliance inlet (male)



Ex cable gland	Part no.	
M40	36 N6241	16 - 27 mm

Connector (female)



Ex cable gland	Part no.	
M40	36 N3241	16 - 27 mm
With padlocking shaft (padlock not included)		

Inclined appliance inlet (male)



Part no.
36 N9241

Température :

DXN25C is T6 up to +40 °Cet and T5 up to +60 °C (Ta).

MARECHAL ELECTRIC MAROMME

Ⓔ II2 G/D Ex e II tD A21

-40 °C ≤ Ta ≤ +60 °C T5 T71 °C

-40 °C ≤ Ta ≤ +40 °C T6 T51 °C

LCIE Ex 09.003 X / LCIE 09 ATEX 3050 X



Typical configuration:

Wall mounted receptacle



Plug



Receptacle
36 M0361



Plug
36 M1361

ATEX connector complying with International and European safety regulations, in particular to 94/9/CE ATEX directive.

Main features:

Number of contacts	36P + E
Nominal current	10 A
Maximum voltage	220 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks	IK09

Ambient temperature	-40 °C to +55 °C
Flexible wiring (mini - max)	2,5 mm ²
Wiring	solder
Protection mode	e
ATEX Zones	1 & 2, 21 & 22

- Receptacle padlockable with plug in or out
- Metal casing anti-corrosion treated.

Wall mounted receptacle (female)



Ex cable gland	Part no.	
M32	36 M0361 32M	12 - 21 mm
M40	36 M0361	16 - 27 mm

With padlocking shaft (padlock not included)

Inclined receptacle (female)



Part no.
36 M7361

With padlocking shaft (padlock not included)

Connector (female)



Ex cable gland	Part no.	
M32	36 M3361 32M	12 - 21 mm
M40	36 M3361	16 - 27 mm

With padlocking shaft (padlock not included)

Plug (male)



Ex cable gland	Part no.	
M32	36 M1361 32M	12 - 21 mm
M40	36 M1361	16 - 27 mm

Wall mounted appliance inlet (male)



Ex cable gland	Part no.	
M32	36 M6361 32M	12 - 21 mm
M40	36 M6361	16 - 27 mm

Inclined appliance inlet (male)



Part no.
36 M9361

Temperature :

DXN37C is T6 up to +40 °C and T5 up to +60 °C.

MARECHAL ELECTRIC MAROMME

Ⓔ II2 G/D Ex e II tD A21
 -40 °C ≤ Ta ≤ +55 °C T5 T76 °C
 -40 °C ≤ Ta ≤ +40 °C T6 T56 °C
 LCIE Ex 07.011 X / LCIE 07 ATEX 6071 X



Connector with locking mechanism and electromechanical break.

5 different mechanical keying of (L1, L2, L3, N, E)
Visual identification by standardized colours for each country

Part numbers (listed in table) are valid for Europe and Japan.

Other countries:

Replace prefix 46 with...

42- (USA) Example:
Receptacle L1 = 4247 001

43- (Australia) Example:
Plug L3 = 4341 003 32P

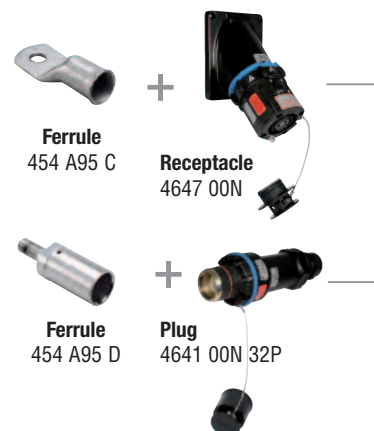
44- (UK and South-Africa)
Example:
Earth receptacle = 4447 00T

Typical configuration:

Inclined receptacle



Plug



Main features:

Nominal current	according to category and cable	Resistance to shocks	IK08
AC maximum voltage	1000 V	Ambient temperature	see opposite table
DC maximum voltage	1500 V	Stranded wiring (min - max)	see opposite table
Short-circuit current Icc	20 kA for 250 ms	Keying position	mechanical (5) and visual
IP protection lid closed	IP65/IP66	Protection mode	e
IP protection connected plug	IP65/IP66	ATEX Zones	1 & 2, 21 & 22
Number of operations			2000
Pre-wired pilot circuit			6 A / 250 V

Receptacle without ferrule



Plug without ferrule



Type	Part no.	Type	Part no.
		Cable dia.	18 to 25 mm 24 to 34 mm 34 to 42 mm 40 to 48 mm
L1	4647 001	L1	4641 001 32P 4641 001 40P 4641 001 50P 4641 001 63P
L2	4647 002	L2	4641 002 32P 4641 002 40P 4641 002 50P 4641 002 63P
L3	4647 003	L3	4641 003 32P 4641 003 40P 4641 003 50P 4641 003 63P
Neutral	4647 00N	Neutral	4641 00N 32P 4641 00N 40P 4641 00N 50P 4641 00N 63P
Earth	4647 00T	Earth	4641 00T 32P 4641 00T 40P 4641 00T 50P 4641 00T 63P
Positive	4647 00P	Positive	4641 00P 32P 4641 00P 40P 4641 00P 50P 4641 00P 63P
Negative	4647 00M	Negative	4641 00M 32P 4641 00M 40P 4641 00M 50P 4641 00M 63P

Ferrule

Selection of ferrule depends on the cable: the cross-section of the flexible cable mentioned in the above table is for information only. Please check dimensions as these may vary according to cables and manufacturers.



Wiring (mm ²)		Straight with hole	Straight threaded *	Diamètre intérieur (mm)
Flexible	Stranded	Part no.	Part no.	
50	70	454 A50 C	454 A50 D	11
70	95	454 A70 C	454 A70 D	13,1
95	120	454 A95 C	454 A95 D	14,5
120	150	454 A12 C	454 A12 D	16,2
150	185	454 A15 C	454 A15 D	18
185	240	454 A18 C	454 A18 D	20,6
240	300	454 A24 C	454 A24 D	23,1
300	400	454 A30 C	454 A30 D	26,1
400	500	454 A40 C	454 A40 D	29,2

* Wiring with crimping ferrules, according to NFC 20-130 (for VDE 0220 standard, please consult us)

Crimping: double hexagonal crimping is recommended.



MARINE

The highest possible safety

- Reliable mechanical and electrical interlocking,
- IP2X receptacle when cap removed,
- Automatic IP65/IP66 when plug is connected.

An simple-to-use connector

- Straight insertion of the plug into the receptacle,
- Different mechanical keying for L1, L2, L3, N and E,
- Visual identification by standard colours,

Performance

- With 240 mm² wiring, the SPeX accepts a permanent current up to 570 A / 1000 V a.c. with T5 ATEX classification at 40 °C ambient temperature.

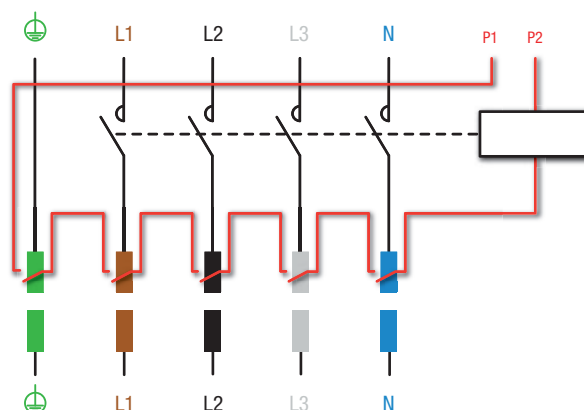
SPeX ATEX classification according to cable cross-section

	-20°C ≤ Ta ≤ +40°C	-20°C ≤ Ta ≤ +40°C	-20°C ≤ Ta ≤ +60°C
	G / D	G / D	G / D
	T5 / T56°C	T6 / T56°C	T5 / T76°C
70 mm ²	290 A	235 A	235 A
95 mm ²	415 A	335 A	335 A
120 mm ²	456 A	376 A	376 A
150 mm ²	493 A	415 A	415 A
185 mm ²	530 A	450 A	450 A
240 mm ²	570 A	497 A	497 A
300 mm ²	620 A	540 A	540 A
400 mm ²	680 A	600 A	600 A

Energy distribution system with separate connection of contacts

The pilot contact breaks the circuit in conformity with ATEX Directive (enhanced safety "e")

Pilot wiring is mandatory
to activate an early break

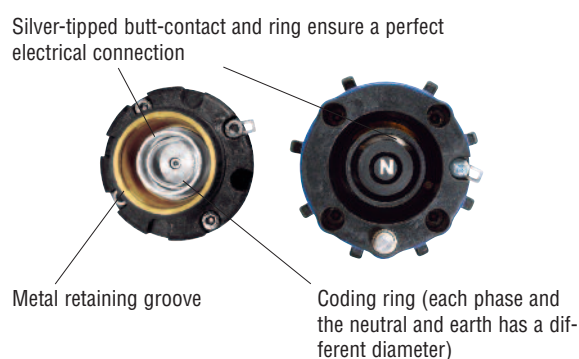
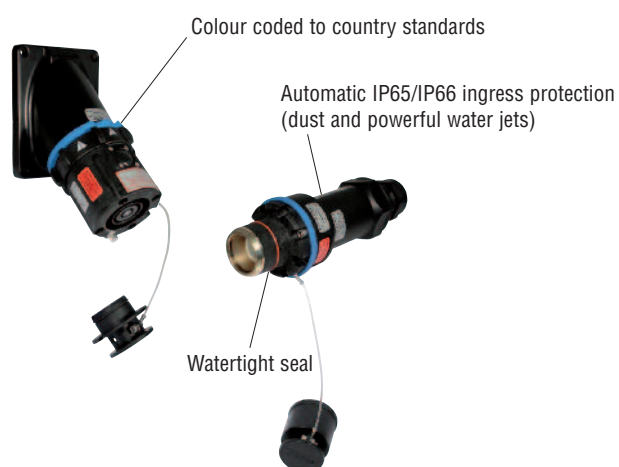


Continental color coding

Type

L1 - Brown	
L2 - Black	
L3 - Grey	
Neutral - Blue	
Earth - Green	
Positive - Red	
Negative - Black	

The breaking system is not supplied





Equipped with 20 to 63 A Decontactors and/or 10 A multicontacts connectors, these reinforced polyester resin fiberglass and graphite loaded junction boxes are designed for making electrical connections in hazardous areas, offering from 12 to 37 contacts. They provide increased safety and intrinsic safety, allowing them to be used in zones 1 & 2 (gas), 21 & 22 (dust). This comprehensive range is also ideal for wet environments – such as food and beverage or chemical industries – thanks to their corrosion resistance.

It is possible to mount both receptacles and multicontact connectors on the same box, with some models able to accommodate up to 24 receptacles or connectors.

ASSOCIATED MARECHAL PRODUCTS

Decontactors:	DXN1, DXN3 and DXN6
Multicontact Connectors	PXN12C, DXN25C and DXN37C

ELECTRICAL FEATURES

Maximum voltage*:	750 V
Maximum nominal current*:	63 A
Stranded wiring (min - max)*:	1.5 - 25 mm ²
Flexible wiring (min - max)*:	1.5 - 16 mm ²
* depending on the receptacle	
Junction:	Terminal blocks. Feed through and loop-in loop-out connection
Cable entries:	M12 to M63 depending on the size of the box Polyamide cable gland for unarmoured cable Nickel plated brass cable gland for unarmoured cable and armoured cable (with plate or washer bonding inside the box)

THERMAL SPECIFICATION

Temperature range and ratings:	From -40 °C to +60 °C
	From -40 °C ≤ Ta ≤ +40 °C T6 to T4*
	From -40 °C ≤ Ta ≤ +55 °C T5 to T4*
	From -40 °C ≤ Ta ≤ +60 °C T4
	* depending on the internal components and receptacle mix (consult us)

MECHANICAL FEATURES

Degree of protection:	IP66
Resistance to shock:	7 joules at -40 °C according to IEC and EN 60079-0 - IK09 according to IEC and EN 62 262.
Material:	Casing made of polyester resin reinforced with fibreglass and graphite loaded for boxes. Casing made of High Performance Poly for DXN1, DXN3 and DXN6 Decontactors Casing made of Metal for PXN12C, DXN25C and DXN37C multicontact connectors Stainless steel screw

ATEX MARKINGS

ATEX zones:	Gas and Dust : zones 1 & 2, 21 & 22
ATEX markings:	Ⓔ II 2 G D Ex e II T4 to T6 Ex tD A21 increased safety
	Ⓔ 2 G D Ex ia IIC T6 tD A21 or Ⓔ II 2 G D Ex ib IIC T6 tD A21 intrinsically safety
	Ⓔ 2 G D Ex e ia IIC T6 tD A21 or Ⓔ II 2 G D Ex e ib IIC T6 tD A21 increased safety and intrinsic safety
Compliance with Standards:	IEC and EN 60079-0, 60079-7, 60079-11, 61241-0 et 61241-1
Certificates:	Certificates IECEX N° IECEX LCI 11.0042 and ATEX N° LCIE 11 ATEX 3047

MAXIMUM NUMBER OF RECEPTACLES PER BOX (T6 at +40 °C ambient temperature)

Box	Type :	DXN1			DXN3			DXN6			PXN12C	DXN25C	DXN37C
		1P+N+E	3P+E	3P+N+E	1P+N+T	3P+E	3P+N+E	1P+N+E	3P+E	3P+N+E			
MXBS1		3	3	3	1	1	1	-	-	-	3	1	1
MXBS2		4	4	3	1	1	1	1*	1*	1*	3	1	1
MXBS3		7	4	3	2	2	2	1*	1*	1*	7	2	2
MXBS4		7	6	4	2	2	2	1*	1*	1*	4	1	1
MXBS5		13	9	6	4	4	4	1*	1*	1*	5	2	1
MXBS6		11	7	5	11	7	5	1	1	1	5	2	1
MXBS7		14	9	7	13	9	6	1	1	1	6	3	2
MXBS8		12	8	6	12	8	6	2	2	2	5	2	1
MXBS9		19	12	9	18	12	9	2	2	2	8	4	2
MXBS10		24	16	12	24	16	12	2	2	2	11	5	3

* T5 at 40 °C

Note : Special configurations, wiring terminal blocks and a mixture of receptacle outlets are available. Please contact us.

Example of possible configuration on the MXBS7 box:



- 1 multicontact female receptacle DXN37C
- 1 multicontact female receptacle PXN12C
- 1 Decontactor female receptacle DXN3 - 3P+N+E
- 1 Decontactor female receptacle DXN1 - 3P+N+E

Note : In addition to mixing both power and multipin connectors, it is possible to fit both male inlets and female receptacles on the same box.

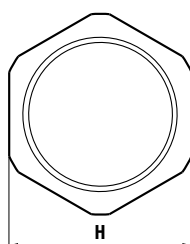
MAXIMUM NUMBER OF POLYESTER CABLE GLANDS PER SIDE

Box	Side	M12 (H = 15 mm)	M16 (H = 22 mm)	M20 (H = 24 mm)	M25 (H = 33 mm)	M32 (H = 42 mm)	M40 (H = 53 mm)	M50 (H = 60 mm)	M63 (H = 70 mm)
MXBJ1	A/B	15	6	6	2	2	-	-	-
	C/D	5	2	1	1	1	-	-	-
MXBJ2	A/B	12	5	4	2	1	1	-	-
	C/D	12	5	4	2	1	1	-	-
MXBJ3	A/B	32	14	12	6	3	2	-	-
	C/D	12	5	4	2	1	1	-	-
MXBJ4	A/B	26	14	9	6	3	2	2	-
	C/D	18	8	6	3	2	1	1	-
MXBJ5	A/B	72	38	26	16	7	5	4	-
	C/D	18	8	6	3	2	1	1	-
MXBJ6	A/B	69	32	24	12	8	4	3	3
	C/D	51	24	18	10	7	3	3	2
MXBJ7	A/B	117	56	42	21	14	7	5	5
	C/D	50	22	18	10	6	3	2	2
MXBJ8	A/B	108	52	36	18	12	6	4	4
	C/D	50	24	18	10	7	3	3	2
MXBJ9	A/B	117	56	42	21	14	7	5	5
	C/D	95	46	36	18	13	6	5	4
MXBJ10	A/B	215	102	81	43	26	18	11	10
	C/D	256	158	123	65	40	27	18	14

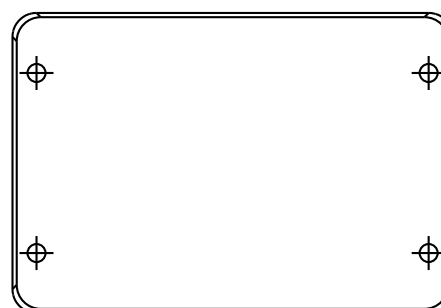
A

Accessories on request:

- Inclined sleeve
- Earth stud
- Earth bar
- Hinges
- Mounting brackets



C



B



These junction boxes are constructed from reinforced polyester resin with fibreglass and graphite, and are designed for making electrical connections in hazardous areas. They provide increased safety and intrinsic safety, allowing them to be used in zones 1 & 2 (gas), 21 & 22 (dust). This comprehensive range is also ideal for wet environments – such as food and beverage or chemical industries – thanks to their corrosion resistance.

ELECTRICAL FEATURES

Maximum voltage*:	750 V
Maximum nominal current*:	350 A
Flexible or stranded wiring (min - max)*:	0.2 - 240 mm ²
* depending on the type of terminal connection	
Cable entries:	M12 to M63
	Polyamide cable gland for unarmoured cable Nickel plated brass cable gland for unarmoured cable and armoured cable (with plate or washer bonding inside the box)

THERMAL SPECIFICATION

Temperature range and ratings:	From -55 °C to +60 °C From -55 °C to +40 °C (T6 = 85 °C surface temperature) From -55 °C to +55 °C (T5 = 100 °C surface temperature) From -55 °C to +60 °C (T4 = 105 °C surface temperature)
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MECHANICAL FEATURES

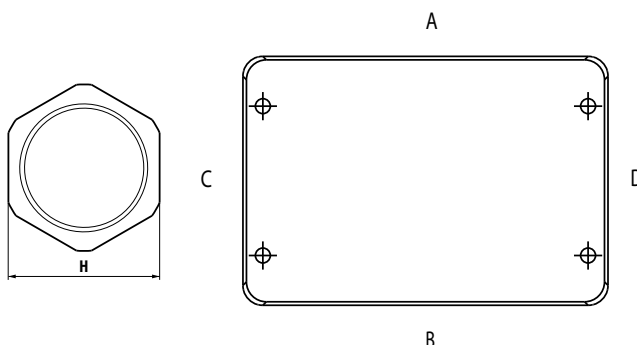
Degree of protection:	IP66
Resistance to shock:	7 joules at -55 °C according to IEC and EN 60079-0 - IK09 according to IEC and EN 62 262.
Material:	Casing made of polyester resin reinforced with fibreglass and graphite loaded Stainless steel screws

ATEX MARKINGS

ATEX zones:	Gas and Dust : zones 1 & 2, 21 & 22
ATEX markings:	Ex II 2 G D Ex e II T6 tD A21 increased safety Ex II 2 G D Ex ia IIC T6 tD A21 or Ex II 2 G D Ex ib IIC T6 tD A21 intrinsic safety Ex II 2 G D Ex e ia IIC T6 tD A21 or Ex II 2 G D Ex e ib IIC T6 tD A21 increased safety and intrinsic safety
Compliance with Standards:	IEC and EN 60079-0, 60079-7, 60079-11, 61241-0 et 61241-1
Certificates:	Certificates IECEX N° IECEX LCI 11.0026 and ATEX N° LCIE 11 ATEX 3028

Accessories on request:

- Earth stud
- Earth bar
- Shield bar
- Junction bar
- Hinges
- Mounting brackets



CONDUCTORS CROSS-SECTION : NUMBER OF TERMINALS / IN MAX (A)

Box	1.5 mm ²		2.5 mm ²		4 mm ²		6 mm ²		10 mm ²	
	Number	In Max	Number	In Max	Number	In Max	Number	In Max	Number	In Max
MXBJ1	14	13 A	14	15 A	11	18 A	-	-	-	-
	10	15 A	7	20 A	5	25 A	-	-	-	-
MXBJ2	19	12 A	15	15 A	15	17 A	13	22 A	10	31 A
	11	15 A	9	20 A	7	25 A	6	32 A	4	45 A
MXBJ3	42	8 A	34	10 A	34	11 A	29	15 A	22	21 A
	11	15 A	9	20 A	7	25 A	6	32 A	4	45 A
MXBJ4	28	11 A	23	14 A	23	15 A	19	20 A	14	29 A
	15	15 A	11	20 A	9	25 A	7	32 A	6	45 A
MXBJ5	76	7 A	61	9 A	61	11 A	51	14 A	39	21 A
	17	15 A	14	20 A	12	25 A	11	32 A	8	45 A
MXBJ6	102	6 A	82	8 A	82	9 A	70	12 A	52	17 A
	16	15 A	13	20 A	12	25 A	12	32 A	8	45 A
MXBJ7	170	5 A	138	7 A	138	8 A	116	11 A	86	16 A
	20	15 A	17	20 A	15	25 A	13	32 A	11	45 A
MXBJ8	264	4 A	214	5 A	214	6 A	180	8 A	136	12 A
	17	15 A	15	20 A	14	25 A	12	32 A	10	45 A
MXBJ9	255	5 A	207	6 A	207	8 A	174	10 A	129	15 A
	27	15 A	24	20 A	11	25 A	19	32 A	15	45 A
MXBJ10	402	4 A	324	6 A	324	7 A	273	9 A	136	17 A
	35	15 A	30	20 A	28	25 A	25	32 A	20	45 A

Box	16 mm ²		25 mm ²		35 mm ²		50 mm ²		70 mm ²	
	Number	In Max	Number	In Max	Number	In Max	Number	In Max	Number	In Max
MXBJ1	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
MXBJ2	7	43 A	-	-	-	-	-	-	-	-
	3	65 A	-	-	-	-	-	-	-	-
MXBJ3	17	28 A	-	-	-	-	-	-	-	-
	3	65 A	-	-	-	-	-	-	-	-
MXBJ4	11	39 A	7	32 A	7	71 A	-	-	-	-
	4	65 A	3	85 A	2	105 A	-	-	-	-
MXBJ5	31	28 A	21	43 A	21	47 A	6	105 A	5	123 A
	5	65 A	5	85 A	2	105 A	3	130 A	2	170 A
MXBJ6	42	23 A	14	51 A	12	60 A	10	89 A	-	-
	5	65 A	5	85 A	3	105 A	4	130 A	-	-
MXBJ7	35	30 A	23	46 A	23	50 A	18	80 A	9	105 A
	7	65 A	7	85 A	5	105 A	6	130 A	3	170 A
MXBJ8	54	23 A	36	36 A	36	39 A	28	58 A	9	102 A
	7	65 A	6	85 A	5	105 A	5	130 A	3	170 A
MXBJ9	70	25 A	23	55 A	22	61 A	18	93 A	16	93 A
	10	65 A	9	85 A	7	105 A	9	130 A	4	170 A
MXBJ10	110	23 A	27	59 A	35	57 A	28	80 A	25	88 A
	14	65 A	13	85 A	10	105 A	9	130 A	6	170 A

Box	95 mm ²		120 mm ²		150 mm ²		185 mm ²		240 mm ²	
	Number	In Max	Number	In Max	Number	In Max	Number	In Max	Number	In Max
MXBJ8	6	140 A	-	-	-	-	-	-	-	-
	2	205 A	-	-	-	-	-	-	-	-
MXBJ9	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
MXBJ10	22	105 A	18	149 A	18	150 A	15	197 A	10	254 A
	5	205 A	5	235 A	4	235 A	4	305 A	5	350 A

MAXIMUM NUMBER OF POLYESTER CABLE GLANDS PER SIDE

Box	Side	M12 (H = 15 mm)	M16 (H = 22 mm)	M20 (H = 24 mm)	M25 (H = 33 mm)	M32 (H = 42 mm)	M40 (H = 53 mm)	M50 (H = 60 mm)	M63 (H = 70 mm)
MXBJ1	A/B	15	6	6	2	2	-	-	-
	C/D	5	2	1	1	1	-	-	-
MXBJ2	A/B	12	5	4	2	1	1	-	-
	C/D	12	5	4	2	1	1	-	-
MXBJ3	A/B	32	14	12	6	3	2	-	-
	C/D	12	5	4	2	1	1	-	-
MXBJ4	A/B	26	14	9	6	3	2	2	-
	C/D	18	8	6	3	2	1	1	-
MXBJ5	A/B	72	38	26	16	7	5	4	-
	C/D	18	8	6	3	2	1	1	-
MXBJ6	A/B	69	32	24	12	8	4	3	3
	C/D	51	24	18	10	7	3	3	2
MXBJ7	A/B	117	56	42	21	14	7	5	5
	C/D	50	22	18	10	6	3	2	2
MXBJ8	A/B	108	52	36	18	12	6	4	4
	C/D	50	24	18	10	7	3	3	2
MXBJ9	A/B	117	56	42	21	14	7	5	5
	C/D	95	46	36	18	13	6	5	4
MXBJ10	A/B	215	102	81	43	26	18	11	10
	C/D	256	158	123	65	40	27	18	14

Main features:

Section	from 2 x 1,5 to 2 x 120 mm ²
Protection mode	e
ATEX zones	1 & 2, 21 & 22

- Spring-assisted tightening (even after copper yield)
- Vibration-resistant, thermal cycling-resistant and anti-shearing terminals
- Compliant with the NFC 20-110 standard
- Compliant with the 'e' safety standards (thanks to the insulated base)

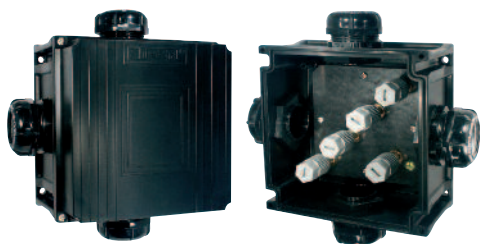
The CRIC terminals are characterised by:

- special screw threading (no artillery), preventing the opening of the terminal body,
- perfectly tight: no tool required,
- a spring placed inside the terminal head compensates for strand settlement and copper yield.



Terminal		insulated with fixing part	insulated+screw with rear part	earth with treaded hole	earth + screw with rear part	earth + screw with treaded hole	insulated without fixing part	Marking label / protecting cap
Wiring								
T6	2 x 1,5 mm ² to 2 x 6 mm ²	6TA 6	6TB 6	6TD 6	6TE 6	6TF 6	6TV 6	6EP 6
T16	2 x 4 mm ² to 2 x 16 mm ²	6TA 16	6TB 16	6TD 16	6TE 16	6TF 16	6TV 16	6EP 16
T35	2 x 6 mm ² to 2 x 35 mm ²	6TA 35	6TB 35	6TD 35	6TE 35	6TF 35	6TV 35	6EP 35
B70	2 x 25 mm ² to 2 x 70 mm ²	6BA 70	6BB 70*	6BD 70	6BE 70	6BF 70	-	6C 70
B120	2 x 50 mm ² to 2 x 120 mm ²	6BA 120	6BB 120*	6BD 120	6BE 120	6BF 120	-	6C 120

* rod non insulated



Main features:

Maximum voltage	750 V
Ambient temperature	-40 °C to +60 °C
Protection mode	e
ATEX zones	1 & 2, 21 & 22
IP protection	IP66/IP67
Dimensions (H x W x D)	173 x 173 x 118 mm

Boxes fitted with terminals only

MARECHAL ELECTRIC MAROMME

Ⓔ II2 G/D Ex e II tD A21
-40°C ≤ Ta ≤ +60°C T6 T85°C
LCIE 05 ATEX 6128

This range is equipped with CRIC increased safety 'e' terminal blocks and cable gland and complies with the 94/9/CE directive (one M40 cable gland maximum per side). All external fastenings are in stainless steel.

This box can be equipped with:

- Two DXN1 with 30° inclined sleeve, or
- One DXN1 and one DXN3 with 30° inclined sleeves, or
- One DXN6 with 70° inclined sleeve.

Code compliance

- The European ATEX 94/9/CE directive
- EN 60079-0, EN 60079-7, EN 61241-0, EN 61241-1

Wiring

Three kinds of increased safety 'e' terminal blocks are available:

- 20 A : 3 x 4 mm² max. per terminal block
- 40 A : 3 x 10 mm² max. per terminal block
- 70 A : 3 x 25 mm² max. per terminal block



B2X equipped with two DXN1 (shown) or one DXN1 and one DXN3

Boxes fitted with terminals + DXN

MARECHAL ELECTRIC MAROMME

Ⓔ II2 G/D Ex e II tD A21
-40°C ≤ Ta ≤ +60°C T4 T130°C
LCIE 05 ATEX 6128



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