CONTARELAYSCIRO



Relay

_	•
Over	view

Overview	2
The Company	3
Relay technology - introduction	4
Compact plug relays PRC	6
Relay terminals with 1 CO relay Screw or tension-spring connections	8
Relay terminals with 2 CO relays Screw or tension-spring connections	12
Plug relay system PRS Screw connections	16
Relay 1-CO PRS 1 XT Screw connection	18
Relay 2-CO PRS 2 XT Screw connection	20
Relay 1-CO PRS 1 Screw connection	22
Relay 2-CO PRS 2 Screw connection	24
Relay 2-CO PRS 2 G Screw connection	26
Relay 4-CO PRS 4 Screw connection	28
Relay 4-CO PRS 4 G Screw connection	30
Relay 4-CO PRS 4 eco Screw or tension-spring connection	32
Plug relay system PRS Tension-spring connection	34
Relay 1-CO PRS 1 XT Tension-spring connection	36
Relay 2-CO PRS 2 XT Tension-spring connection	37
Relay 1-CO PRS 1 Z Tension-spring connection	38
Relay 2-CO PRS 2 Z Tension-spring connection	40
Relay 4-CO PRS 4 Z Tension-spring connection	42
Auto-Off-On-Relay RM/HA/24 VUC	44
Opto-coupler Solid-State	46
Plug-Solid-State-Compact PSC	48
Solid-state terminals Screw or tension-spring connections	50
Solid-state relay modules CMS-SSR	52
Functional relays	54
Multi-function timing relay terminal MFR-PRC Screw connection	58
Multi-function timing relay terminal MFR-PRC Screw connection	61
Multi-function timing relay MFR 1 MFR 4 MFR 5 Screw connection	62
Clock-pulse generator dual-time relays MFR 6 Screw connection	64
Stairway timed light switch TSR 1 TSR 2 Screw connection	66
Under voltage monitoring relays USR 1 USR 2 Screw connection	68
Star-delta switching relays SDSR 1 SDSR 2 Screw connection	70
Voltage monitoring relays VMR1 VMR 2 Screw connection	72
Voltage-monitoring relay VMR 3 Screw connection	74

The Company

Founded and kept in the family since 1977: **CONTA-CLIP** is an owner-operated company that is a mid-sized global player. Users of electrical and electronic connection products have come to trust us for our reliable components. They also trust in our wide-reaching competence within the market and industry which has evolved over many years. In the years since our company was founded, we have evolved from a manufacturer to an innovator.

Our employees are connectivity specialists coming from a wide variety of backgrounds. They understand the specific problems, requirements and challenges of our customers. This ensures communication among equals. We then invest our gains directly into maintaining a modern and efficient production process. This allows us to maintain the most modern machinery at our facilities. We develop and produce the tooling ourselves. We neither make nor accept any compromise in the quality of materials used in our products.

Our top-class products are supported by this interplay between top-class men and machinery. We have also designed our range of services to align with customer needs. We develop electronics, assemble terminal rails, take care of component labelling, and deliver completely populated housings when needed – totally customized and expedited.

Our passion and concern for our customers' challenges does not end after we've delivered our solution. **CONTA-CLIP** customer representatives are always ready to offer their support to the customer, because service and support are our top priorities.

You can find out all about product innovations, trade fair appointments, press releases, and more at our official **CONTA-CLIP** web site. If you want to make sure you do not miss any news, subscribe with no obligation to our **CONTA-CLIP** newsletter by e-mail.

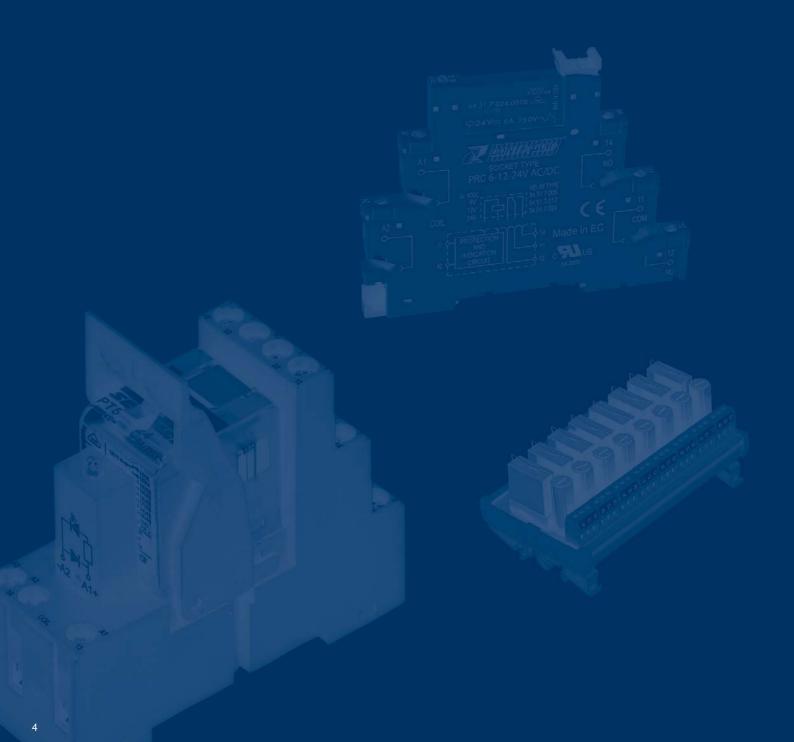
www.conta-clip.com



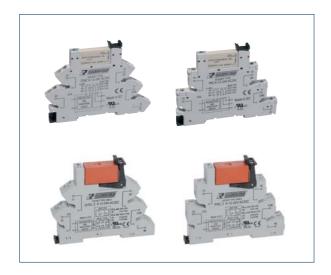
Relay Systems

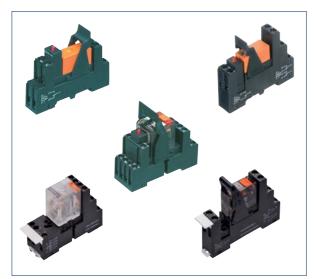
Relay technology continues to play a large role in the reliability of industrial control and automation solutions. Because of their thin design, relay couplers find use in rail-oriented control designs. Thanks to their features, **CONTA-CLIP** relay couplers are well-suited for use in secure electrical isolation of circuits or for the multiplication of contacts.

Whether it is in manufacturing, electrical machine and plant instrumentation, control engineering, building automation, or process engineering – everywhere it is important to guarantee that the signal exchange between the peripheral devices and the upper-level central control and instrumentation systems remains potential-free and operationally safe.



Relay Systems







Compact plug relays PRC

PRC relay couplers distinguish themselves by their compact shape in the terminal block design. With a width of just 6.2 mm for a 1 CO relay and 14 mm for a relay with 2 COs, there are many application possibilities. The basis relay offers 28 versions, including screw and tension-spring connections, and available coil voltages from 6 to 24 VDC and from 12 to 240 VAC/DC. With the AQI cross-connection system, mutual potentials can be carried out over the coil or contact sides. For excellent equipment identification, the socket base has a labelling surface for the standard PMC marking system.

CONTA-CLIP also offers a customer-specific labelling service, in addition to the standard marking.

Plug relay system PRS

PRS relay couplers are available in one-, two- and four-change-over design. The relay plug-in modules are designed for a measured voltage from 300 V. They can be combined with relays (in the coil-voltage range of 12 to 220 VDC and 12 to 230 VAC) and the appropriate insert-modules or status displays. In order to guarantee that the relay is mechanically snug in the frame, a relay holding-clamp can be mounted. The switchable continuous current is 12 amps for the one-and two-CO versions, and 6 amps for the four-CO versions. The **PRS**...G types have electrical contacts which are designed so that the coil side and the contact side are arranged separately from another. The relay frame, relay insert module and holding-clamp can be modularly assembled and combined.

RM/HA/24 VUC | AUTO-ON-OFF-relay

This compact relay component acts as the interface between the encoder, input, control signals and the control or factory-level. It also enables simple switching from automatic mode to OFF or manual mode. Because of the coil construction for the 24 V AC/DC input, the component has a wide variety of uses. A potential-free check-back contact for control allows for convenient monitoring of the operating status. The status is also shown with an integrated LED. The integrated relay is designed with a switching capacity of up to 2500 VA at a rated voltage of 250 V.

Relay terminals with 1-CO relay

1. Overview

Labelling | Marking
The socket bases have a labelling surface which is optimally suited for our PMC
Pocket-Maxicard (PMC BSTR 6/30) standard marking systems. In addition to our large variety of standard labels, CONTA-CLIP can also provide "just-in-time" individual labelling for you.

Using the mount/dismount lever
The mounting and dismounting mechanism forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever!





Pluggable relays
Pluggable relays are also available with
AgSNO and gold contacts, to fit with the
many functions of your individual requirements!



Pluggable external cross-connections

The AQI/PRC pluggable cross-connection system enables a time-saving distribution of potentials. The AQI/PRC is constructed so that it is protected against accidental touch. It is available as a 20-pole unit, in either yellow, blue or black. The cross-connector can be shortened to fewer poles in order to fit the required interface.

Insulation plating can be used to insulate the ends.



Mounts on standard TS 35 rail CONTA-CLIP relay terminal can be flexibly mounted on standard TS 35 mounting rails according to EN 50035 and EN 50022.

f Connection types

All of our relay terminals are optionally available with screw or tension-spring connection systems.





2. Approvals (Details upon request.)





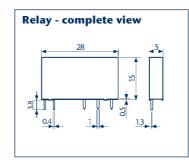


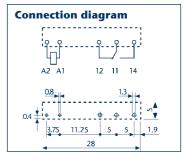


3. Features

I. Relay

- 5 mm width, extremely narrow monitoring relay
- Sensitive DC coil, 170 mW
- Secure isolation between the coil and the contacts, according to VDE 0160/EN 50178
- 6 mm clearance distance, 8 mm creepage distance
- 6 kV (1.2/50 µs)
- Protection class II, according to VDE 0631/EN 60730

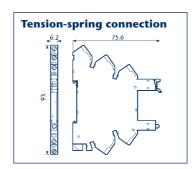


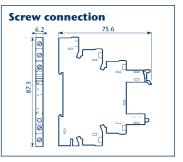


Relay terminals with 1-CO relay

II. Socket base

- Mount on TS 35
- Very flexible and modular construction of individual relay bases
- User-friendly, because the relays can be easily replaced
- High-quality connecting terminals (tension-spring or screw connection system)
- Integrated EMC coil circuitry, and LED
- High-quality innovative mount/dismount lever
- All versions are optionally available with screw or tension-spring connection system





4. Specifications

Electro-mechanical relay

Insulation properties

insulation properties		
Insulation coordination, according to EN 61810-1, VDE 0435 T 201.	Rated insulation voltage of V	250
	Rated surge voltage kV	4
	Pollution degree	3
	Overvoltage category	III

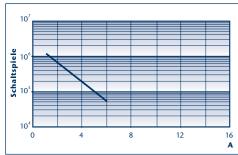
EMC - interference immunity of the control circuit (coil)

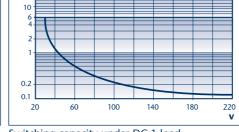
BURST (5 50) ns, 5 kHz, on A 1-A 2	EN 61000-4-4	class 4 (4 kV)
SURGE (1,2/50) us on A 1-A 2 (differential mode)	EN 61000-4-5	class 3 (2 kV)

Additional data

Bounce time by closure of the NO/N	IC ms	1/6	
Resistance to vibration (10 55 Hz,	max ± 1 mm):		
	NO/NC g/g	10/5 flux density	
Ambient heat dissipation	without contact current W	0.2 (12 V) - 0.9 (240 V)	
·	by continuous current W	0.5 (12 V) - 1.5 (240 V)	

5. Contact data





- Under resistive load (DC 1) and with an intersection of current and voltage that lies under the curve: this is an indication of an electrical life span greater to or equal to 100,000 switching cycles.
- Under an inductive load (DC 13), a free-wheel diode must be switched parallel to the load.
 Note: the return time is increased.

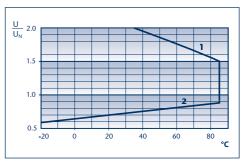
Service life of contact under AC 1 load Sv

Switching capacity under DC 1 load

6. Coil data

DC version

Oper Rai	ating nge	Resistance	Rated current
U _{min}	U_{max}	R	l l
V	V	Ω	mA
3.5	7.5	130	38.4
8.4	18	840	14.2
16.8	36	3.350	7.1
33.6	72	12.300	3.9
42	90	19.700	3
	Rai U _{min} V 3.5 8.4 16.8 33.6	V V 3.5 7.5 8.4 18 16.8 36 33.6 72	Range Umin Umax R V V Ω 3.5 7.5 130 8.4 18 840 16.8 36 3.350 33.6 72 12.300



Reliable range of operating voltage

- 1 Max. permitted coil voltage
- **2** Response voltage, when coil temperature equal to ambient temperature

Screw-connection relay terminals

- Consisting of:
- basic terminal and pluggable relay.
- Mount on TS 35









15569.2/10

10 x 10⁶/10 x 10⁶

36 g 2 V AC/DC

60 x 10³

5/6 ms

4 kV/3

1.000 V AC

-40 to +70°C

-40 to +70°C

6 kV

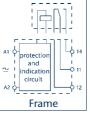
RT II

10 mm



Connection diagram

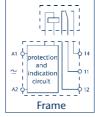
- · Internal EMC coil circuitry and LED display
- LW versions: an internal AC residual-current suppression and LED display



PRCU 1/6 V DC

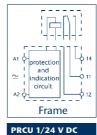
15513.2/10

87.3 x 6.2 x 79.9 mm



PRCU 1/12 V DC

15514.2/10



15515.2/10

36 g 24 V DO

-/10 x 10⁶

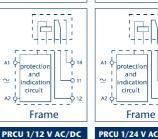
60 x 10³

5/6 ms

4 kV/3

6 kV

87.3 x 6.2 x 79.9 mm



Туре	
Cat. no./Qty.	Type/Colour grey (RAL 7032)
Size (L x W x H) with TS	Type/Colour grey (RAL 7032) 5 35 x 7.5
Weight	
Rated operating voltage	
General information	
Mech. life span AC/DC	switching cycles
Electrical life span AC 1	switching cycles
Response time/release t	time
Insulation coordination	, EN 61810-5
Dielectric strength coil/co	ontacts (1.2/50 µs)
Dielectric strength of o	
Ambient temperature	
Relay protection type	
Ratings for socket b	ase
Ambient temperature	
Insulation stripping len	gth
Max. connection cross-section,	solid flexible
	-
Ratings for plug-relay	S combined with socket base

86 g
S V DC
-/10 x 10 ⁶
50 x 10 ³
5/6 ms
ł kV/3
5 kV
,000 V AC
40 to +70°C
RT II
40 to +70°C
0 mm

1x2.5 | 1x2.5 mm²

1x14 | 1x14 AWG



1 CO contact

250/400 VAC*

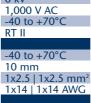
6/10 A

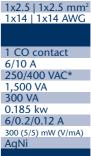
1,500 VA

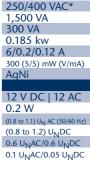
300 VA

0.185 kw

6/0.2/0.12 A







and indication circuit
Frame
PRCU 1/24 V AC/DC 15508.2/10
87.3 x 6.2 x 79.9 mm 36 g
24 V AC/DC
10 x 10 ⁶ /10 x 10 ⁶
60 x 10 ³ 5/6 ms
4 kV/3 6 kV
1,000 V AC -40 to +70°C

-40 to	+70°C
10 mr	n
1x2.5	1x2.5 mm
1x14	1x14 AWG

RT II

Ratings for plug-relays combined with socket base Contacts
Number of contacts
Max. continuous current Max. inrush current
Rated voltage Max. switching voltage
Max. power rating AC 1
Max. power rating AC 15 (230 V AC)
1-phase motor load, AC 3 operation (230 V AC)
Max. switching current DC 1:30/110/220 V
Min. switching load
Standard contact material
Coil
Rated voltage (U _N)
Power rating AC/DC
Operating range
Holding current
Drop-out voltage

1 CO contact
6/10 A
250/400 VAC*
1,500 VA
300 VA
0.185 kw
6/0.2/0.12 A
300 (5/5) mW (V/mA)
300 (5/5) mW (V/mA) AgNi
AgNi
AgNi 5 V DC – AC
AgNi 5 V DC – AC
AgNi 5 V DC – AC 0.2 W

0.05

(5/5) mW (V/mA)	300 (5/5) mW (V/mA)
۸i	AqNi
DC – AC W	12 V DC – AC
W	0.2 W
	-
to 1.2) U _N DC	(0.8 to 1.2) U _N DC
J _N DC	0.6 U _N DC
U _N DC	0.05 U _N DC
• •	**

1 CO contact
6/10 A
250/400 VAC*
1,500 VA
300 VA
0.185 kw
6/0.2/0.12 A
300 (5/5) mW (V/mA)
AgNi
24 V DC – AC
0.2 W

7 (9) 11
24 V DC – AC
0.2 W
-
(0.8 to 1.2) U _N DC
0.6 HNDC

0.05 U_NDC

1 CO contact 6/10 A 250/400 VAC* 1,500 VA 300 VA 0.185 kw 6/0.2/0.12 A 300 (5/5) mW (V/mA) AgNi 24 V DC | 24 AC 0.2 W (0.8 to 1.1) U_NAC (50/60 Hz) (0.8 to 1.2) U_NDC 0.6 U_NAC/0.6 U_NDC

0.1 U_NAC/0.05 U_NDC

Individual components, socket base					
Type/Colour grey (RAL 7032) Cat. no./Qty.	PRC 6-12-24V DC 15490.2/10	PRC 6-12-24V DC 15490.2/10	PRC 6-12-24V DC 15490.2/10	PRC 6-12-24V AC/DC 15488.2 /10	PRC 6-12-24V AC/DC 15488.2 /10
Individual components, plug relays					
Type/Rated voltage Cat. no./Qty.	PRC 1/5V DC 15500.2/10*3	PRC 1/12V DC 15501.2/10*3	PRC 1/24V DC 15502.2/10*3	PRC 1/12V DC 15501.2/10*3	PRC 1/24V DC 15502.2/10*3
Accessories AQI/PRC external insulated cross-connector	AQI/PRC/20	AQI/PRC/20	AQI/PRC/20	AQI/PRC/20	AQI/PRC/20
Cat. no./Qty. yellow	15545.8 /1	15545.8 /1	15545.8 /1	15545.8 /1	15545.8 /1
Cat. no./Qty. blue	15545.5 /1	15545.5 /1	15545.5 /1	15545.5 /1	15545.5 /1
Cat. no./Qty. black	15545.4 /1	15545.4 /1	15545.4 /1	15545.4 /1	15545.4 /1
TW/PRC partitions	TW/PRC	TW/PRC	TW/PRC	TW/PRC	TW/PRC
Cat. no./Qty.	15546.2 /1	15546.2 /1	15546.2 /1	15546.2 /1	15546.2 /1
PMC labelling/markers	PMC BSTR 6/30	PMC BSTR 6/30	PMC BSTR 6/30	PMC BSTR 6/30	PMC BSTR 6/30
Cat. no./Qty., standard print, see catalog	CONTA-CONNECT	CONTA-CONNECT	CONTA-CONNECT	CONTA-CONNECT	CONTA-CONNECT
Cat. no./Qty. neutral	9106.7 /300	9106.7 /300	9106.7 /300	9106.7 /300	9106.7 /300
Cat. no./Qty., special print	9107.7 /300	9107.7 /300	9107.7 /300	9107.7 /300	9107.7 /300
SDB screwdriver	SDB 0,6 x 3,5	SDB 0,6 x 3,5	SDB 0,6 x 3,5	SDB 0,6 x 3,5	SDB 0,6 x 3,5
Cat. no./Qty.	1086.0 /1	1086.0 /1	1086.0 /1	1086.0 /1	1086.0 /1

- The conditions of pollution degree 2 are fulfilled at 400 V.
- In order for the relay to de-energise, the residual current can be suppressed/controlled via the SPS-230 V semiconductor outputs, longe control lines (LW), thyristors, and inductive proximity switch!
- $^{\star 2}$ Since this relay is only produced for DC at a max. 60 V, the adjustment to the operating voltage occurs via the internal resistance and bridge rectifiers!
- *3 Relay available with gold contact, upon request!

PRCU 1/48V AC/DC	PRCU 1/60V AC/DC	PRCU 1/125V AC/DC	PRCU 1/240V AC/DC	PRCU LW 1/125V AC/DC	PRCU LW 1/240V AC
Transition (THE STATE OF THE S	THE STATE OF THE S
A1 orotection and indication circuit A2 Frame	A1 protection and and indication circuit b12	A1 protection and and indication circuit b12	A1 protection and and indication circuit 12	Al bleakage current suppression dircuit 12	A1 leakage 14 current 11 circuit A2 current 12 current 13 current 13 current 14 current 15 c
PRCU 1/48 V AC/DC	PRCU 1/60 V AC/DC	PRCU 1/125 V AC/DC	PRCU 1/240 V AC/DC	PRCU LW 1/125 V AC/DC	PRCU LW 1/240 V AC
15509.2/10	15510.2/10	15511.2/10*2	15512.2/10*2	15553.2/10*2	15554.2/10*2
87.3 x 6.2 x 79.9 mm	87.3 x 6.2 x 79.9 mm	87.3 × 6.2 × 79.9	87.3 x 6.2 x 79.9 mm	87.3 x 6.2 x 79.9 mm	87.3 x 6.2 x 79.9 mm
36 g	36 g	36 g	36 g	36 g	36 g
48 V AC/DC	60 V AC/DC	125 V AC/DC	230 V AC/DC	125 V AC/DC	230 V AC/
10 x 10 ⁶ /10 x 10 ⁶	10 x 10°/10 x 10°	10 x 10°/10 x 10°	10 x 10°/10 x 10°	10 x 10 ⁶ /10 x 10 ⁶	10 x 10 ⁶ /10 x 10 ⁶
60 x 10 ³	60 x 10³	60 x 10³	60 x 10³	60 x 10 ³	60 x 10 ³
5/6 ms	5/6 ms	5/6 ms	5/6 ms	5/6 ms	5/6 ms
4 kV/3	4 kV/3	4 kV/3	4 kV/3	4 kV/3	4 kV/3
6 kV	6 kV	6 kV	6 kV	6 kV	6 kV
1,000 V AC	1,000 V AC	1,000 V AC	1,000 V AC	1,000 V AC	1,000 V AC
-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C
RT II	RT II	RT II	RT II	RT II	RT II
-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C
10 mm	10 mm	10 mm	10 mm	10 mm	10 mm
1x2.5 1x2.5 mm ²	1x2.5 1x2.5 mm²	1x2.5 1x2.5 mm²	1x2.5 1x2.5 mm ²	1x2.5 1x2.5 mm ²	1x2.5 1x2.5 mm ²
1x14 1x14 AWG	1x14 1x14 AWG	1x14 1x14 AWG	1x14 1x14 AWG	1x14 1x14 AWG	1x14 1x14 AWG
1 CO contact	1 CO contact	1 CO contact	1 CO contact	1 CO contact	1 CO contact
6/10 A	6/10 A	6/10 A	6/10 A	6/10 A	6/10 A
250/400 VAC*	250/400 VAC*	250/400 VAC*	250/400 VAC*	250/400 VAC*	250/400 VAC*
1,500 VA	1,500 VA	1,500 VA	1,500 VA	1,500 VA	1,500 VA
300 VA	300 VA	300 VA	300 VA	300 VA	300 VA
0.185 kw	0.185 kw	0.185 kw	0.185 kw	0.185 kw	0.185 kw
6/0.2/0.12 A	6/0.2/0.12 A	6/0.2/0.12 A	6/0.2/0.12 A	6/0.2/0.12 A	6/0.2/0.12 A
300 (5/5) mW (V/mA)	300 (5/5) mW (V/mA)	300 (5/5) mW (V/mA)	300 (5/5) mW (V/mA)	300 (5/5) mW (V/mA)	300 (5/5) mW (V/mA)
AqNi	AqNi	AqNi	AqNii	AqNi	AqNii
48 V DC 48 AC	60 V DC 60 AC	110 to 125 V DC 110 to 125 AC	220 to 240 V DC 220 to 240 AC	110 to 125 V DC 110 to 125 AC	- V DC 220 to 240 AC
0.2 W	0.2 W	0.2 W	0.2 W	1.0 W	0.5 W
(0.8 to 1.1) U _N AC (50/60 Hz)	(0.8 to 1.1) U _N AC (50/60 Hz)	(0.8 to 1.1) U _N AC (50/60 Hz)	(0.8 to 1.1) U _N AC (50/60 Hz)	(0.8 to 1.1) U _N AC (50/60 Hz)	(0.8 to 1.1) U _N AC (50/60 Hz)
(0.8 to 1.2) U _N DC	(0.8 to 1.2) U _N DC	(0.8 to 1.2) U _N DC	(0.8 to 1.2) U _N DC	(0.8 to 1.2) U _N DC	(0.8 to 1.2) U _N DC
0.6 U _N AC/0.6 U _N DC	0.6 U _N AC/0.6 U _N DC	0.6 U _N AC/0.6 U _N DC	0.6 U _N AC/0.6 U _N DC	0.6 U _N AC/0.6 U _N DC	0.6 U _N AC/- U _N DC
0.1 U _N AC/0.05 U _N DC	0.1 U _N AC/0.05 U _N DC	0.1 U _N AC/0.05 U _N DC	0.1 U _N AC/0.05 U _N DC	0.1 U _N AC/0.05 U _N DC	0.1 U _N AC/- U _N DC
PRC 48-60V AC/DC 15496.2/10	PRC 48-60V AC/DC 15496.2/10	PRC 110 125V AC/DC 15497.2/10	PRC 220 240V AC/DC 15489.2/10	PRC LW 110 125V AC/DC 15555.2/10	PRC LW 220 240V AC 15491.2/10
PRC 1/48V DC	PRC 1/60V DC	PRC 1/60V DC	PRC 1/60V DC	PRC 1/60V DC	PRC 1/60V DC
15547.2/10*3	15503.2/10*3	15503.2/10*3	15503.2/10*3	15503.2/10*3	15503.2/10*3
AQI/PRC/20	AQI/PRC/20	AQI/PRC/20	AQI/PRC/20	AQI/PRC/20	AQI/PRC/20
15545.8/1	15545.8/1	15545.8/1	15545.8/1	15545.8/1	15545.8/1
15545.5/1	15545.5/1	15545.5/1	15545.5/1	15545.5/1	15545.5/1
15545.4/1	15545.4/1	15545.4/1	15545.4/1	15545.4/1	15545.4/1
TW/PRC	TW/PRC	TW/PRC	TW/PRC	TW/PRC	TW/PRC
15546.2/1	15546.2/1	15546.2/1	15546.2/1	15546.2/1	15546.2/1
PMC BSTR 6/30	PMC BSTR 6/30	PMC BSTR 6/30	PMC BSTR 6/30	PMC BSTR 6/30	PMC BSTR 6/30
CONTA-CONNECT	CONTA-CONNECT	CONTA-CONNECT	CONTA-CONNECT	CONTA-CONNECT	CONTA-CONNECT
9106.7/300	9106.7/300	9106.7/300	9106.7/300	9106.7/300	9106.7/300
9107.7/300	9107.7/300	9107.7/300	9107.7/300	9107.7/300	9107.7/300
SDB 0.6 x 3.5	SDB 0.6 x 3.5	SDB 0.6 x 3.5	SDB 0.6 x 3.5	SDB 0.6 x 3.5	SDB 0.6 x 3.5
1086.0/1	1086.0/1	1086.0/1	1086.0/1	1086.0 /1	1086.0/1

2

15518.2/10

36 g 12 V AC/DO

93 x 6.2 x 79.9 mm

Tension-spring relay terminals

- Consisting of:
- basic terminal and pluggable relay.
- Mount on TS 35





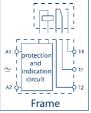






Connection diagram

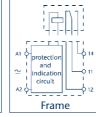
- · Internal EMC coil circuitry and LED display
- LW versions: an internal AC residual-current suppression and LED display



ZPRCU 1/6V DC

93 x 6.2 x 79.9 mm

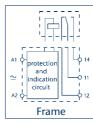
15524.2/10



ZPRCU 1/12V DC

93 x 6.2 x 79.9 mm

15525.2/10



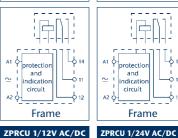
ZPRCU 1/24V DC

93 x 6.2 x 79.9 mm

15526.2/10

36 g 24 V DO

10 mm



Туре	
	Type/Colour grey (RAL 7032)
Size (L x W x H) with TS	35 x 7.5
Weight	
Rated operating voltage	
General information	
Mech. life span AC/DC	switching cycles
Electrical life span AC 1	switching cycles
Response time/release ti	me
Insulation coordination,	EN 61810-5
Dielectric strength coil/co	ntacts (1.2/50 µs)
Dielectric strength of op	en contacts
Ambient temperature	
Relay protection type	
Ratings for socket ba	ise
Ambient temperature	
Insulation stripping lend	gth
Max. connection cross-section,	solid flexible mm ²
	AWG

36 g
6 V DC
$-/10 \times 10^6$
60 x 10 ³
5/6 ms
4 kV/3
6 kV
1,000 V AC
-40 to +70 °C
RT II
-40 to +70°C
10 mm

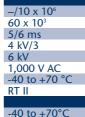
1x2.5/2x1.5 | 1x2.5/2x1.5

1x14/2x16 | 1x14/2x16



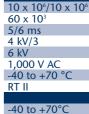
1x14/2x16 | 1x14/2x16

1 CO contact



1x2.5/2x1.5 | 1x2.5/2x1.5

1x14/2x16 | 1x14/2x16



1x2.5/2x1.5 | 1x2.5/2x1.5

1x14/2x16 | 1x14/2x16

10 mm

1 C



10 mm

1x2.5/2x1.5 | 1x2.5/2x1.5

1x14/2x16 | 1x14/2x16

15519.2/10

93 x 6.2 x 79.9 mm

Max. connection cross-section, solid flexible	mm
	AWG
Ratings for plug-relays combined with socket	base
Contacts	
Number of contacts	
Max. continuous current Max. inrush cu	rrent
Rated voltage Max. switching voltage	
Max. power rating AC 1	
Max. power rating AC 15 (230 V AC)	
1-phase motor load, AC 3 operation (230	V AC)
Max. switching current DC 1:30/110/220	V
Min. switching load	
Standard contact material	
Coil	
Rated voltage (U _N)	
Power rating AC/DC	
Operating range	
Holding current	
Drop-out voltage	

1 CO contact
6/10 A
250/400 V AC*
1,500 VA
300 VA
0.185 kW
6/0.2/0.12 A
300 (5/5) mW (V/mA)
AgNi
5 V DC – AC
0.2 W
-
(0.8 to 1.2) U _N DC

0/ 10 A
250/400 V AC*
1,500 VA
300 VA
0.185 kW
6/0.2/0.12 A
300 (5/5) mW (V/mA)
AgNi
12 V DC – AC
12 V DC – AC 0.2 W
0.2 W
0.2 W - (0.8 to 1.2) U _N DC

1 CO contact
6/10 A
250/400 V AC*
1,500 VA
300 VA
0.185 kW
6/0.2/0.12 A
300 (5/5) mW (V/mA)
AgNi
24 V DC – AC
0.2 W

400 V AC*	250/400 V AC*
0 VA	1,500 VA
VA	300 VA
5 kW	0.185 kW
2/0.12 A	6/0.2/0.12 A
5/5) mW (V/mA)	300 (5/5) mW (V/m
i	AgNi
DC – AC	12 V DC 12 A
N	0.2 W

1 CO contact	1 CO contact
6/10 A	6/10 A
250/400 V AC*	250/400 V AC*
1,500 VA	1,500 VA
300 VA	300 VA
0.185 kW	0.185 kW
6/0.2/0.12 A	6/0.2/0.12 A
300 (5/5) mW (V/mA)	300 (5/5) mW (V/mA)
300 (5/5) mW (V/mA) AgNi	300 (5/5) mW (V/mA) AgNi
AgNi	AgNi
AgNi 12 V DC 12 AC	AgNi 24 V DC 24 AC
AgNi 12 V DC 12 AC 0.2 W	24 V DC 24 AC 0.2 W

C/DC	ZPRC 6-12-24V AC/DC 15492.2 /10
d DC	0.1 U _N AC/0.05 U _N DC
DC	0.6 U _N AC/0.6 U _N DC

Individual components, socket bas

Type/Colour grey (RAL 7032) **Cat. no.**/Qty.

ZPRC 6-12-24V DC

0.6 U_N DC

0.05 U_N DC

ZPRC 6-12-24V DC

ZPRC 6-12-24V DC

(0.8 to 1.2) U_N DC

0.6 U_N DC

0.05 U_N DC

ZPRC 6-12-24V A

0.6 U_N AC/0.6 U_N

0.1 U_N AC/0.05 U_N

Individual components, plug relays
Type/Rated voltage

Type/Rated voltage Cat. no./Qty.	PRC 1/5V DC 15500.2/10*3	PRC 1/12V DC 15501.2/10*3	PRC 1/24V 15502.2/10
Accessories AQI/PRC external insulated cross-connector	AQI/PRC/20	AQI/PRC/20	AQI/PRC/2
Cat. no./Qty. yellow	15545.8 /1	15545.8 /1	15545.8 /1
Cat. no./Qty. blue	15545.5 /1	15545.5 /1	15545.5 /1

AQI/PRC/20	
15545.8 /1	
15545.5/1	
15545.4 /1	ı

PRC 1/24V DC 15502.2/10*3 AOI/PRC/20

PRC 1/12V DC 15501.2/10*3 AQI/PRC/20

15545.8/1

15545.5/1

PRC 1/24V DC 15502.2/10*3 AQI/PRC/20

15545.8/1

15545.5/1

Cat. no./Qty. black	15545.4 /1				
TW/PRC partitions	TW/PRC	TW/PRC	TW/PRC	TW/PRC	TW/PRC
Cat. no./Qty.	15546.2 /1				

PMC labelling/markers
Cat. no./Qty., standard print, see catalog
Cat. no./Qty. neutral
Cat. no./Otv., special print

BWMA metal tool

Cat. no./Qty.

PMC BSTR 6/30
CONTA-CONNECT
9106.7 /300
9107.7 /300

BWMA 1

3808.0/1

PMC BSTR 6/30 9106.7/300 9107.7/300

3808.0/1

PMC BSTR 6/30 9106.7/300 9107.7/300

3808.0/1

PMC BSTR 6/30 **CONTA-CONNECT** 9106.7/300 9107.7/300

3808.0/1

PMC BSTR 6/30 9106.7/300 9107.7/300

BWMA 1

3808.0/1

*	The conditions of pollution degree 2 are fulfilled at 400 V.

^{*1} In order for the relay to de-energise, the residual current can be suppressed/controlled via the SPS-230 V semiconductor outputs, longe control lines (LW), thyristors, and inductive proximity switch!

^{*2} Since this relay is only produced for DC at a max. 60 V, the adjustment to the operating voltage occurs via the internal resistance and bridge rectifiers!

Relay available with gold contact, upon request!

ZPRCU 1/48V AC/DC	ZPRCU 1/60V AC/DC	ZPRCU 1/125V AC/DC	ZPRCU 1/240V AC/DC	ZPRCU LW 1/125V AC/DC	ZPRCU LW 1/240V AC
A1 protection and indication circuit A2 Frame	A1 oprotection and indication circuit 12	A1 oprotection and and indication circuit A2 opening	A1 orotection and indication circuit 42 orotection 11 circuit 42 orotection 22 frame	Al Cleakage Current Suppression Gricuit Al Cleakage Current 1 11 1 12	Al of leakage current suppression dircuit A2 of 12
ZPRCU 1/48V AC/DC 15520.2/10	ZPRCU 1/60V AC/DC 15521.2/10	ZPRCU 1/125V AC/DC 15522.2/10*2	ZPRCU 1/240V AC/DC 15523.2/10*2	ZPRCU LW 1/125V AC/DC 15551.2/10*2	ZPRCU LW 1/240V AC 15552.2/10*2
93 x 6.2 x 79.9 mm 36 q	93 x 6.2 x 79.9 mm 36 q				
48V AC/DC	60V AC/DC	125V AC/DC	230V AC/DC	125V AC/DC	230V AC
10 x 10 ⁶ /10 x 10 ⁶	10 x 10 ⁶ /10 x 10 ⁶	10 x 10 ⁶ /10 x 10 ⁶	10 x 10 ⁶ /10 x 10 ⁶	10 x 10 ⁶ /10 x 10 ⁶	10 x 10 ⁶ /10 x 10 ⁶
60 x 10 ³ 5/6 ms	60 x 10 ³ 5/6 ms	60 x 10 ³ 5/6 ms	60 x 10 ³ 5/6 ms	60 x 10 ³ 5/6 ms	60 x 10 ³ 5/6 ms
4 kV/3 6 kV	4 kV/3 6 kV				
1,000 V AC	1,000 V AC -40 to +70 °C	1,000 V AC -40 to +70 °C			
-40 to +70 °C RT II	RT II	RT II	RT II	RT II	RT II
-40 to +70°C	-40 to +70°C				
10 mm	10 mm				
1x2.5/2x1.5 1x2.5/2x1.5 1x14/2x16 1x14/2x16	1x2.5/2x1.5 1x2.5/2x1.5 1x14/2x16 1x14/2x16				
1 CO contact	1 CO contact				
6/10 A 250/400 V AC*	6/10 A 250/400 V AC*				
1,500 VA	1,500 VA				
300 VA	300 VA	300 VA	300 VA	300 VA 0.185 kW	300 VA
0.185 kW 6/0.2/0.12 A	0.185 kW 6/0.2/0.12 A	0.185 kW 6/0.2/0.12 A	0.185 kW 6/0.2/0.12 A	6/0.2/0.12 A	0.185 kW 6/0.2/0.12 A
300 (5/5) mW (V/mA) AqNi	300 (5/5) mW (V/mA) AqNi	300 (5/5) mW (V/mA) AgNi	300 (5/5) mW (V/mA) AgNi	300 (5/5) mW (V/mA) AgNi	300 (5/5) mW (V/mA) AgNi
48 V DC 48 AC	60 V DC 60 AC	110125 V DC 110125 AC	220240 V DC 220240 AC	110125 V DC 110125 AC	– V DC 220240 AC
0.2 W (0.8 to 1.1) U _N AC (50/60 Hz)	0.2 W (0.8 to 1.1) U _N AC (50/60 Hz)	0.2 W (0.8 to 1.1) U _N AC (50/60 Hz)	0.2 W (0.8 to 1.1) U _N AC (50/60 Hz)	1.0 W (0.8 to 1.1) U _N AC (50/60 Hz)	0.5 W (0.8 to 1.1) U _N AC (50/60 Hz)
(0.8 to 1.2) U _N DC	(0.8 to 1.2) U _N DC				
0.6 U _N AC/0.6 U _N DC 0.1 U _N AC/0.05 U _N DC	0.6 U _N AC/0.6 U _N DC 0.1 U _N AC/0.05 U _N DC	0.6 U _N AC/0.6 U _N DC 0.1 U _N AC/0.05 U _N DC	0.6 U _N AC/0.6 U _N DC 0.1 U _N AC/0.05 U _N DC	0.6 U _N AC/0.6 U _N DC 0.1 U _N AC/0.05 U _N DC	0.6 U _N AC/- U _N DC 0.1 U _N AC/- U _N DC
ZPRC 48-60V AC/DC 15498.2/10	ZPRC 48-60V AC/DC 15498.2/10	ZPRC 110125V AC/DC 15499.2/10	ZPRC 220240V AC/DC 15493.2/10	ZPRC LW 110125 V AC/DC 15556.2/10	ZPRC LW 220240V A 15495.2/10
PRC 1/48V DC 15547.2/10*3	PRC 1/60V DC 15503.2/10*3	PRC 1/60V DC 15503.2/10*3	PRC 1/60V DC 15503.2/10*3	PRC 1/60V DC 15503.2/10*3	PRC 1/60V DC 15503.2/10*3
AQI/PRC/20	AQI/PRC/20	AQI/PRC/20	AQI/PRC/20	AQI/PRC/20	AQI/PRC/20
15545.8 /1	15545.8 /1				
15545.5 /1 15545.4 /1	15545.5 /1 15545.4 /1	15545.5/1 15545.4/1	15545.5/1 15545.4/1	15545.5/1 15545.4/1	15545.5 /1 15545.4 /1
TW/PRC	TW/PRC	TW/PRC	TW/PRC	TW/PRC	TW/PRC
15546.2 /1	15546.2 /1	15546.2 /1	15546.2 /1	15546.2/1	15546.2 /1
PMC BSTR 6/30 CONTA-CONNECT 9106.7/300	PMC BSTR 6/30 CONTA-CONNECT 9106.7/300				
9107.7 /300	9107.7 /300				
BWMA 1 3808.0 /1	BWMA 1 3808.0 /1				

Relay terminals with 2-CO relays

The new PRC 2W relay bases enable the integration of relays with two CO contacts into the proven PRC relay system. This base also features the well-known advantages of this system, including simple bridging with jumpers and a thin design. They are available either with tension-spring or screw connection. Dependable functioning is always certain because of the combination with the proven PRS-system relays.

1. Overview

Pluggable relays Pluggable relays are also available with AgSNO and gold contacts, to fit with the many functions of your individual requirements!



Mounts on standard TS 35 rail **CONTA-CLIP** relay terminal can be flexibly mounted on standard TS 35 mounting rails according to EN 50035 and EN 50022.

Using the mount/dismount lever The mounting and dismounting mechanism forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever!







The AQI / PRC pluggable cross-connection system enables a time-saving distribution of potentials. The AQI/PRC is constructed so that it is protected against accidental touch. It is available as a 8-pole unit, in either yellow, blue or black. The cross-connector can be shortened to fewer poles in order to fit the required interface.

Insulation plating can be used to insulate the ends.

The socket bases have a labelling sur-

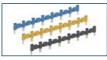
face which is optimally suited for our PMC Pocket-Maxicard (MC GS 6x12 R) standard

CONTA-CLIP can also provide "just-in-time"

Labelling | Marking

marking system.

individual labelling for you.



Connection types All of our relay terminals are optionally available with screw or tension-spring con-





2. Approvals (Details upon request)







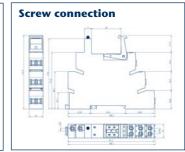
3. Features

I. Socket base

nection systems.

- Mount on TS 35
- · Very flexible and modular construction of individual relay bases
- User-friendly, because the relays can be easily replaced
- High-quality connection terminals (Tension-spring or screw connection system)
- Integrated EMC coil circuitry, and LED
- · High-quality innovative mount/dismount lever
- All versions are available either with the screw or tension-spring connection system

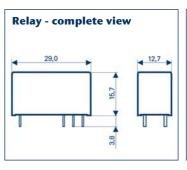
Tension-spring connection

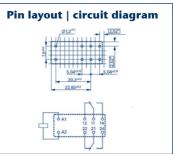


Relay terminals with 2-CO relays

II. Relay

- PLUG RELAY SYSTEM relay 2-CO
- · Load-independent switching
- Direct control via the PLC outputs
- High interference immunity
- Electrical isolation of control and load circuits
- Minimal contact resistance, and high insulation resistance



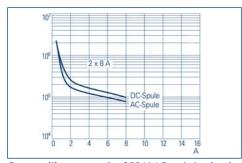


4. Specifications

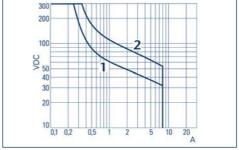
Insulation data		
Dielectric strength	Coil-contact arrangement	5000 Veff
	Opened contact	1000 Veff
	Adjacent contacts	2500 Veff
Clearance/creepage distances	Coil-contact arrangement	≤ 10 / 10 mm
	Adjacent contacts	≤ 3 / 4 mm
Insulating material group		≤ IIIa
Creep resistance of carrier		PTI 250 V
Insulation acc. to IEC 60664-1		
Type of insulation	Coil-contact arrangement	Strengthened insul.
	Opened contact	Functional insul.
	Adjacent contacts	Basic insul.
Rated voltage		250 V
Pollution degree		3
Nominal volt. of the supply syst	em	240/400 V
Overvoltage category		III

Flammability class acc. to UL94	V 0
Ambient temperature range	-40/+85°C
Response/release time of DC coil	typ. 7 / 2 ms
Bounce time of DC spool, NO / NC	typ. 1 / 3 ms
Fatigue strength (functional), NO / NC	20 / 5 g, 30 – 500 Hz
Shock resistance (destructive)	100 g
Protection	RTII
Mounting interval	0 mm, dens. packaged
Weight	14 g

5. Contact data







Switching capacity under DC load

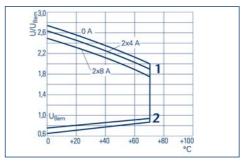
Resistive load

- 1 one contact
- 2 two contacts in series

DC version

6. Coil data

DC AGL21011				
Rated voltage	Operatin	g Range	Resistance	Rated current
U _N	U _{min}	U _{max}	R	I,
V	V	V	Ω	mA
5	3.5	0.5	62 ± 10%	403
6	4.20	0.6	90 ± 10%	400
12	8.4	1.2	360 ± 10%	400
24	16.80	2.4	1440 ± 10%	400
48	33.60	4.8	5520 ± 10%	417
60	42.00	6.0	8570 ± 12%	420
110	77.0	11.0	28800 ± 13%	420



Reliable range of operating voltage

- 1 Max. permitted coil voltage
- **2** Response voltage, when coil temperature equal to ambient temperature

Relay terminal tension-spring/screw connection PRCU 2/12V AC/DC PRCU 2/24V AC/DC PRCU 2/240V AC/DC

- consisting of:
- · Basic terminal and pluggable relay
- · Mount on TS 35

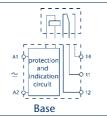


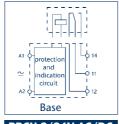


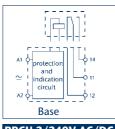


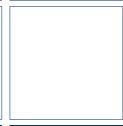
Connection diagram

· Internal EMC coil circuitry and LED display









Type Cat. no./Qty.

Size (L x W x H) with TS 35 Weight

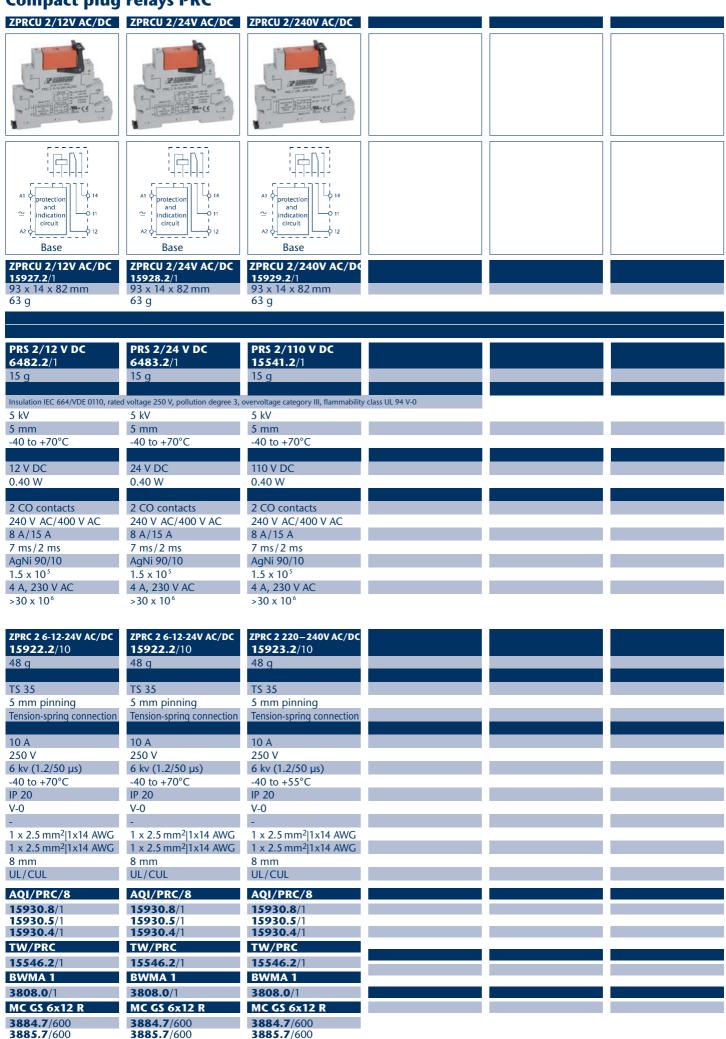
PRCU 2/12V AC/DC 15924.2/1 92 x 14 x 82 mm 68 g

PRCU 2/24V AC/DC **15925.2**/1 92 x 14 x 82 mm 68 g

PRCU 2/240V AC/DC **15926.2**/1 92 x 14 x 82 mm 68 g

Туре	PRS 2/12 V DC	PRS 2/24 V DC	PRS 2/110 V DC
Cat. no./Qty.	6482.2 /1	6483.2 /1	15541.2 /1
Weight	15 g	15 g	15 g
General information			
DIN-VDE specifications	Insulation IEC 664/VDE 0110, ra	ted voltage 250 V, pollution degree	3, overvoltage category III, flammability class UL
Test voltage coil/contact	5 kV	5 kV	5 kV
Pinning	5 mm	5 mm	5 mm
Operating temperature	-40 to +70°C	-40 to +70°C	-40 to +70°C
Input data			
Input voltage	12 V DC	24 V DC	110 V DC
Rated power consumption	0.40 W	_0.40 W	0.40 W
Output data			
Contacts	2 CO contacts	2 CO contacts	2 CO contacts
Switching voltage/Max. switching voltage	240 V AC/400 V AC	240 V AC/400 V AC	240 V AC/400 V AC
Max continuous current/inrush current	8 A/15 A	8 A/15 A	8 A/15 A
Typical response time/release time	7 ms/2 ms	7 ms/2 ms	7 ms/2 ms
Contact material	AgNi 90/10	AgNi 90/10	AgNi 90/10
Electrical life span	1.5 x 10 ⁵	1.5 x 10 ⁵	1.5 x 10 ⁵
At contact load	4 A, 230 V AC	4 A, 230 V AC	4 A, 230 V AC
Mechanical life span	>30 x 10 ⁶	>30 x 10 ⁶	>30 x 10 ⁶

At contact load	4 A, 230 V AC	4 A, 230 V AC	4 A, 230 V AC	
Mechanical life span	>30 x 10 ⁶	>30 x 10 ⁶	>30 x 10 ⁶	
Tuno	PRC 2 6-12-24V AC/DC	PRC 2 6-12-24V AC/DC	PRC 2 220 – 240V AC/DC	
Type Cat. no./Qty.	15920.2/10	15920.2/10	15921.2/10	
Weight	53 q	53 g	53 q	
General	33 <u>g</u>	33 g	33 g	
Mounting foot for DIN rails	TS 35	TS 35	TS 35	
Plug-in base for	5 mm pinning	5 mm pinning	5 mm pinning	
Connection type	Screw connection	Screw connection	Screw connection	
Technical data	Sciew connection	Serew connection	Screw connection	
Rated current	10 A	10 A	10 A	
Rated voltage	250 V	250 V	250 V	
Dielectric strength coil/contact	6 kv (1.2/50 μs)	6 kv (1.2/50 μs)	6 kv (1.2/50 μs)	
Ambient temperature	-40 to +70°C	-25 to +70°C	-40 to +55°C	
Protection degree, enclosure	IP 20	IP 20	IP 20	
Flammability class UL 94	V-0	V-0	V-0	
Torque	0.5 Nm	0.5 Nm	0.5 Nm	
Connection cross-section, solid, max.	1x6/2x2.5mm ² 1x10/2x14 AWG	1x6/2x2.5mm ² 1x10/2x14 AWG	1x6/2x2.5mm ² 1x10/2x14 AWG	
Connection cross-section, stranded, max.	1x4/2x2.5mm ² 1x12/2x14 AWG	1x4/2x2.5mm ² 1x12/2x14 AWG	1x4/2x2.5mm ² 1x12/2x14 AWG	
Insulation stripping length	8 mm	8 mm	8 mm	
Approvals	UL/CUL	UL/CUL	UL/CUL	
Accessories AQI/PRC external insulated cross-connector	AQI/PRC/8	AQI/PRC/8	AQI/PRC/8	
Cat. no./Qty. yellow	15930.8 /1	15930.8 /1	15930.8/1	
Cat. no./Qty. blue	15930.5 /1	15930.5 /1	15930.5 /1	
CatNo./Qty. black	15930.4 /1	15930.4 /1	15930.4 /1	
TW/PRC partitions	TW/PRC	TW/PRC	TW/PRC	
Cat. no./Qty.	15546.2 /1	15546.2 /1	15546.2 /1	
Tool/screw driver	SDB 0,6 x 3,5	SDB 0,6 x 3,5	SDB 0,6 x 3,5	_
Cat. no./Qty.	1086.0 /1	1086.0 /1	1086.0 /1	
MC labelling / markers	MC GS 6x12 R	MC GS 6x12 R	MC GS 6x12 R	
Cat. no./Qty., blank	3884.7 /600	3884.7 /600	3884.7 /600	
Cat. no./Qty., special print	3885.7 /600	3885.7 /600	3885.7 /600	



Plug relay system PRS

Screw-clamp connection

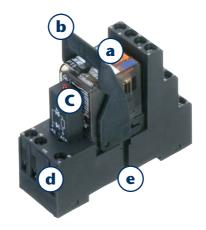
1. Overview

Pluggable relays

Pluggable relays are also available with AgSNO and gold contacts, to fit with the many functions of your individual requirements!



Mounts on standard TS 35 rail CONTA-CLIP relay bases can be flexibly mounted on standard TS 35 mounting rails according to EN 50035 and EN 50022.



AQI/PRS external cross-connector

The AQI/PRS external cross-connection system enables a time-saving distribution of potentials. With this system, you can save time when coupling multiple relay components.

Using the mount/dismount lever
The mounting and dismounting mechanism forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever!





Pluggable LED and protective modules

Pluggable modules allow easy insertion into the base module, with reverse-connect protection. Their circuitry is effective in parallel to the coil of the deployed relay.



2. Features

I. Relay

- PLUG RELAY SYSTEM (relays with 1, 2, or 4 COs)
- · Load-independent switching
- Direct control via the SPS outputs
- · High interference immunity
- Electrical isolation of control and load circuits
- · Minimal contact resistance, and high insulation resistance
- PRS XT relay features switch/button for HAND/AUTOMATIC switching and an integrated LED to show the status of the switch
- PRS 4 relay features switch/button for HAND/AUTOMATIC switching
- PRS 4 eco relay features switch/button for HAND/AUTOMATIC switching, and an integrated LED for signalling the switching status

Technical data for the available relays can be found on the following product pages.











Plug relay system PRS

Screw-clamp connection

II. Socket base

- · Mount on TS 35
- Very flexible and modular construction of individual relay bases
- User-friendly, because the relays can be easily replaced
- · High-quality connection terminals
- · Wire strands protected against false insertion
- · Terminal screws retention prevents loss
- Pluggable LED display with additional protective circuitry
- · Holding clamp made of high-quality plastic

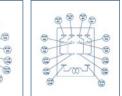












Type Cat. no./Qty.
Size (L x W x H) with TS 35
Size with holding clamp (L x W x H) with TS 35
Weight
General
Mounting foot for DIN rails
Plug-in modules for
Connection type
Technical data
Rated current
Rated voltage
Dielectric strength coil/contact
Insulation group (VDE 0110 b)
Ambient temperature
Protection degree, enclosure
Flammability class UL 94
Touch protection, acc. to
Connection cross-section
With ferrules
Screw torque
Approvals







PRS 4 G
15324.2 /1
76 x 27.1 x 66 mm
76 x 27.1 x 87 mm
65 g
TS 35
2.8 mm fast-on
Screw connection
10 A
300 V
2400 Veff
C/250 V
-25 to +80°C
IP 20
V-0
VBG 4
2 x 2.5 mm ²
2 x 1.5 mm ²
max. 0.8 Nm
IIIax. 0.0 IVIII

III. Insert modules

- · Plugs simply into the base, reverse-connect protection
- · Circuitry parallel to coil

Cat. no./Qty.	Туре	Voltage range	
15141.2 /1	PRS LED(RD) 24V DC	12 to 24 V DC	Status display with free-wheel diode
15142.2 /1	PRS LED(RD) 230V AC	110 to 230 V AC	Status display
15175.2 /1	PRS LED(RD) 24V UC	12 to 48 V AC/DC	Status display
15422.2 /1	PRS LED(RD)/110V DC	60 to 110 V DC	Status display with free-wheel diode
15810.2 /1	PRS LED(RD) 230V UC Var.	24 V AC/DC	Status display with varistor
16070.2 /1	PRS LED(GN) 24V UC Var.	230 V AC/DC	Status display with varistor
15808.2 /1	PRS RC 24V AC	24 V AC	Plug-in module with RC element
15809.2 /1	PRS RC 240V AC	240 V AC	Plug-in module with RC element



IV. Holding clamp

The mount/dismount clamp forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever.

Cat. no./Qty.	Туре	Weight	
15138.2 /1	PRS C 1/C 2	2 g	
15140.2 /1	PRS C 4	4 g	
15628.2 /1	PRS C 4 eco	4 g	
16016.2 /1	PRSXT C1/2	4 g	





V. Contact bridge

· A simple and quick bridge to multiple relay blocks

Cat. no./Qty.	Туре		Weight
15778.2 /1	AQI PRS/5	A contact bridge, for bridging five PRS 4 4 CO frames	4 g
15779.2 /1	AQI PRS/8	A contact bridge for bridging up to 8 PRS 1 or PRS 2 1 and 2 CO frames	4 g





Relay 1-CO PRS 1 XT

Complete screw-connection units consisting of:

- · Relay
- · Socket base
- · Holding clamp

Type Cat. no./Qty.



PRSUXT 1/24V DC **16086.2** / 1

76 x 15.7 x 76 mm 56g



PRSUXT 1/24V AC

PRSUXT 1/24V AC **16087.2** / 1

76 x 15.7 x 76 mm 56a





PRSUXT 1/230V DC **16088.2** / 1

76 x 15.7 x 76 mm 56g



PRSUXT 1G/24V DC **16089.2** / 1 76 x 15.7 x 76 mm

Individual components

Size (L x W x H) with TS 35×7.5

d status display

Relay 1W, open design, with switch ar
Туре
Cat. no./Qty.
Dimensions (L x W x H)
Weight
Common data
DIN-VDE specifications
Test voltage coil/contact
Operating temperature
Lockable test button
Indicators
Mechanical indicator
Free-wheel diode
Input data
Input voltage
Rated power consumption
Frequency
Output specifications

Electrical service life Mechanical service life

PRSXT 1/24V DC **16083.2** / 1 29 x 13 x 30.55 mm

16q

2.5 KV

red LED

24 V DC

0.4W

yes

yes

-40 to +70°C

PRSXT 1/24V AC **16084.2** / 1

29 x 13 x 30.55 mm 16q

2.5 KV

red LED

yes

no

-40 to +70°C

PRSXT 1/230V DC 16085.2 / 1 29 x 13 x 30.55 mm

16q

2.5 KV

-40 to +70°C

PRSXT 1/24V DC **16083.2** / 1 29 x 13 x 30.55 mm

16q

56a

nmability class UL 94 V-0

Lockable lest button
Indicators
Mechanical indicator
Free-wheel diode
Input data
Input voltage
Rated power consumption
Frequency
Output specifications
Contacts
Switching voltage/Max. switching voltage
Max. continuous current
Max. inrush current 4s / 30 ms
Max. contact load
Min. suggested contact load
Voltage drop
Max. switching frequency at operating load
Max. switching frequency without load
Typical response time/release time
Contact material
Electrical service life

1 CO contact 240 V AC/400 V AC 16 A, 240 V AC 30 A /300 A 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 8 ms/6 ms AgNi 90/10 50 x 10³ 10 x 106

PRSXT C1/2

16016.2 / 20

50/60 Hz 1 CO contact 30 A /300 A 4000 VA 12V at 10mA 8 ms/6 ms AgNi 90/10 50 x 10³ 5 x 106

24V AC 0.76VA 240 V AC/400 V AC 16 A, 240 V AC 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour

red LED yes yes no yes 230V AC 0.74VA 0.4W 50/60 Hz 1 CO contact 240 V AC/400 V AC 16 A, 240 V AC 30 A /300 A 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 8 ms/6 ms AgNi 90/10 50 x 10³ 5 x 106

2.5 KV -40 to +70°C red LED 24 V DC 1 CO contact 240 V AC/400 V AC

16 A, 240 V AC 30 A /300 A 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 8 ms/6 ms AqNi 90/10 50 x 10³ 10 x 106

PRSXT C1/2

16016.2 / 20

Socket base

Туре	PRS 2	PRS 2	PRS 2	PRS 2 G
Cat. no./Qty.	15136.2 / 1	15136.2 / 1	15136.2 / 1	15320.2 / 1
Overview				
Mounting foot for DIN rails	TS 35	TS 35	TS 35	TS 35
Plug-in base for	5mm pinning	5mm pinning	5mm pinning	5mm pinning
Connection type	Screw connection	Screw connection	Screw connection	Screw connection
Technical data				
Rated current	10A	10A	10A	10A
Rated voltage	300 V	300 V	300 V	300 V
Dielectric strength	4000 Veff	4000 Veff	4000 Veff	4000 Veff
Insulation group (VDE 0110b)	C/250 V	C/250 V	C/250 V	C/250 V
Ambient temperature	-25 +80°C	-25 +80°C	-25 +80°C	-25 +80°C
Protection degree, enclosure	IP 20	IP 20	IP 20	IP 20
Flammability class UL 94	V-0	V-0	V-0	V-0
Touch protection, acc. to	VBG 4	VBG 4	VBG 4	VBG 4
Connection cross-section	2 x 2.5 mm ²			
With ferrules	2 x 1.5 mm ²			
Screw torque	max. 0.8 Nm	max. 0.8 Nm	max. 0.8 Nm	max. 0.8 Nm
Stripping length	7 mm	7 mm	7 mm	7 mm
Approvals	UL/CSA	UL/CSA	UL/CSA	UL/CSA
Holding clamp				

PRSXT C1/2

16016.2 / 20

PRSXT C1/2

16016.2 / 20

Type Cat. no./Qty.

PRSUXT 1C/24V AC 16091.2 / 1 76 x 15.7 x 76 mm 56g FRSXT 1/24V AC 16091.2 / 1 76 x 15.7 x 76 mm 56g FRSXT 1/24V AC 16083.2 / 1 29 x 13 x 30.55 mm 16g Insulation IEC 664/VDE 0110, 2.5 KV 40 to +70°C 40 to +70					
160910.2 / 1	PRSUXT 1G/24V AC	PRSUXT 1/230V DC			
16091.2 / 1					
16090.2_/1					
16090.2 / 1					
16090.2./ 1	1 5	11 5			
16090_2/1					
16090_2/1	PRSUXT 1G/24V AC	PRSUXT 1G/230V AC			
PRSXT 1/24V AC 16084:2 /1 29 x 13 x 30.55 mm 16g 16g 18sulation IEC 664/NDE 010; Rated voltage 250 V, contamination degree 3, Overvoltage category III, Hammability class U 2.5 kV 40 to +70°C yes yes 700 yes 900 yes	16090.2 / 1	16091.2 / 1			
PRSXT 1/24 V AC 16084.2 / 1					
16084.2 / 1 29 x 13 x 30.55 mm 16g	309	309			
16084.2 / 1 29 x 13 x 30.55 mm 16g					
29 x 13 x 30.55 mm 16g 1	PRSXT 1/24V AC				
16g					ı
40 to +70°C yes ye	16g				Ī
2.5 KV 40 to +70°C 40 to +70°C 40 to +70°C yes yes yes red LED red LED red LED yes no no no 24V AC 0.76VA 0.76VA 0.76VA 50/60 Hz 1 CO contact 240 V AC/400 V AC 16 A, 240 V AC 30 A /300 A 4000 VA 4000 VA 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Tycles per hour 3600 Tycles per hour 36000 Tycles per hour 36000 Tycles per hour 360	Insulation IEC 664/VDF 0110	Rated voltage 250 V contamin	ation degree 3. Overvoltage cat	regory III. Flammability class UI	9.
yes red LED red LED yes on the LED yes yes yes no	2.5 KV	2.5 KV	g o , o . c. roi age tat	July my manifest class of	-
red LED yes yes no no 24V AC 0.76VA 230V AC 0.76VA 50/60 Hz 1 CO contact 1 CO contact 240 V AC/400 V AC 16 A, 240 V AC 30 A /300 A 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 36000 Cycles per hour 36001 S x 103 5 x 106 PRS 2 G 15320.2 / 1 TS 35 Smm pinning Screw connection PRS 2 G 15320.2 / 1 TS 35 Smm pinning Screw connection 10A 10A 300 V 4000 Veff C/250 V 25 +80°C IP 20 V-0 V-0 V-0 V-0 V-0 V-0 V-0 V-0 V-0 V-	-40 to +70°C				
yes	red LED				
24V AC 0.76VA 0.76VA 0.76VA 50/60 Hz 1 CO contact 1 CO contact 240 V AC/400 V AC 16 A, 240 V AC 16 A, 240 V AC 16 A, 240 V AC 17 AC V AC 18 A, 240 V AC 19 A 100 A 1	yes	yes			
0.76VA 50/60 Hz 50/60 Hz 50/60 Hz 50/60 Hz 50/60 Hz 50/60 Hz 1 CO contact 240 V AC/400 V AC 16 A, 240 V AC 30 A /300 A 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 36000 Cycles per hour 36000 Cycles per hour 50 X 10³ 50 X 10³ 5 X 106 PRS 2 G 15320.2 / 1 TS 35 TS 35 5mm pinning 5crew connection 5crew connection 10A 300 V 4000 Veff C/250 V -25 +80°C 1P 20 V-0 V-0 V-0 V-0 V-0 V-0 V-0 V-0 V-CSA PRSXT C1/2 PRSXT C1/2 PRSXT C1/2 PRSXT C1/2	no	no			
50/60 Hz 1 CO contact 240 V AC/400 V AC 16 A, 240 V AC 30 A /300 A 300 A /300 A 4000 VA 12V at 10mA 12V at 10mA 12V at 10mA/6VDC 360 Cycles per hour 36000 Cycles per hour 3600 Cycles per hour 36000	24V AC				
1 CO contact 240 V AC/400 V AC 16 A, 240 V AC 16 A, 240 V AC 16 A, 240 V AC 30 A /300 A 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 36000 Cycles per hour 36000 Cycles per hour 36000 Tycles per hour 3600 Tycles per hour 36000 Ty					
240 V AC/400 V AC 16 A, 240 V AC 16 A, 240 V AC 30 A /300 A 4000 VA 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 36000 Cycles per hour 38 ms/6 ms 4 ms/6 ms 4 ms/6 ms 4 ms/6 ms 4 ms/6 ms 5 x 106 PRS 2 G 15320.2 / 1 T 3 35 Srmm pinning Screw connection 10A 300 V 300 V 4000 Veff C/250 V -25 +80°C 1P 20 V-0 V-0 V-0 V-0 V-0 V-0 V-0 V-0 V-0 V-					
16 A, 240 V AC 30 A / 300 A 30 A / 300 A 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycl	1 CO contact				
4000 VA 12V at 10mA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per	16 A, 240 V AC				
12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 36000 Cycles per hour 36000 Cycles per hour 36000 Cycles per hour 8 ms/6 ms 8 ms/6 ms AgNi 90/10 50 x 10³ 5 x 106 PRS 2 G 15320.2 / 1 TS 35 5mm pinning Screw connection 10A 300 V 4000 Veff C/250 V -25 +80°C IP 20 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² 0 max. 0.8 Nm 7 mm UL/CSA 360 Cycles per hour 3600 Cycles per hour 3600 Cycles per hour 3600 Cycles per hour 3600 Cycles per hour 360 Cycles per hour 3600 Cycles per hour 360 Cycles p	30 A /300 A	30 A /300 A			
30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 8 ms/6 ms AgNi 90/10 50 x 10³ 50 x 10³ 5 x 106 PRS 2 G 15320.2 / 1 TS 35 5mm pinning Screw connection 10A 300 V 4000 Veff C/250 V -25 +80°C IP 20 VPO VPO VPG 4 2 x 2.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² 7 mm UL/CSA JONO V Service our Som Williams 360 Cycles per hour 3600 Cycles per hour 36000 Cycles per hou					
36000 Cycles per hour 8 ms/6 ms AgNi 90/10 AgNi 90/10 So x 10 ³ 50 x 10 ³ 5 x 106 S x 106 PRS 2 G 15320.2 / 1 TS 35 TS 35 5mm pinning Screw connection 10A 10A 10A 300 V 4000 Veff C/250 V -25 +80°C IP 20 IP 20 V-0	30mV at 100mA/6VDC	30mV at 100mA/6VDC			
8 ms/6 ms AgNi 90/10 S0 x 10³ S0 x 10³ S x 106 PRS 2 G 15320.2 / 1 TS 35 Smm pinning Screw connection 10A 300 V 4000 Veff C/250 V -25 +80°C IP 20 IP 20 V-0 V-0 VBG 4 2 x 2.5 mm² 2 2 x 1.5 mm² max. 0.8 Nm 7 mm UL/CSA PRS 2 G 15320.2 / 1 15320.2					ì
50 x 10 ³ 5 x 106 PRS 2 G 15320.2 / 1 TS 35 5mm pinning 5crew connection 10A 300 V 4000 Veff C/250 V -25 +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 2 x 1.5 mm² 2 2 x 1.5 mm² max. 0.8 Nm 7 mm UL/CSA PRSXT C1/2 PRSXT C1/2 PRSXT C1/2	8 ms/6 ms	8 ms/6 ms			ĺ
FRS 2 G PRS 2 G 15320.2 / 1 15320.2 / 1 TS 35 TS 35 5 mm pinning 5mm pinning Screw connection Screw connection 10A 10A 300 V 300 V 4000 Veff C/250 V -25 +80°C -25 +80°C IP 20 IP 20 V-0 V-0 VBG 4 VBG 4 2 x 2.5 mm² 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm 7 mm 7 mm UL/CSA UL/CSA	AgNi 90/10				
15320.2 / 1 TS 35 5mm pinning 5mm pinning Screw connection 10A 300 V 4000 Veff C/250 V -25 +80°C IP 20 IP 20 IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm 7 mm UL/CSA 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 15320.2 / 1 10A 300 V 4000 Veff C/250 V -25 +80°C IP 20 IP	5 x 106				
15320.2 / 1 TS 35 5mm pinning Screw connection 10A 300 V 4000 Veff C/250 V -25 +80°C IP 20 IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm 7 mm UL/CSA TS 35 TS 35 TS 35 5mm pinning Screw connection 10A 300 V 4000 Veff C/250 V -25 +80°C IP 20 IP					
TS 35 5mm pinning 5crew connection 10A 300 V 4000 Veff C/250 V -25 +80°C IP 20 IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² max. 0.8 Nm 7 mm UL/CSA PRSXT C1/2 PRSXT C1/2 TOA Some pinning Smm pinning Screw connection 10A 300 V 4000 Veff C/250 V -25 +80°C IP 20 V-0 V-0 V-0 V-0 V-0 V-0 VBG 4 VBG	PRS 2 G	PRS 2 G			
5mm pinning 5mm pinning Screw connection Screw connection 10A 10A 300 V 300 V 4000 Veff C C/250 V C/250 V -25 +80°C -25 +80°C IP 20 IP 20 V-0 V-0 VBG 4 VBG 4 2 x 2.5 mm² 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm 7 mm 7 mm UL/CSA UL/CSA	15320.2 / 1	15320.2 / 1			
Screw connection Screw connection 10A 10A 300 V 300 V 4000 Veff 4000 Veff C/250 V C/250 V -25 +80°C -25 +80°C IP 20 IP 20 V-0 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² max. 0.8 Nm 7 mm 7 mm 7 mm UL/CSA UL/CSA	TS 35				
10A					
300 V 4000 Veff 4000 Veff C/250 V -25 +80°C IP 20 V-0 VBG 4 VBG 4 VBG 4 VBG 4 VS 2 x 2.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² max. 0.8 Nm 7 mm VL/CSA PRSXT C1/2 PRSXT C1/2 PRSXT C1/2					
4000 Veff C/250 V C/250 V C/250 V C/25 +80°C IP 20 IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² max. 0.8 Nm 7 mm UL/CSA PRSXT C1/2 PRSXT C1/2 4000 Veff C/250 V C	10A				
C/250 V	4000 Veff				
IP 20 V-0 V-0 VBG 4 VBG 4 2 x 2.5 mm ² 2 x 1.5 mm ² 2 x 1.5 mm ² max. 0.8 Nm 7 mm 7 mm UL/CSA UL/CSA IP 20 V-0 VBG 4 VBG 9	C/250 V	C/250 V			
V-0 VBG 4 VBG 4 2 x 2.5 mm ² 2 x 1.5 mm ² 2 x 1.5 mm ² max. 0.8 Nm 7 mm 7 mm UL/CSA UL/CSA VBG 4 2 x 2.5 mm ² 2 x 1.5 mm ²					
2 x 2.5 mm ² 2 x 1.5 mm ² 2 x 1.5 mm ² max. 0.8 Nm max. 0.8 Nm 7 mm UL/CSA UL/CSA UL/CSA PRSXT C1/2 PRSXT C1/2	V-0	V-0			
2 x 1.5 mm ² 2 x 1.5 mm ² max. 0.8 Nm max. 0.8 Nm 7 mm 7 mm UL/CSA UL/CSA PRSXT C1/2 PRSXT C1/2	VBG 4				
max. 0.8 Nm	2 x 2.5 mm ² 2 x 1.5 mm ²				
UL/CSA UL/CSA PRSXT C1/2 PRSXT C1/2	max. 0.8 Nm	max. 0.8 Nm			
PRSXT C1/2 PRSXT C1/2	7 mm UL/CSA				
					j
	PRSXT C1/2				
16016.2 / 20	16016.2 / 20	16016.2 / 20			

Relay 2-CO PRS 2 XT

Complete screw-connection units consisting of:

- · Relay
- · Socket base
- · Holding clamp

Type
Cat. no./Qty.



PRSUXT 2/24V DC **16017.2** / 1

76 x 15.7 x 76 mm 56a



PRSUXT 2/24V AC 16018.2 / 1

76 x 15.7 x 76 mm 56a





PRSUXT 2/230V DC **16019.2** / 1

76 x 15.7 x 76 mm 56a



PRSUXT 2G/24V DC **16020.2** / 1

76 x 15.7 x 76 mm 56a

Size (L x W x H) with TS 35×7.5

Individual components Relay 2W, open design, with switch and status display

Type Cat. no
Dimens
Weight
Comm
DIN-VD
Test vol

Contact material

Electrical service life Mechanical service life

PRSXT 2/24V DC **16013.2** / 1

29 x 13 x 30.55 mm 16a

Insulation IEC 664/VDE 0110,

2.5 KV

yes

24 V DC 0.4W

-40 to +70°C ves red LED

PRSXT 2/24V AC **16014.2** / 1

29 x 13 x 30.55 mm 16q

16015.2 / 1 29 x 13 x 30.55 mm

PRSXT 2/230V DC

16q

PRSXT 2/24V DC **16013.2** / 1 29 x 13 x 30.55 mm

Cat. no./Qty.
Dimensions (L x W x H)
Weight
Common data
DIN-VDE specifications
Test voltage coil/contact
Operating temperature
Lockable test button
Indicators
Mechanical indicator
Free-wheel diode
Input data
Input voltage
Rated power consumption
Frequency
Output specifications
Contacts
Switching voltage/Max. switching voltage
Max. continuous current
Max. inrush current 4s / 30 ms
Max. contact load
Min. suggested contact load
Voltage drop
Max. switching frequency at operating load
Max. switching frequency without load
Typical response time/release time

2 CO contact 240 V AC/400 V AC 8 A, 240 V AC 15 A /300 A 2000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 10 ms/5 ms AqNi 90/10 50 x 10³ 10 x 10⁶

2.5 KV -40 to +70°C red LED yes no 24V AC 0.76VA 50/60 Hz

2 CO contact 240 V AC/400 V AC 8 A, 240 V AC 15 A /300 A 2000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 10 ms/5 ms AqNi 90/10 50 x 10³ 5 x 10⁶

2.5 KV -40 to +70°C red LED yes no 230V AC 0.74VA 50/60 Hz 2 CO contact

240 V AC/400 V AC 8 A, 240 V AC 15 A /300 A 2000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 10 ms/5 ms AqNi 90/10 50 x 10³ 5 x 10⁶

16q ability class UL 94 V-0 2.5 KV -40 to +70°C

red LED yes yes 24 V DC 0.4W

2 CO contact 240 V AC/400 V AC 8 A, 240 V AC 15 A /300 A 2000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 10 ms/5 ms AqNi 90/10 50 x 10³ 10 x 10⁶

Socket base

Type Cat. no./Qty.	PRS 2 15136.2
Overview	
Mounting foot for DIN rails	TS 35
Plug-in base for	5mm pinn
Connection type	Screw con
Technical data	
Rated current	10A
Rated voltage	300 V
Dielectric strength	4000 Veff
Insulation group (VDE 0110b)	C/250 V
Ambient temperature	-25 +80°
Protection degree, enclosure	IP 20
Flammability class UL 94	V-0
Touch protection, acc. to	VBG 4
Connection cross-section	2 x 2.5 mr
With ferrules	2 x 1.5 mr
Screw torque	max. 0.8 N
Stripping length	7 mm
Approvals	UL/CSA
Holding clamp	

ning nnection

 m^2 ım² Nm PRS 2 15136.2

5mm pinning Screw connection 10A 300 V 4000 Veff C/250 V -25... +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm 7 mm UL/CSA

PRS 2 **15136.2** / 1

TS 35 5mm pinning Screw connection 10A 300 V 4000 Veff C/250 V -25... +80°C IP 20 V-0 VBG 4 2 x 2.5 mm²

PRS 2 G **15320.2** / 1

5mm pinning

TS 35

Screw connection 10A 300 V 4000 Veff C/250 V -25... +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm 7 mm UL/CSA

Type Cat. no./Qty

PRSXT C1/2 **16016.2** / 20

PRSXT C1/2 **16016.2** / 20

PRSXT C1/2 **16016.2** / 20

2 x 1.5 mm²

max. 0.8 Nm

7 mm

UL/CSA

PRSXT C1/2 **16016.2** / 20

PRSUXT 2G/24V AC	PRSUXT 2G/230V AC
A	
THE STATE OF	The same
Contract to	SH P
7 3	7 5
PRSUXT 2G/24V AC	PRSUXT 2G/230V AC
16021.2/ 1	16022.2 / 1
76 x 15.7 x 76 mm	76 x 15.7 x 76 mm
56g	56g
PRSXT 2/24V AC	PRSXT 2/230V DC
16014.2 / 1 29 x 13 x 30.55 mm	16015.2 / 1 29 x 13 x 30.55 mm
16q	16g
- 39	· • • • • • • • • • • • • • • • • • • •
· ·	ed voltage 250 V, contamination degi
2.5 KV	2.5 KV
-40 to +70°C	-40 to +70°C
red LED	yes red LED
yes	yes
no	no
241/ AC	2201/ AC
24V AC 0.76VA	230V AC 0.74VA
50/60 Hz	50/60 Hz
2 CO contact	2 CO contact
240 V AC/400 V AC 8 A, 240 V AC	240 V AC/400 V AC 8 A, 240 V AC
15 A /300 A	15 A /300 A
2000 VA	2000 VA
12V at 10mA	12V at 10mA
30mV at 100mA/6VDC 360 Cycles per hour	30mV at 100mA/6VDC 360 Cycles per hour
36000 Cycles per hour	36000 Cycles per hour
10 ms/5 ms	10 ms/5 ms
AgNi 90/10	AgNi 90/10
50 x 10 ³	50 x 10 ³
5 x 10 ⁶	5 x 10 ⁶
PRS 2 G	PRS 2 G
15320.2 / 1	15320.2 / 1
TS 35	TS 35
5mm pinning	5mm pinning
Screw connection	Screw connection
10A	10A
300 V	300 V
4000 Veff	4000 Veff
C/250 V	C/250 V
-25 +80°C	-25 +80°C
IP 20 V-0	IP 20 V-0
VBG 4	VBG 4
2 x 2.5 mm ²	2 x 2.5 mm ²
2 x 1.5 mm ²	2 x 1.5 mm ²
max. 0.8 Nm 7 mm	max. 0.8 Nm 7 mm
UL/CSA	UL/CSA
PRSXT C1/2	DDSYT C1/2
16016.2 / 20	PRSXT C1/2 16016.2 / 20
10010:2 / 20	10010:2 / 20

Relay with 1 CO PRS 1

Complete screw-connection components PRSU 1/12 V DC

consisting of:

- · Relay
- Insert module
- · Socket base
- · Holding clamp

Type Cat. no./Qty.

Size (L x W x H) with TS 35 x 7.5



PRSU 1/12 V DC **15163.2**/1

76 x 15.7 x 71 mm 55 g

PRSU 1/24 V DC



PRSU 1/24 V DC 15169.2/1

76 x 15.7 x 71 mm 55 g

PRSU 1/60 V DC



PRSU 1/60 V DC **15720.2**/1

76 x 15.7 x 71 mm 55 q

PRSU 1/110 V DC



PRSU 1/110 V DC **15721.2**/1

76 x 15.7 x 71 mm 55 q

Individual components

Relay 1 W, encapsulated design

Type Cat. no./Qty.

Weight

General information DIN-VDE specifications Test voltage coil/contact

Operating temperature

Important Notes **Input data**

Input voltage Rated power consumption

Output data

Contacts

Switching voltage/Max. switching voltage Max continuous current/inrush current Typical response time/release time Contact material Electrical service life

at contact load Mechanical life span

PRS 1/12 V DC **6996.0**/1

15 g

6804.0/1 15 g

5 kV 5 kV 3.5mm

-40 to +85°C 12 V DC

0.40 W 1 CO contact

250 V AC/440 V AC 12 A/25 A 7 ms/3 ms AqNi 90/10 1.2 x 10 4 A, 250 V AC

 $> 30 \times 10^6$

PRS 1/24 V DC

Insulation IEC 664/VDE 0110, rated voltage 250 V, I

-40 to +85°C 24 V DC

1 CO contact 250 V AC/440 V AC 12 A/25 A

AqNi 90/10 1.2 x 10 4 A, 250 V AC $> 30 \times 10^6$

PRS 1/60 V DC **15539.2**/1

15 g

e 3, overvoltage category III, flammability class UL 94 V-0 5 kV 3.5mm

-40 to +85°C

60 V DC 0.40 W 0.42 W

1 CO contact 250 V AC/440 V AC 12 A/25 A 7 ms/3 ms 7 ms/3 ms AqNi 90/10 1.2 x 10³ 4 A, 250 V AC $> 30 \times 10^6$

PRS 1/110 V DC 15540.2/1

15 g

5 kV 3.5mm -40 to +85°C

110 V DC 0.42 W

 $> 30 \times 10^6$

1 CO contact 250 V AC/440 V AC 12 A/25 A 7 ms/3 ms AqNi 90/10 1.2 x 10³ 4 A, 250 V AC

Insert module

Type Cat. no./Qty.

protected against polarity reversal in parallel to coil

PRS LED 24 V DC **15141.2**/1

Status display with free-wh 12 to 24 V DC

PRS LED 24 V DC **15141.2**/1

Status display with free-wheel diode 12 to 24 V DC

PRS LED 110 V DC **15422.2**/1

Status display with free-wheel diode 60 to 110 V DC

PRS LED 110 V DC 15422.2/1

Status display with free-wheel dioc 60 to 110 V DC

Socket base

Type Cat. no./Qty. General

Mounting foot for DIN rails Plug-in modules for

Connection type

Technical data Rated current

Rated voltage Dielectric strength Insulation group (VDE 0110 b) Ambient temperature

Protection degree, enclosure Flammability class UL 94 Touch protection, acc. to Connection cross-section

With ferrules Screw torque **Approvals**

PRS 1 **15135.2**/1

3.5 mm pinning Screw connection

12 A 300 V 4000 Veff C/250 V

-25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm UL/CSA

PRS 1 **15135.2**/1

3.5 mm pinning Screw connection

12 A 300 V 4000 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm

PRS 1 **15135.2**/1

3.5 mm pinning Screw connection

12 A 300 V 4000 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm

PRS 1 **15135.2**/1

3.5 mm pinning Screw connection

12 A 300 V 4000 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm UL/CSA

Holding clamp

Type Cat. no./Qty.

PRS C 1/2 **15138.2**/1

PRS C 1/2 **15138.2**/1

UL/CSA

PRS C 1/2 **15138.2**/1

UL/CSA

PRS C 1/2 **15138.2**/1

PRSU 1 L/24 V DC **PRSU 1/24 V AC** PRSU 1/115 V AC PRSU 1/230 V AC PRSU 1 L/24 V DC PRSU 1/24 V AC PRSU 1/115 V AC PRSU 1/230 V AC **15170.2**/1 **15419.2**/1 **15164.2**/1 **15418.2**/1 76 x 15.7 x 71 mm 55 g 55 g 60 g 55 g PRS 1 L/24 V DC PRS 1/24 V AC PRS 1/115 V AC PRS 1/230 V AC **6480.2**/1 **6940.0**/1 **6481.2**/1 **15228.2**/1 15 g 15 g 15 g 15 g Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 5 kV 4 kV 5 kV 5 kV 5 mm 3.5 mm 3.5 mm 3.5 mm -20 to +50°C -40 to +70°C -40 to +70°C -40 to +70°C Inductive loads 24 V DC 24 V AC 115 V AC 230 V AC 0.50 W 0.75 VA 0.75 VA 0.75 VA 1 CO contact 1 CO contact 1 CO contact 1 CO contact 250 V AC 250 V AC/440 V AC 250 V AC/440 V AC 250 V AC/440 V AC 16 A/80 A (20 ms) 12 A/25 A 12 A/25 A 12 A/25 A 10 ms / 10 ms $7 \, \text{ms} / 3 \, \text{ms}$ 7 ms/3 ms 7 ms/3 msAg Sn 02 AqNi 90/10 AqNi 90/10 AqNi 90/10 1 x 10⁵ 1.2 x 10 1.2 x 10³ 1.2×10^{3} 16 A, 250 V AC 4 A, 250 V AC 4 A, 250 V AC 4 A, 250 V AC $> 30 \times 10^6$ $> 30 \times 10^6$ $> 30 \times 10^6$ $> 30 \times 10^6$ PRS LED 24 V DC PRS LED 24 V UC PRS LED 230 V AC PRS LED 230 V AC **15142.2**/1 **15142.2**/1 **15141.2**/1 **15175.2**/1 Status display with free-wheel dioc 12 to 24 V DC 12 to 48 V AC/DC 110 to 230 V/AC 110 to 230 V/AC PRS 2 PRS 1 PRS 1 PRS 1 **15136.2**/1 **15135.2**/1 **15135.2**/1 **15135.2**/1 TS 35 5 mm pinning 3.5 mm pinning 3.5 mm pinning 3.5 mm pinning Screw connection Screw connection Screw connection Screw connection 10 A 12 A 12 A 12 A 300 V 300 V 300 V 300 V 4000 Veff 4000 Veff 4000 Veff 4000 Veff C/250 V C/250 V C/250 V C/250 V -25 to +80°C -25 to +80°C -25 to +80°C -25 to +80°C IP 20 IP 20 IP 20 IP 20 V-0 V-0 V-0 V-0 VBG 4 VBG 4 VBG 4 VBG 4 2 x 2.5 mm² 2 x 2.5 mm² 2 x 2.5 mm² 2 x 2.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² max. 0.8 Nm max. 0.8 Nm max. 0.8 Nm max. 0.8 Nm UL/CSA UL/CSA UL/CSA UL/CSA PRS C 1/2 PRS C 1/2 PRS C 1/2 PRS C 1/2 **15138.2**/1 **15138.2**/1 **15138.2**/1 **15138.2**/1

Relay with 2 CO PRS 2

Complete screw-connection components

consisting of:

- · Relay
- Insert module
- · Socket base
- · Holding clamp

Type Cat. no./Qty.

Size (L x W x H) with TS 35×7.5

PRSU 2/12 V DC

PRSU 2/12 V DC 15165.2/1

76 x 15.7 x 71 mm 60 g



PRSU 2/24 V DC **15171.2**/1

76 x 15.7 x 71 mm 60 g



PRSU 2/48 V DC **15411.2**/1

76 x 15.7 x 71 mm 60 g



PRSU 2/60 V DC 15412.2/1

76 x 15.7 x 71 mm 60 g

Individual components

Relay 2 W, encapsulated design

Type Cat. no./Qty. Weight **General information DIN-VDE** specifications Test voltage coil/contact Operating temperature Input data Input voltage Rated power consumption **Output data** Contacts Switching voltage/Max. switching voltage Max continuous current/inrush current Typical response time/release time Contact material Electrical service life

PRS 2/12 V DC **6482.2**/1

-40 to +70°C

2 CO contact

8 A/15 A

7 ms/2 ms

AaNi 90/10

4 A, 230 V AC

1.5 x 10⁵

> 30 x 10⁶

250 V AC/440 V AC

12 V DC

0.40 W

15 g

PRS 2/24 V DC **6483.2**/1

PRS 2/48 V DC **15334.2**/1

15 g

PRS 2/60 V DC **15335.2**/1

vervoltage category III, flammability class UL 94 V-0

60 V DC

at contact load Mechanical life span

5 kV

15 g

Insulation IEC 664/VDE 0110, rated voltage 250 V, 5 kV

-40 to +70°C

24 V DC 0.40 W

> 30 x 10⁶

2 CO contact 250 V AC/440 V AC 8 A/15 A 7 ms/2 ms AqNi 90/10 1.5 x 10⁵ 4 A, 230 V AC

5 kV -40 to +70°C

48 V DC 0.40 W

2 CO contact 250 V AC/440 V AC 12 A/25 A 7 ms/2 ms AqNi 90/10 1.5 x 10⁵ 4 A, 230 V AC

> 30 x 10⁶

15 g

5 kV 5 mm -40 to +70°C

0.40 W 2 CO contact 250 V AC/440 V AC 8 A/15 A 7 ms/2 ms AgNi 90/10

1.5 x 10⁵ 4 A, 230 V AC > 30 x 10⁶

Insert module

Type Cat. no./Qty.

protected against polarity reversal

in parallel to coil

PRS LED 24 V DC **15141.2**/1

12 to 24 V DC

PRS LED 24 V DC **15141.2**/1

Status display with free-12 to 24 V DC

PRS LED 24 V UC **15175.2**/1

12 to 48 V AC/DC

PRS LED 110 V DC **15422.2**/1

Status display with free-wheel diode 60 to 110 V DC

Socket base

Туре
Cat. no./Qty.
General
Mounting foot for DIN rails
Plug-in modules for
Connection type
Technical data
Rated current
Rated voltage
Dielectric strength
Insulation group (VDE 0110 b)
Ambient temperature
Protection degree, enclosure
Flammability class UL 94
Touch protection, acc. to
Connection cross-section
With ferrules
Screw torque

PRS 2 **15136.2**/1

10 A

TS 35 5 mm pinning Screw connection

300 V 4000 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm UL/CSA

PRS 2 **15136.2**/1

TS 35 5 mm pinning Screw connection

10 A 300 V 4000 Veff C/250 V -25 to +80°C IP 20 V-0

VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm UL/CSA

PRS 2 **15136.2**/1

TS 35 5 mm pinning Screw connection

10 A 300 V 4000 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm UL/CSA

PRS 2 **15136.2**/1

TS 35 5 mm pinning Screw connection

10 A 300 V 4000 Veff C / 250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm UL/CSA

Holding clamp

Type Cat. no./Qty

Approvals

PRS C 1/2 **15138.2**/1

PRS C 1/2 **15138.2**/1

PRS C 1/2 **15138.2**/1

PRS C 1/2 **15138.2**/1

PRSU 2/110 V DC PRSU 2/24 V AC PRSU 2/115 V AC PRSU 2/230 V AC PRSU 2/24 V AC PRSU 2/230 V AC PRSU 2/110 V DC PRSU 2/115 V AC **15172.2**/1 **15722.2**/1 **15166.2**/1 **15413.2**/1 76 x 15.7 x 71 mm 60 g 60 g 60 g 60 g PRS 2/110 V DC PRS 2/24 V AC PRS 2/230 V AC PRS 2/115 V AC **15541.2**/1 **6484.2** /1 **15229.2**/1 **6485.2**/1 15 g 15 g 15 g 15 g Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-C 5 kV 5 kV 5 kV 5 kV 5 mm -40 to +70°C -40 to +70°C -40 to +70°C -40 to +70°C 110 V DC 24 V AC 115 V AC 230 V AC 0.40 W 0.75 VA 0.75 VA 0.75 VA 2 CO contact 2 CO contact 2 CO contact 2 CO contact 250 V AC/440 V AC 8 A/15 A 8 A/15 A 8 A/15 A 8 A/15 A 7 ms/2 ms 7 ms/2 ms 7 ms/2 ms 7 ms/2 ms AgNi 90/10 AqNi 90/10 AqNi 90/10 AqNi 90/10 1.5 x 10⁵ 1.5 x 10⁵ 1.5 x 10⁵ 1.5 x 10⁵ 4 A, 230 V AC > 30 x 10⁶ > 5 x 10⁶ > 5 x 10⁶ > 5 x 10⁶ PRS LED 110 V DC PRS LED 24 V UC PRS LED 230 V AC PRS LED 230 V AC **15422.2** /1 **15175.2**/1 **15142.2**/1 **15142.2**/1 Status display with free-wheel dic Status display 110 to 230 V AC/DC 60 to 110 V DC 12 to 48 V AC/DC 110 to 230 V AC/DC PRS 2 PRS 2 PRS 2 PRS 2 **15136.2**/1 **15136.2**/1 **15136.2**/1 **15136.2**/1 TS 35 **TS 35** TS 35 TS 35 5 mm pinning 5 mm pinning 5 mm pinning 5 mm pinning Screw connection Screw connection Screw connection Screw connection 10 A 10 A 10 A 10 A 300 V 300 V 300 V 300 V 4000 Veff 4000 Veff 4000 Veff 4000 Veff C/250 V C/250 V C/250 V C/250 V -25 to +80°C -25 to +80°C -25 to +80°C -25 to +80°C IP 20 IP 20 IP 20 IP 20 V-0 V-0 V-0 V-0 VBG 4 VBG 4 VBG 4 VBG 4 2 x 2.5 mm² 2 x 2.5 mm² 2 x 2.5 mm² 2 x 2.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² max. 0.8 Nm max. 0.8 Nm max. 0.8 Nm max. 0.8 Nm UL/CSA UL/CSA UL/CSA UL/CSA PRS C 1/2 PRS C 1/2 PRS C 1/2 PRS C 1/2

15138.2/1

15138.2/1

15138.2/1

15138.2/1

Relay 2 CO contact, PRS 2 G

Complete screw-connection components PRSU 2 G/12 V DC PRSU 2 G/24 V DC PRSU 2 G/48 V DC PRSU 2 G/60 V DC

consisting of:

- · Relay
- Insert module
- · Socket base
- · Holding clamp

Type Cat. no./Qty.

Size (L x W x H) with TS 35



PRSU 2 G/12 V DC **15414.2**/1

76 x 15.7 x 71 mm 60 g



PRSU 2 G/24 V DC **15233.2**/1

76 x 15.7 x 71 mm 60 g



PRSU 2 G/48 V DC **15415.2**/1

76 x 15.7 x 71 mm 60 g

PRSU 2 G/60 V DC 15416.2/1

76 x 15.7 x 71 mm 60 g

Individual components

Relay 2 W, encapsulated design

Type Cat. no./Qty. Weight **General information DIN-VDE** specifications Test voltage coil/contact Operating temperature Input data

Input voltage

Rated power consumption

Output data Contacts Switching voltage/Max. switching voltage Max continuous current/inrush current Typical response time/release time Contact material Electrical service life at contact load

Mechanical life span

PRS 2/12 V DC 6482.2/1

15 g

5 kV

-40 to +70°C

2 CO contact

250 V AC/440 V AC

12 V DC

0.40 W

8 A/15 A

1.5 x 10⁵

7 ms/2 ms

AgNi 90/10

4 A, 230 V AC

> 30 x 10⁶

PRS 2/24 V DC **6483.2**/1 15 g

Insulation IEC 664/VDE 0110, rated voltage 250 V, 5 kV

-40 to +70°C

24 V DC 0.40 W

2 CO contact 250 V AC/440 V AC 8 A/15 A 7 ms/2 ms AgNi 90/10 1.5 x 10⁵ 4 A, 230 V AC > 30 x 10⁶

PRS 2/48 V DC **15334.2**/1

15 g

class UL 94 V-0 5 kV

-40 to +70°C 48 V DC

0.40 W 2 CO contact 250 V AC/440 V AC 8 A/15 A $7 \, \text{ms} / 2 \, \text{ms}$ AgNi 90/10 1.5 x 10⁵ 4 A, 230 V AC

> 30 x 10⁶

PRS 2/60 V DC **15335.2**/1 15 g

5 kV 5 mm -40 to +70°C

60 V DC

0.40 W 2 CO contact 250 V AC/440 V AC 8 A/15 A 7 ms/2 ms AgNi 90/10 1.5 x 10⁵ 4 A, 230 V AC > 30 x 10⁶

Insert module

Type Cat. no./Qty.

protected against polarity reversal

in parallel to coil

PRS LED 24 V DC **15141.2**/1

Status display with free-wh 12 to 24 V DC

PRS LED 24 V DC **15141.2**/1

Status display with free-12 to 24 V DC

PRS LED 24 V UC **15175.2**/1

12 to 48 V AC/DC

PRS LED 110 V DC 15422.2/1

Status display with free-wheel diode 60 to 110 V DC

Socket base

Type Cat. no./Qty.
General
Mounting foot for DIN rails
Plug-in modules for
Connection type
Technical data
Rated current
Rated voltage
Dielectric strength
Insulation group (VDE 0110 b)
Ambient temperature
Protection degree, enclosure
Flammability class UL 94
Touch protection, acc. to
Connection cross-section
With ferrules
Screw torque
Approvals

PRS 2 G **15320.2**/1

TS 35 5 mm pinning Screw connection

10 A 300 V 4000 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm UL/CSA

PRS 2 G **15320.2**/1

TS 35 5 mm pinning Screw connection 10 A

4000 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm

300 V

PRS 2 G **15320.2**/1

TS 35 5 mm pinning Screw connection 10 A

300 V 4000 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm UL/CSA

PRS 2 G **15320.2**/1

5 mm pinning

TS 35

Screw connection 10 A 300 V 4000 Veff C / 250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm²

Holding clamp

Type Cat. no./Qty

PRS C 1/2 **15138.2**/1

PRS C 1/2 **15138.2**/1

UL/CSA

PRS C 1/2 **15138.2**/1

PRS C 1/2 **15138.2**/1

max. 0.8 Nm

UL/CSA

PRSU 2 G/115 V AC PRSU 2 G/230 V AC PRSU 2 G/110 V DC PRSU 2 G/24 V AC **15236.2**/1 **15723.2**/1 **15385.2**/1 **15417.2**/1 76 x 15.7 x 71 mm 60 g 60 g 60 g 60 g PRS 2/110 V DC PRS 2/24 V AC PRS 2/230 V AC PRS 2/115 V AC **15541.2**/1 **6484.2**/1 **15229.2**/1 **6485.2**/1 15 g 15 g 15 g 15 g Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution de vervoltage category III, flammability class UL 94 V-0 5 kV 5 kV 5 kV 5 kV 5 mm -40 to +70°C -40 to +70°C -40 to +70°C -40 to +70°C 110 V DC 24 V DC 115 V DC 230 V AC 0.40 W 0.75 VA 0.75 VA 0.75 VA 2 CO contact 2 CO contact 2 CO contact 2 CO contact 250 V AC/440 V AC 8 A/15 A 8 A/15 A 8 A/15 A 8 A/15 A 7 ms/2 ms 7 ms/2 ms 7 ms/2 ms 7 ms/2 ms AqNi 90/10 AqNi 90/10 AqNi 90/10 AqNi 90/10 1.5 x 10⁵ 1.5 x 10⁵ 1.5 x 10⁵ 1.5 x 10⁵ 4 A, 230 V AC > 30 x 10⁶ > 5 x 10⁶ > 5 x 10⁶ > 5 x 10⁶ PRS LED 110 V DC PRS LED 24 V UC PRS LED 230 V AC PRS LED 230 V AC **15422.2**/1 **15175.2**/1 **15142.2**/1 **15142.2**/1 Status display with free-wheel diod Status display Status display Status display 110 to 230 V AC 60 to 110 V DC 12 to 48 V AC/DC 110 to 230 V AC PRS 2 G PRS 2 G PRS 2 G PRS 2 G **15320.2**/1 **15320.2**/1 **15320.2**/1 **15320.2**/1 TS 35 **TS 35** TS 35 TS 35 5 mm pinning 5 mm pinning 5 mm pinning 5 mm pinning Screw connection Screw connection Screw connection Screw connection 10 A 10 A 10 A 10 A 300 V 300 V 300 V 300 V 4000 Veff 4000 Veff 4000 Veff 4000 Veff C/250 V C/250 V C/250 V C/250 V -25 to +80°C -25 to +80°C -25 to +80°C -25 to +80°C IP 20 IP 20 IP 20 IP 20 V-0 V-0 V-0 V-0 VBG 4 VBG 4 VBG 4 VBG 4 2 x 2.5 mm² 2 x 2.5 mm² 2 x 2.5 mm² 2 x 2.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² 2 x 1.5 mm² max. 0.8 Nm max. 0.8 Nm max. 0.8 Nm max. 0.8 Nm UL/CSA UL/CSA UL/CSA UL/CSA PRS C 1/2 PRS C 1/2 PRS C 1/2 PRS C 1/2 **15138.2**/1 **15138.2**/1 **15138.2**/1 **15138.2**/1

Relay with 4 CO PRS 4

Complete screw-connection components

consisting of:

- · Relay
- Insert module
- · Socket base
- · Holding clamp

Type Cat. no./Qty.

Size (L x W x H) with TS 35 x 7.5

PRSU 4/12 V DC



PRSU 4/12 V DC **15167.2**/1

76 x 27.1 x 85 mm 95 q

PRSU 4/24 V DC



PRSU 4/24 V DC **15173.2**/1

76 x 27.1 x 85 mm 95 q

PRSU 4/48 V DC



PRSU 4/48 V DC **15724.2**/1

76 x 27.1 x 85 mm 95 g

PRSU 4/60 V DC

PRSU 4/60 V DC **15725.2**/1

76 x 27.1 x 85 mm 95 q

Individual components

Relay 4 W, open design, with switch

туре
Cat. no./Qty.
Weight
General information
DIN-VDE specifications
Test voltage coil/contact
Operating temperature
Input data
Input voltage
Rated power consumption
Output data
Contacts
Switching voltage/Max. switching voltage
Max continuous current/inrush current
Typical response time/release time
Contact material
Electrical service life
at contact load

PRS 4/12 V DC **6486.2**/1 30 g

Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III 2.5 kV -40 to +70°C

12 V DC 0.75 W 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10⁵ 6 A, 250 V AC $> 30 \times 10^{6}$

PRS 4/24 V DC **6487.2**/1 30 g

2.5 kV -40 to +70°C 24 V DC 0.75 W 4 CO contact

250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10⁵ 6 A, 250 V AC $> 30 \times 10^6$

PRS 4/48 V DC **15461.2**/1

30 g

2.5 kV -40 to +70°C 48 V DC 0.75 W

4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 $1.5 \times 10^{\circ}$ 6 A, 250 V AC $> 30 \times 10^6$

PRS 4/60 V DC **15336.2**/1 30 g

2.5 kV -40 to +70°C

60 V DC 0.75 W 4 CO contact 250 V AC / 250 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10⁵ 6 A, 250 V AC

 $> 30 \times 10^6$

Insert module

Mechanical life span

Type Cat. no./Qty. protected against polarity reversal in parallel to coil

PRS LED 24 V DC **15141.2**/1

Status display with free-who 12 to 24 V DC

PRS LED 24 V DC **15141.2**/1

12 to 24 V DC

PRS LED 24 V UC **15175.2**/1

12 to 48 V AC/DC

PRS LED 110 V DC **15422.2**/1

Status display with free-wheel dio 60 to 110 V DC

Socket base

Type	PRS 4	PRS 4	PRS 4	PRS 4
Cat. no./Qty.	15137.2 /1	15137.2 /1	15137.2 /1	15137.2 /1
General				
Mounting foot for DIN rails	TS 35	TS 35	TS 35	TS 35
Plug-in modules for	2.8mm fast-on	2.8 mm fast-on	2.8 mm fast-on	2.8 mm fast-on
Connection type	Screw connection	Screw connection	Screw connection	Screw connection
Technical data				
Rated current	10 A	10 A	10 A	10 A
Rated voltage	300 V	300 V	300 V	300 V
Dielectric strength	2400 Veff	2400 Veff	2400 Veff	2400 Veff
Insulation group (VDE 0110 b)	C/250 V	C/250 V	C/250 V	C/250 V
Ambient temperature	-25 to +80°C	-25 to +80°C	-25 to +80°C	-25 to +80°C
Protection degree, enclosure	IP 20	IP 20	IP 20	IP 20
Flammability class UL 94	V-0	V-0	V-0	V-0
Touch protection, acc. to	VBG 4	VBG 4	VBG 4	VBG 4
Connection cross-section	2 x 2.5 mm ²			
With ferrules	2 x 1.5 mm ²			
Screw torque	max. 0.8 Nm	max. 0.8 Nm	max. 0.8 Nm	max. 0.8 Nm
Approvals	UL/CSA	UL/CSA	UL/CSA	UL/CSA

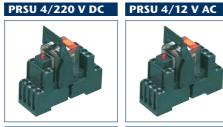
Holding clamp

Type Cat. no./Qty PRS C 4 PRS C 4 PRS C 4 PRS C 4 **15140.2**/1 **15140.2**/1 **15140.2**/1 **15140.2**/1

PRSU 4/110 V DC

PRSU 4/110 V DC **15726.2**/1 76 x 27.1 x 85 mm

95 g



PRSU 4/220 V DC **15727.2**/1 76 x 27.1 x 85 mm 95 g

PRSU 4/12 V AC



15392.2/1 76 x 27.1 x 85 mm 95 g



PRSU 4/24 V AC

PRSU 4/24 V AC **15168.2**/1 76 x 27.1 x 85 mm

95 g



PRSU 4/115 V AC **15728.2**/1

76 x 27.1 x 85 mm 95 g



PRSU 4/230 V AC **15174.2**/1 76 x 27.1 x 85 mm

95 g

PRS 4/110 V DC 15542.2/1	PRS 4/220 V DC 15368.2/1	PRS 4/12 V AC 15393.2/1	PRS 4/24 V AC 6488.2/1	PRS 4/115 V AC 15257.2/1	PRS 4/230 V AC 6489.2/1
30 g	30 g	30 g	30 g	30 g	30 g
Insulation IEC 664/VDE 0110, ra	ited voltage 250 V, pollution degree	3, overvoltage category III			
2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV
-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C
110 V DC	220 V DC	12 V AC	24 V AC	115 V AC	230 V AC
0.75 W	0.75 W	1.0 VA	1.0 VA	1.0 VA	1.0 VA
4 CO contact	4 CO contact	4 CO contact	4 CO contact	4 CO contact	4 CO contact
250 V / 250 V AC	250 V/250 V AC	250 V / 250 V AC	250 V/250 V AC	250 V AC/250 V AC	250 V AC/250 V AC
6 A/12 A	6 A/12 A	6 A/12 A	6 A/12 A	6 A/12 A	6 A/12 A
15 ms / 10 ms	15 ms / 10 ms	15 ms/10 ms	15 ms/10 ms	15 ms/10 ms	15 ms/10 ms
AgNi 90/10	AgNi 90/10	AgNi 90/10	AgNi 90/10	AgNi 90/10	AgNi 90/10
1.5 x 10 ⁵	1.5 x 10 ⁵	1.5 x 10 ⁵	1.5 x 10 ⁵	1.5 x 10 ⁵	1.5 x 10 ⁵
6 A, 250 V A	6 A, 250 V AC	6 A, 250 V AC	6 A, 250 V AC	6 A, 250 V AC	6 A, 250 V AC
> 30 x 10 ⁶	> 30 x 10 ⁶	> 20 x 10 ⁶	> 20 x 10 ⁶	> 20 x 10 ⁶	> 20 x 10 ⁶

PRS LED 110 V DC	
15422.2 /1	

Status display with free-wheel diode 60 to 110 V DC

PRS LED 230 V AC **15142.2**/1

Status display 110 to 230 V DC

PRS LED 24 V UC **15175.2**/1

Status display 12 to 48 V AC/DC

PRS LED 24 V UC **15175.2**/1

Status display 12 to 48 V AC/DC PRS LED 230 V AC **15142.2**/1

Status display 110 to 230 V AC/DC

PRS LED 230 V AC **15142.2**/1

Status display 110 to 230 V AC

| PRS 4
15137.2/1 |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | · | | · |
| TS 35 |
| 2.8 mm fast-on | 2.8 mm fast-on | 2.8mm fast-on | 2.8mm fast-on | 2.8mm fast-on | 2.8mm fast-on |
| Screw connection |
| | | | | | |
| 10 A |
| 300 V |
| 2400 Veff |
| C/250 V |
| -25 to +80°C |
| IP 20 |
| V-0 | V-0 | V-0 | V-0 | V-0 | V-0 |
| VBG 4 |
| 2 x 2.5 mm ² |
| 2 x 1.5 mm ² |
| max. 0.8 Nm |
| UL/CSA | UL/CSA | UL/CSA | UL/CSA | UL/CSA | UL/CSA |

PRS C 4 **15140.2**/1

PRS C 4 **15140.2**/1 PRS C 4 **15140.2**/1 PRS C 4 **15140.2**/1 PRS C 4 **15140.2**/1 PRS C 4 **15140.2**/1

Relay 4 CO contact, PRS 4 G

Complete screw-connection components PRSU 4 G/12 V DC PRSU 4 G/24 V DC PRSU 4 G/48 V DC PRSU 4 G/60 V DC

consisting of:

- · Relay
- Insert module
- · Socket base
- · Holding clamp

Type Cat. no./Qty.

Size (L x W x H) with TS 35 x 7.5



PRSU 4 G/12 V DC **15421.2**/1

76 x 27.1 x 87 mm 95 q



PRSU 4 G/24 V DC **15332.2**/1

76 x 27.1 x 87 mm 95 q

PRS 4/24 V DC

6487.2/1

PRSU 4 G/48 V DC **15729.2**/1

76 x 27.1 x 87 mm 95 q



PRSU 4 G/60 V DC **15730.2**/1

76 x 27.1 x 87 mm 95 q

Individual components

Relay 4 W, open design, with switch

Cat. no./Qty.
Weight
General information
DIN-VDE specifications
Test voltage coil/contact
Operating temperature
Input data
Input voltage
Rated power consumption
Output data
Contacts
Switching voltage/Max. switching voltage
Max continuous current/inrush current
Typical response time/release time
Contact material

PRS 4/12 V DC **6486.2**/1 30 g

-40 to +70°C

4 CO contact

15 ms/10 ms

AqNi 90/10

6 A, 250 V AC

6 A/12 A

1.5 x 10⁵

 $> 30 \times 10^6$

250 V AC/250 V AC

12 V DC

0.75 W

30 g Insulation IEC 664/VDE 0110, rated voltage 250 V, p 2.5 kV

ollution degree 3, overvoltage category III 2.5 kV -40 to +70°C 24 V DC 0.75 W 4 CO contact

250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AqNi 90/10 1.5 x 10⁵ 6 A, 250 V AC $> 30 \times 10^6$

PRS 4/48 V DC **15461.2**/1

30 g

2.5 kV -40 to +70°C 48 V DC 0.75 W 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms

AqNi 90/10 $1.5 \times 10^{\circ}$ 6 A, 250 V AC 6 A, 250 V AC $> 30 \times 10^6$ $> 30 \times 10^6$

PRS 4/60 V DC **15336.2**/1 30 g

2.5 kV -40 to +70°C

60 V DC 0.75 W 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AqNi 90/10 1.5 x 105

Insert module

at contact load Mechanical life span

Electrical service life

Type Cat. no./Qty. protected against polarity reversal in parallel to coil

PRS LED 24 V DC **15141.2**/1

Status display with free-wh 12 to 24 V DC

PRS LED 24 V DC **15141.2**/1

12 to 24 V DC

PRS LED 24 V UC **15175.2**/1

12 to 48 V AC/DC

PRS LED 110 V DC **15422.2**/1

Status display with free-wheel dio 60 to 110 V DC

Socket base

Туре	PRS 4 G
Cat. no./Qty.	15324.2 /1
General	
Mounting foot for DIN rails	TS 35
Plug-in modules for	2.8mm fast-on
Connection type	Screw connection
Technical data	
Rated current	10 A
Rated voltage	300 V
Dielectric strength	2400 Veff
Insulation group (VDE 0110 b)	C/250 V
Ambient temperature	-25 to +80°C
Protection degree, enclosure	IP 20
Flammability class UL 94	V-0
Touch protection, acc. to	VBG 4
Connection cross-section	2 x 2.5 mm ²
With ferrules	2 x 1.5 mm ²
Screw torque	max. 0.8 Nm
Approvals	UL/CSA

PRS 4 G **15324.2**/1

TS 35 2.8mm fast-on Screw connection 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1 5 mm² max. 0.8 Nm UL/CSA

PRS 4 G **15324.2**/1

TS 35 2.8mm fast-on Screw connection 10 A 300 V 2400 Veff C/250 V -25 to +80°C

IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm UL/CSA

PRS 4 G **15324.2**/1

TS 35 2.8mm fast-on Screw connection

300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm UL/CSA

Holding clamp

PRS C 4 PRS C 4 PRS C 4 PRS C 4 Type **15140.2**/1 **15140.2**/1 **15140.2**/1 **15140.2**/1 Cat. no./Qty

PRSU 4 G/110 V DC | PRSU 4 G/220 V DC | PRSU 4 G/12 V AC | PRSU 4 G/24 V AC | PRSU 4 G/115 V AC | PRSU 4 G/230 V AC





PRSU 4 G/110 V DC **15731.2**/1

76 x 27.1 x 87 mm 95 g



PRSU 4 G/220 V DC **15732.2**/1

76 x 27.1 x 87 mm 95 q



PRSU 4 G/12 V AC **15420.2**/1

76 x 27.1 x 87 mm 95 q



PRSU 4 G/24 V AC **15371.2**/1

76 x 27.1 x 87 mm 95 q



PRSU 4 G/115 V AC **15733.2**/1

76 x 27.1 x 87 mm 95 q



PRSU 4 G/230 V AC **15372.2**/1

76 x 27.1 x 87 mm 95 q

PRS 4/110 V DC 15542.2/1 30 g

PRS 4/220 V DC **15368.2**/1 30 g

PRS 4/12 V AC 30 g

30 g

15257.2/1 30 g

2.5 kV -40 to +70°C

110 V DC

0.75 W 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AqNi 90/10

 $1.5 \times 10^{\circ}$ 6 A, 250 V AC $> 30 \times 10^6$

Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III 2.5 kV

-40 to +70°C 220 V DC

0.75 W 4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms

AqNi 90/10 $1.5 \times 10^{\circ}$ 6 A, 250 V AC $> 30 \times 10^6$

15393.2/1

2.5 kV -40 to +70°C

12 V AC 1.0 VA

4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AqNi 90/10

6 A, 250 V AC $> 20 \times 10^{\circ}$

1.5 x 10⁵

PRS 4/24 V AC **6488.2**/1

2.5 kV -40 to +70°C

24 V AC 1.0 VA

4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms

AqNi 90/10 1.5 x 10⁵ 6 A, 250 V AC $> 20 \times 10^6$

PRS 4/115 V AC

2.5 kV -40 to +70°C

115 V AC 1.0 VA

4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AqNi 90/10

 $1.5 \times 10^{\circ}$ 6 A, 250 V AC $> 20 \times 10^6$

PRS 4/230 V AC **6489.2**/1

30 g

2.5 kV -40 to +70°C

230 V AC

1.0 VA

4 CO contact 250 V AC/250 V AC 6 A/12 A 15 ms/10 ms AqNi 90/10 $1.5 \times 10^{\circ}$

6 A, 250 V AC $> 20 \times 10^6$

PRS LED 110 V DC **15422.2**/1

Status display with free-wheel diod 60 to 110 V DC

PRS LED 230 V AC **15142.2**/1

110 to 230 V AC

PRS LED 24 V UC **15175.2**/1

12 to 48 V AC/DC

PRS LED 24 V UC **15175.2**/1

12 to 48 V AC/DC

PRS LED 230 V AC **15142.2**/1

110 to 230 V AC

PRS LED 230 V AC **15142.2**/1

110 to 230 V AC

PRS 4 G
15324.2 /1

TS 35 2.8mm fast-on Screw connection

10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm²

PRS 4 G **15324.2**/1

TS 35 2.8mm fast-on Screw connection

10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm²

PRS 4 G **15324.2**/1

2.8mm fast-on Screw connection

300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm UL/CSA

PRS 4 G **15324.2**/1

TS 35 2.8mm fast-on Screw connection

300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² $2 \times 1.5 \text{ mm}^2$

PRS 4 G **15324.2**/1

TS 35 2.8mm fast-on Screw connection

10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² 2 x 1 5 mm² max. 0.8 Nm

PRS 4 G **15324.2**/1

TS 35 2.8mm fast-on

Screw connection 10 A 300 V 2400 Veff C/250 V -25 to +80°C IP 20 V-0 VRC 4 2 x 2.5 mm² 2 x 1.5 mm² max. 0.8 Nm

PRS C 4 **15140.2**/1

max. 0.8 Nm

UL/CSA

PRS C 4

max. 0.8 Nm

UL/CSA

PRS C 4

PRS C 4 15140.2/1

max. 0.8 Nm

UL/CSA

PRS C 4 **15140.2**/1

UL/CSA

PRS C 4 **15140.2**/1

UL/CSA

Relay 4 CO PRS 4 eco

Complete screw or tension-spring connection unit PRSU 4/24V DC eco consisting of:

- · Relay
- · Socket base





PRSU 4/24V DC eco **15619.2** / 1 76 x 27.1 x 68 mm 98a



15620.2 / 1 76 x 27.1 x 68 mm 98a



PRSU 4/230V AC eco **15621.2** / 1 76 x 27.1 x 68 mm 98a



PRSU 4G/24V DC eco **15622.2** / 1 78 x 27.1 x 70 mm 100g

Individual	com	pon	ents	5
		_		

Size (L x W x H) with TS 35×7.5

Relay 4W, open design, with switch and status display

Туре
Cat. no./Qty
Weight

Type Cat. no./Qty.

Weight

PRS 4/24V DC eco **15591.2** / 1 35q

PRS 4/24V AC eco **15592.2** / 1 35q

Rated voltage 250V, cont

2.5 KV

PRS 4/230V AC eco **15593.2** / 1 35q

tion degree 2,

PRS 4/24V DC eco **15591.2** / 1 35q

Common data	
DIN-VDE specifications	
Test voltage coil/contact	
Operating temperature	
Lockable test button	
Indicators	
Mechanical indicator	
Free-wheel diode	
Input data	
Input voltage	
Rated power consumption	า
Frequency	
Output specifications	
Contacts	
Max. Switching voltage A	C / DC
Min. switching voltage	
Max. continuous current	AC 1
	DC 1
Max inrush current	
Contact load	AC 1
Min. contact load	
Contact resistance	

Max. switching frequency at operating load

Max. switching frequency without load

Typical response time/release time

2.5 KV -25 °C to +70°C yes red LED yes yes 24 V DC 0.9 W 4 CO contact 250 V /250 V 5 V 6 A, 250 V AC 6 A / 24 V DC 12 A 1500VA 0.3W \leq 100 m Ω 1200 Cycles per hour 18000 Cycles per hour 13 ms / 3 ms AgNi $\geq 1 \times 10^{5}$ $\geq 2 \times 10^{7}$

AC 1

-25 to +55°C red LED yes no 24V AC 1.6 VA 50/60 Hz 4 CO contact 250 V /250 V 6 A, 250 V AC 6 A / 24 V DC 12 A 1500VA 0.3W \leq 100 m Ω 1200 Cycles per hour 18000 Cycles per hour 13 ms / 3 ms AgNi $\geq 1 \times 10^{5}$ $\geq 2 \times 10^{7}$

2.5 KV 2.5 KV -25 to +55°C -25 °C to +70°C red LED yes yes no yes 230V AC 1.6 VA 50/60 Hz 4 CO contact 250 V /250 V 5 V 6 A, 250 V AC 6 A / 24 V DC 12 A 12 A 1500VA 0.3W \leq 100 m Ω 1200 Cycles per hour 18000 Cycles per hour 13 ms / 3 ms AgNi $\geq 1 \times 10^{5}$ $\geq 2 \times 10^{7}$

red LED 24 V DC 0.9 W 4 CO contact 250 V /250 V 6 A, 250 V AC 6 A / 24 V DC 1500VA 0 3W \leq 100 m Ω 1200 Cycles per hour 18000 Cycles per hour 13 ms / 3 ms AgNi $\geq 1 \times 10^{5}$ $\geq 2 \times 10^{7}$

Soc	ket	base
300		Duse

Contact material

Electrical service life

Mechanical service life

Socket base				
Туре	PRS 4	PRS 4	PRS 4	PRS 4 G
Cat. no./Qty.	15137.2 / 1	15137.2 / 1	15137.2 / 1	15324.2 / 1
Overview				
Mounting foot for DIN rails	TS 35	TS 35	TS 35	TS 35
Plug-in base for	2.8mm fast-on	2.8mm fast-on	2.8mm fast-on	2.8mm fast-on
Connection type	Screw connection	Screw connection	Screw connection	Screw connection
Technical data				
Rated current	10 A	10 A	10 A	10 A
Rated voltage	300 V	300 V	300 V	300 V
Dielectric strength	2400 Veff	2400 Veff	2400 Veff	2400 Veff
Insulation group (VDE 0110b)	C/250 V	C/250 V	C/250 V	C/250 V
Ambient temperature	-25 °C to +80°C			
Protection degree, enclosure	IP 20	IP 20	IP 20	IP 20
Flammability class UL 94	V-0	V-0	V-0	V-0
Touch protection, acc. to	VBG 4	VBG 4	VBG 4	VBG 4
Connection cross-section	2 x 2.5 mm ²			
With ferrules	2 x 1.5 mm ²			
Screw torque	max. 0.8 Nm	max. 0.8 Nm	max. 0.8 Nm	max. 0.8 Nm
Stripping length	7 mm	7 mm	7 mm	7 mm
Approvals	UL/CSA	UL/CSA	UL/CSA	UL/CSA

Accessory: Holding clamp (optional)

PRS C4 eco PRS C4 eco PRS C4 eco PRS C4 eco Type Cat. no./Qty **15628.2** / 1 **15628.2** / 1 **15628.2** / 1 **15628.2** / 1



PRSU 4G/230V AC eco **15624.2** / 1 78 x 27.1 x 70 mm

100a

35a

0, Rated voltage

-25 to +55°C

2.5 KV



PRSU 4Z/24V DC eco **15625.2** / 1 98 x 31 x 69.2 mm 109a



PRSU 4Z/24V AC eco **15626.2** / 1 98 x 31 x 69.2 mm 109g



PRSU 4Z/230V AC eco **15627.2** / 1 98 x 31 x 69.2 mm 109a

PRS 4/24V AC eco **15592.2** / 1 35q

PRSU 4G/24V AC eco

15623.2 / 1

100a

78 x 27.1 x 70 mm

PRS 4/230V AC eco **15593.2** / 1

PRS 4/24V DC eco 15591.2 / 1 35a

ination degree

2.5 KV

PRS 4/24V AC eco **15592.2** / 1 35q

PRS 4/230V AC eco **15593.2** / 1 35q

2.5 KV -25 to +55°C yes red LED yes no 24V AC 1.6 VA 50/60 Hz 4 CO contact 250 V /250 V 5 V 6 A, 250 V AC 6 A / 24 V DC 12 A 1500VA 0.3W \leq 100 m Ω 1200 Cycles per hour 18000 Cycles per hour 13 ms / 3 ms AqNi $\geq 1 \times 10^{5}$ $\geq 2 \times 10^{7}$

red LED yes no 230V AC 1.6 VA 50/60 Hz 4 CO contact 250 V /250 V 6 A, 250 V AC 6 A / 24 V DC 12 A 1500VA 0.3W $\leq 100~m\Omega$ 1200 Cycles per hour 18000 Cycles per hour 13 ms / 3 ms AgNi $\geq 1 \times 10^{5}$ $\geq 2 \times 10^{7}$

-25 °C to +70°C red LED yes yes 12V DC 0.9 W 4 CO contact 250 V /250 V 5 V 6 A, 250 V AC 6 A / 24 V DC 12 A 1500VA 0.3W \leq 100 m Ω 1200 Cycles per hour 18000 Cycles per hour 13 ms / 3 ms **AqNi** $\geq 1 \times 10^{5}$ $\geq 2 \times 10^{7}$

2.5 KV -25 to +55°C red LED yes no 24V AC 1.6 VA 50/60 Hz 4 CO contact 250 V /250 V 6 A, 250 V AC 6 A / 24 V DC 12 A 1500VA 0.3W \leq 100 m Ω 1200 Cycles per hour 18000 Cycles per hour 13 ms / 3 ms AqNi $\geq 1 \times 10^{5}$ $\geq 2 \times 10^{7}$

2.5 KV -25 to +55°C yes red LED yes no 230V AC 1.6 VA 50/60 Hz 4 CO contact 250 V /250 V 5 V 6 A, 250 V AC 6 A / 24 V DC 12 A 1500VA 0.3W \leq 100 m Ω 1200 Cycles per hour 18000 Cycles per hour 13 ms / 3 ms AgNi $\geq 1 \times 10^{5}$ $\geq 2 \times 10^{7}$

PRS 4 G **15324.2** / 1

TS 35 2.8mm fast-on Screw connection 10 A 300 V 2400 Veff C/250 V -25 °C to +80°C

IP 20 V-0 VBG 4 2 x 2.5 mm² $2 \times 1.5 \text{ mm}^2$ max. 0.8 Nm 7 mm **UL/CSA**

PRS 4 G **15324.2** / 1

TS 35 2.8mm fast-on Screw connection 10 A 300 V 2400 Veff C/250 V -25 °C to +80°C IP 20 V-0 VBG 4 2 x 2.5 mm² $2 \times 1.5 \text{ mm}^2$ max. 0.8 Nm 7 mm **UL/CSA**

PRS 4 Z **15431.2** / 1

TS 35 2.8mm fast-on Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 °C to +70°0 IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm² 7 mm **UL/CSA**

PRS 4 Z **15431.2** / 1

TS 35

2.8mm fast-on Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 °C to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm² 7 mm **UL/CSA**

PRS 4 Z **15431.2** / 1

2.8mm fast-on

TS 35

Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 °C to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm² 7 mm **UL/CSA**

PRS C4 eco **15628.2** / 1 PRS C4 eco **15628.2** / 1 PRS C4 eco **15628.2** / 1

PRS C4 eco **15628.2** / 1 PRS C4 eco **15628.2** / 1

Plug relay system PRS

Tension-spring connection

The **PRS Z** relay bases extend the **PRS** plug-relay system with their wide-spread tension-spring connection mechanism. Each of the base's conductor connections is doubled in order to allow for a simple double potential pick-off (test point). The well-known advantages of the **PRS** relay system also apply to this base. The entire line of accessories with which you are already familiar are compatible and can be used with the bases. So you can make use of the same illuminated displays and holding clamps that are used with the screw connection mechanism. Dependable functioning is always certain because of the combination with the proven **PRS**-system relays.

1. Overview

Pluggable relays
Pluggable relays are also available with
AgSNO and gold contacts, to fit with the
many functions of your individual requirements!



Mounts on standard TS 35 rail CONTA-CLIP relay bases can be flexibly mounted on standard TS 35 mounting rails according to EN 50035 and EN 50022.



AQI/PRS external cross-connector

The AQI/PRS external cross-connection system enables a time-saving distribution of potentials. With this system, you can save time when coupling multiple relay components.

Using the mount/dismount lever
The mounting and dismounting mechanism forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever!





Pluggable LED and protective modules
Pluggable modules allow easy insertion
into the base, with reverse-connect protection.
The module circuitry is effective in parallel to
the coil of the deployed relay.



2. Features

I. Relay

- PLUG RELAY SYSTEM (relays with 1, 2, or 4 COs)
- · Load-independent switching
- Direct control via the PLC outputs
- High interference immunity
- · Electrical isolation of control and load circuits
- Minimal contact resistance, and high insulation resistance
- PRS XT relay features switch/button for HAND/AUTOMATIC switching and an integrated LED to show the status of the switch
- PRS 4 relay features switch/button for HAND/AUTOMATIC switching
- PRS 4 eco relay features switch/button for HAND/AUTOMATIC switching, and an integrated LED for signalling the switching status

Technical data for the available relays can be found on the following product pages.









Plug relay system PRS

Tension-spring connection

II. Socket base

- · Mount on TS 35
- Very flexible and modular construction of individual relay bases
- User-friendly, because the relays can be easily replaced
- · High-quality connection terminals
- · Doubled connections
- Pluggable LED display with additional protective circuitry
- · Holding clamp made of high-quality plastic

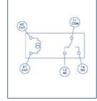
















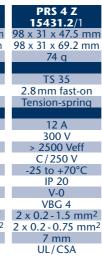




Туре
Cat. no./Qty.
Size (L x W x H) with TS 35
Size with holding clamp (L x W x H) with TS 35
Weight
General
Mounting foot for DIN rails
Plug-in modules for
Connection type
Technical data
Rated current
Rated voltage
Dielectric strength coil/contact
Insulation group (VDE 0110 b)
Ambient temperature
Protection degree, enclosure
Flammability class UL 94
Touch protection, acc. to
Connection cross-section
With ferrule
Insulation stripping length
Approvals







III. Insert modules

- · Plugs simply into the base, reverse-connect protection
- · Circuitry parallel to coil

Cat. no./Qty.	Туре	Voltage range	
15141.2 /1	PRS LED(RD) 24V DC	12 to 24 V DC	Status display with free-wheel diode
15142.2 /1	PRS LED(RD) 230V AC	110 to 230 V AC	Status display
15175.2 /1	PRS LED(RD) 24V UC	12 to 48 V AC/DC	Status display
15422.2 /1	PRS LED(RD)/110V DC	60 to 110 V DC	Status display with free-wheel diode
15810.2 /1	PRS LED(RD) 230V UC Var.	24 V AC/DC	Status display with varistor
16070.2 /1	PRS LED(GN) 24V UC Var.	230 V AC/DC	Status display with varistor
15808.2 /1	PRS RC 24V AC	24 V AC	Plug-in module with RC element
15809.2 /1	PRS RC 240V AC	240 V AC	Plug-in module with RC element



IV. Holding clamp

The mount/dismount clamp forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever.

Cat. no./Qty.	Туре	Weight	
15138.2 /1	PRS C 1/C 2	2 g	
15140.2 /1	PRS C 4	4 g	
15628.2 /1	PRS C 4 eco	4 g	
16016.2 /1	PRSXT C1/2	4 g	







Relay 1-CO PRS 1 XT

Complete tension-spring connection units PRSUXT 1Z/24V DC PRSUXT 1Z/24V AC consisting of:

- · Relay
- · Socket base
- · Holding clamp

Type Cat. no./Qty.



PRSUXT 1Z/24V DC **16092.2** / 1

98 x 16.3 x 69.2 mm 60a



PRSUXT 1Z/24V AC **16093.2** / 1

98 x 16.3 x 69.2 mm 60a



PRSUXT 1Z/230V AC **16094.2** / 1

98 x 16.3 x 69.2 mm 60a

Size (L x W x H) with TS 35 x 7.5

Individual components Relay 1W, open design, with switch and status display

Type
Cat. r
Dimen
Weigh

isions (L x W x H)

Common data

DIN-VDE specifications Test voltage coil/contact Operating temperature Lockable test button Indicators

Mechanical indicator Free-wheel diode Input data

Input voltage Rated power consumption

Frequency

Output specifications

Contacts

Switching voltage/Max. switching voltage Max. continuous current

Max. inrush current 4s / 30 ms

Max. contact load

Min. suggested contact load

Voltage drop

Max. switching frequency at operating load Max. switching frequency without load Typical response time/release time

Contact material Electrical service life Mechanical service life

PRSXT 1/24V DC **16083.2** / 1 29 x 13 x 30.55 mm

16q

yes

ves

PRSXT 1/24V AC **16084.2** / 1

29 x 13 x 30.55 mm

16q

<u>PRSXT</u> 1/230V AC **16085.2** / 1 29 x 13 x 30.55 mm

16q

no

Insulation IEC 664/VDE 0110, tage 250 V, coi 2.5 KV

-40 to +70°C -40 to +70°C red LED red LED yes

24 V DC

0.4W 1 CO contact

240 V AC/400 V AC 16 A / 240 V AC 30 A /300 A 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour

8 ms/6 ms AgNi 90/10 50 x 10³ 10 x 10⁶

2.5 KV no

24V AC 0.76VA 50/60 Hz

1 CO contact 240 V AC/400 V AC 16 A, 240 V AC 30 A /300 A 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 8 ms/6 ms AqNi 90/10 50 x 10³

2.5 KV -40 to +70°C

red LED yes

230V AC 0.74VA 50/60 Hz

1 CO contact 240 V AC/400 V AC 16 A, 240 V AC 30 A /300 A 4000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 8 ms/6 ms

Socket base

Type Cat. no./Qty. Overview

Mounting foot for DIN rails

Plug-in base for Connection type

Technical data Rated current

Rated voltage Dielectric strength Insulation group (VDE 0110b)

Ambient temperature Protection degree, enclosure Flammability class UL 94 Touch protection, acc. to Connection cross-section

With ferrules Stripping length **Approvals**

PRS 2 Z **15789.2** / 1

5mm pinning Tension-spring connection

10A 300 V > 2500 Veff C/250 V -25 °C to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm²

PRS 2 Z **15789.2** / 1

5 x 10⁶

5mm pinning Tension-spring connection

10A 300 V > 2500 Veff C/250 V -25 °C to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm² **UL/CSA**

PRS 2 Z **15789.2** / 1

AqNi 90/10

50 x 10³

5 x 10⁶

5mm pinning Tension-spring connection

10A 300 V > 2500 Veff C/250 V -25 °C to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm²

Holding clamp

Type Cat. no./Qty PRSXT C1/2 **16016.2** / 20

UL/CSA

PRSXT C1/2 **16016.2** / 20 PRSXT C1/2 **16016.2** / 20

UL/CSA

Relay 2-CO PRS 2 XT

Complete tension-spring connection units PRSUXT 2Z/24V DC PRSUXT 2Z/24V AC consisting of:

· Relay

Type Cat. no./Qty.

- · Socket base
- · Holding clamp



PRSUXT 2Z/24V DC **16023.2**/ 1

98 x 16.3 x 69.2 mm



PRSUXT 2Z/24V AC **16024.2**/ 1

98 x 16.3 x 69.2 mm 60a



PRSUXT 2Z/230V AC **16025.2**/ 1

98 x 16.3 x 69.2 mm 60a

Size (L x W x H) with TS 35 x 7.5

Individual components Relay 2W, open design, with switch and status display

Type Cat. no./Qty. Dimensions (L x W x H) Common data **DIN-VDE** specifications Test voltage coil/contact Operating temperature Lockable test button Indicators Mechanical indicator

Input data Input voltage Rated power consumption

Frequency Output specifications

Free-wheel diode

Contacts
Switching voltage/Max. switching voltage
Max. continuous current
Max. inrush current 4s / 30 ms
Max. contact load
Min. suggested contact load
Voltage drop
Max. switching frequency at operating load
Max. switching frequency without load
Typical response time/release time
Contact material
Electrical service life

PRSXT 2/24V DC **16013.2** / 1

29 x 13 x 30.55 mm 16q

Insulation IEC 664/VDE 0110 2.5 KV -40 to +70°C red LED yes yes

24 V DC 0.4W

2 CO contact 240 V AC/400 V AC 8 A, 240 V AC 15 A /300 A 2000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 10 ms/5 ms AqNi 90/10 50 x 10³ 10 x 10⁶

PRSXT 2/24V AC **16014.2** / 1 29 x 13 x 30.55 mm

16q

2.5 KV -40 to +70°C red LED yes

24V AC 0.76VA 50/60 Hz 2 CO contact

no

240 V AC/400 V AC 8 A, 240 V AC 15 A /300 A 2000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 10 ms/5 ms AqNi 90/10 50 x 10³ 5 x 10⁶

PRSXT 2/230V AC 16015.2 / 1

29 x 13 x 30.55 mm 16q

2.5 KV

-40 to +70°C red LED yes no 230V AC 0.74VA

50/60 Hz 2 CO contact 240 V AC/400 V AC 8 A, 240 V AC 15 A /300 A 2000 VA 12V at 10mA 30mV at 100mA/6VDC 360 Cycles per hour 36000 Cycles per hour 10 ms/5 ms AqNi 90/10 50 x 10³

Socket base

Mechanical service life

Type
Cat. no./Qty.
Overview
Mounting foot for DIN rails
Plug-in base for
Tension-spring connection
Technical data
Rated current
Rated voltage
Dielectric strength
Insulation group (VDE 0110b)
Ambient temperature
Protection degree, enclosure
Flammability class UL 94
Touch protection, acc. to
Connection cross-section
With ferrules
Stripping length
Approvals

PRS 2 Z **15789.2** / 1

5mm pinning Tension-spring connection 10A 300 V > 2500 Veff C/250 V -25 °C to +70°C

IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm² 7 mm **UL/CSA**

PRS 2 Z **15789.2** / 1

5mm pinning Tension-spring connection 300 V > 2500 Veff C/250 V -25 °C to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm² 7 mm **UL/CSA**

PRS 2 G **15320.2** / 1

5 x 10⁶

TS 35

5mm pinning Tension-spring connection 10A 300 V > 2500 Veff C/250 V -25 °C to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm² 7 mm **UL/CSA**

Holding clamp

Type Cat. no./Qty. PRSXT C1/2 **16016.2** / 20 PRSXT C1/2 **16016.2** / 20 PRSXT C1/2 **16016.2** / 20

Relay 1 CO contact, PRS 1 Z

Complete tension-spring connection components PRSU 1Z/12 V DC consisting of:

· Relay

Type

- · Insert module
- · Socket base
- · Holding clamp

Cat. no./Qty.

PRSU 1Z/12 V DC **15781.2**/1

98 x 16.3 x 69.2 mm

PRSU 1Z/24 V DC PRSU 1Z/60 V DC

PRSU 1Z/24 V DC **15782.2**/1

98 x 16.3 x 69.2 mm 59 g

PRSU 1Z/60 V DC **15783.2**/1

98 x 16.3 x 69.2 mm 59 g



PRSU 1Z/110 V DC

PRSU 1Z/110 V DC **15784.2**/1

98 x 16.3 x 69.2 mm 59 g

Individual components

Size (L x W x H) with TS 35

Relay 1 CO, encapsulated design

-76-
Cat. no./Qty.
Weight
General information
DIN-VDE specifications
Test voltage coil/contact
Pinning
Operating temperature
Important notes
Input data
Input voltage
Rated power consumption
Output data
Contacts
Switching voltage/Max. switching voltage
Max continuous current/inrush current

Typical response time/release time Contact material Electrical service life At contact load Mechanical life span

PRS 1/12 V DC **6996.0**/1 15 g

5 kV 3.5 mm -40 to +85°C

12 V DC

0.40 W 1 CO contacts 240 V AC/400 V AC 12 A/25 A 7 ms/3 ms AgNi 90/10 1.2 x 10³ 4 A, 230 V AC > 30 x 10⁶

PRS LED 24 V DC

15141.2/1

UL/CSA

12 to 24 V DC

PRS 1/24 V DC **6804.0**/1 15 g

5 kV 3.5 mm -40 to +85°C

24 V DC

0.40 W 1 CO contacts 240 V AC/400 V AC 12 A/25 A 7 ms/3 ms AgNi 90/10 1.2×10^3

PRS LED 24 V DC

4 A, 230 V AC

 $> 30 \times 10^6$

15141.2/1

12 to 24 V DC

PRS 1/60 V DC **15539.2**/1 15 g

3.5 mm

Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 5 kV

> -40 to +85°C 60 V DC 110 V DC 0.42 W

1 CO contacts 240 V AC/400 V AC 12 A/25 A 7 ms/3 ms AgNi 90/10 1.2×10^3 4 A, 230 V AC

PRS LED 110 V DC

 $> 30 \times 10^6$

15422.2/1

UL/CSA

60 to 110 V DC

PRS 1/110 V DC **15540.2**/1 15 g

5 kV 3.5mm -40 to+85°C

0.42 W 1 CO contacts 240 V AC/400 V AC 12 A/25 A 7 ms/3 ms AgNi 90/10 1.2×10^3 4 A, 230 V AC $> 30 \times 10^6$

PRS LED 110 V DC

15422.2/1 Status display with free-w

UL/CSA

60 to 110 V DC

Insert module

In parallel to coil

Protected against polarity reversal

Type Cat. no./Qty.

in paramer to con	12 to 21 1 DC	12 to 21 1 DC	00 to 110 v De	00 to 110 v DC
Socket base				
Type Cat. no./Qty.	PRS 1 Z 15780.2/1	PRS 1 Z 15780.2/1	PRS 1 Z 15780.2/1	PRS 1 Z 15780.2/1
General				
Mounting foot for DIN rails	TS 35	TS 35	TS 35	TS 35
Plug-in base for	3.5 mm pinning	3.5 mm pinning	3.5 mm pinning	3.5 mm pinning
Connection type	Tension-spring connection	Tension-spring connection	Tension-spring connection	Tension-spring connection
Technical data				
Rated current	12 A	12 A	12 A	12 A
Rated voltage	300 V	300 V	300 V	300 V
Dielectric strength	> 2500 Veff	> 2500 Veff	> 2500 Veff	> 2500 Veff
Insulation group (VDE 0110 b)	C/250 V	C/250 V	C/250 V	C/250 V
Ambient temperature	-25 to +70°C	-25 to +70°C	-25 to +70°C	-25 to +70°C
Protection degree, enclosure	IP 20	IP 20	IP 20	IP 20
Flammability class UL 94	V-0	V-0	V-0	V-0
Touch protection, acc. to	VBG 4	VBG 4	VBG 4	VBG 4
Connection cross-section	2 x 0.2 - 1.5 mm ²			
With ferrule	2 x 0.2 - 0.75 mm ²			
Insulation stripping length	7 mm	7 mm	7 mm	7 mm

Holding clamp

Approvals

PRS C 1/2 PRS C 1/2 PRS C 1/2 PRS C 1/2 Type Cat. no./Qty 15138.2/1 15138.2/1 **15138.2**/1 15138.2/1

UL/CSA

PRSU 1LZ/24 V DC	PRSU 1Z/24 V AC	PRSU 1Z/115 V AC	PRSU 1Z/230 V AC	
THE PARTY OF THE P	THE STATE OF THE S	THE STATE OF THE S	THE STREET	
PRSU 1LZ/24 V DC 15788.2/1	PRSU 1Z/24 V AC 15785.2/1	PRSU 1Z/115 V AC 15786.2/1	PRSU 1Z/230 V AC 15787.2/1	
98 x 16.3 x 69.2 mm 59 g	98 x 16.3 x 69.2 mm	98 x 16.3 x 69.2 mm 59 q	98 x 16.3 x 69.2 mm 59 g	
Individual compone		39 g	39 g	
Relay 1 CO, encapsu				
PRS 1L/24 V DC	PRS 1/24 V AC	PRS 1/115 V AC	PRS 1/230 V AC	
6940.0 /1 15 g	6480.2 /1 15 g	15228.2 /1 15 g	6481.2 /1 15 g	
Inculation IEC 664/VDE 0110, rate	d voltage 250 V, pollution degree 2	overveltage category III. flammability	v class III. 94 V O	
4 kV	d voltage 250 V, pollution degree 3,	5 kV	5 kV	
5 mm	3.5 mm	3.5 mm	3.5 mm	
-20 to +50°C	-40 to +85°C	-40 to +85°C	-40 to +85°C	
Inductive loads				
24 V DC	24 V AC	115 V AC	230 V AC	
0.50 W	0.75 VA	0.75 VA	0.75 VA	
1 CO contacts	1 CO contacts	1 CO contacts	1 CO contacts	
240 V AC	240 V AC/400 V AC	240 V AC/400 V AC	240 V AC/400 V AC	
16 A/80 A (20 ms)	12 A/25 A	12 A/25 A	12 A/25 A	
10 ms/10 ms AgSn O2	7 ms/3 ms AqNi 90/10	7 ms/3 ms AgNi 90/10	7 ms/3 ms AgNi 90/10	
1 x 10 ⁵	1.2 x 10 ³	1.2 x 10 ³	1.2 x 10 ³	
16 A, 230 V AC	4 A, 230 V AC	4 A, 230 V AC	4 A, 230 V AC	
> 30 x 10 ⁶	> 10 x 10 ⁶	> 10 x 10 ⁶	> 10 x 10 ⁶	
Insert module				
PRS LED 24 V DC	PRS LED 24 V UC	PRS LED 230 V AG	PRS LED 230 V AG	
15141.2/1 Status display with free-wheel diode	15175.2 /1 Status display	15142.2 /1 Status display	15142.2 /1 Status display	
12 to 24 V DC	Status display	Status display		
	12 to 48 V AC/DC	110 to 230 V AC	110 to 230 V AC	
Socket base	12 to 48 V AC/DC	110 to 230 V AC	110 to 230 V AC	
Socket base PRS 2 Z	PRS 1 Z	PRS 1 Z	PRS 1 Z	
PRS 2 Z 15789.2/1	PRS 1 Z 15780.2/1	PRS 1 Z	PRS 1 Z	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning	
PRS 2 Z 15789.2/1 TS 35	PRS 1 Z 15780.2/1	PRS 1 Z 15780.2/1 TS 35	PRS 1 Z 15780.2/1 TS 35	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning Tension-spring connection 10 A 300 V	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning Tension-spring connection 10 A 300 V > 2500 Veff	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning Tension-spring connection 10 A 300 V	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning Tension-spring connection 10 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning Tension-spring connection 10 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning Tension-spring connection 10 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning Tension-spring connection 10 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm ² 2 x 0.2 - 0.75 mm ²	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2-1.5 mm ² 2 x 0.2-0.75 mm ²	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm ² 2 x 0.2 - 0.75 mm ²	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm ² 2 x 0.2 - 0.75 mm ²	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning Tension-spring connection 10 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm ² 2 x 0.2 - 0.75 mm ² 7 mm	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2-1.5 mm ² 2 x 0.2-0.75 mm ² 7 mm	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2-1.5 mm ² 2 x 0.2-0.75 mm ² 7 mm	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm ² 2 x 0.2 - 0.75 mm ² 7 mm	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning Tension-spring connection 10 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm² 7 mm UL/CSA	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2-1.5 mm ² 2 x 0.2-0.75 mm ²	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm ² 2 x 0.2 - 0.75 mm ²	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm ² 2 x 0.2 - 0.75 mm ²	
PRS 2 Z 15789.2/1 TS 35 5 mm pinning Tension-spring connection 10 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm ² 2 x 0.2 - 0.75 mm ² 7 mm	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2-1.5 mm ² 2 x 0.2-0.75 mm ² 7 mm	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2-1.5 mm ² 2 x 0.2-0.75 mm ² 7 mm	PRS 1 Z 15780.2/1 TS 35 3.5 mm pinning Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm ² 2 x 0.2 - 0.75 mm ² 7 mm	

Relay 2 CO contacts, PRS 2 Z

Complete tension-spring connection components PRSU 2Z/12 V DC

consisting of:

· Relay

Type Cat. no./Qty.

Weight

- · Insert module
- · Socket base
- · Holding clamp

PRSU 2Z/12 V DC **15790.2**/1

98 x 16.3 x 69.2 mm

PRSU 2Z/24 V DC **15791.2**/1

98 x 16.3 x 69.2 mm



PRSU 2Z/48 V DC **15792.2**/1

98 x 16.3 x 69.2 mm



PRSU 2Z/60 V DC

PRSU 2Z/60 V DC **15793.2**/1

98 x 16.3 x 69.2 mm 61 g

PRS 2/60 V DC

Individual components

Size (L x W x H) with TS 35

Relay 2 CO, encapsulated design

Туре
Cat. no./Qty.
Weight
General information
DIN-VDE specifications
Test voltage coil/contact
Pinning
Operating temperature
Input data
Input voltage
Rated power consumption
Output data
Contacts
Switching voltage/Max. switching voltage
Max continuous current/inrush current
Typical response time/release time
Contact material

PRS 2/12 V DC **6482.2**/1 15 g 5 kV -40 to +70°C 12 V DC 0.40 W 2 CO contacts



PRS 2/24 V DC **6483.2**/1 15 g

5 kV 5 mm -40 to +70°C 24 V DC

0.40 W

2 CO contacts 240 V AC/400 V AC 8 A/15 A 7 ms/2 ms AgNi 90/10 1.5 x 10⁵ 4 A, 230 V AC >30 x 10⁶

PRS 2/48 V DC **15334.2**/1 15 g

5 kV

0.40 W

8 A/15 A

1.5 x 10⁵

>30 x 10⁶

7 ms/2 ms

AgNi 90/10

4 A, 230 V AC

2 CO contacts

240 V AC/400 V AC

15335.2/1 15 g

Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 5 kV 5 mm 5 mm -40 to +70°C -40 to +70°C 60 V DC 48 V DC

0.40 W

2 CO contacts 240 V AC/400 V AC 8 A/15 A 7 ms/2 ms AgNi 90/10 1.5 x 10⁵ 4 A, 230 V AC >30 x 10⁶

Insert module

At contact load Mechanical life span

Electrical service life

Cat. no./Qty.
Protected against polarity reversal
In parallel to coil

PRS LED 24 V DC **15141.2**/1

12 to 24 V DC

PRS LED 24 V DC **15141.2**/1

12 to 24 V DC

PRS LED 24 V UC **15175.2**/1

12 to 48 V AC/DC

PRS LED 110 V DC 15422.2/1

Status display with free-60 to 110 V DC

Socket base

Туре	PRS 2 Z	PRS 2 Z	PRS 2 Z	PRS 2 Z
Cat. no./Qty.	15789.2 /1	15789.2 /1	15789.2 /1	15789.2 /1
General				
Mounting foot for DIN rails	TS 35	TS 35	TS 35	TS 35
Plug-in base for	5 mm pinning	5 mm pinning	5 mm pinning	5 mm pinning
Connection type	Tension-spring connection	Tension-spring connection	Tension-spring connection	Tension-spring connection
Technical data				
Rated current	10 A	10 A	10 A	10 A
Rated voltage	300 V	300 V	300 V	300 V
Dielectric strength	> 2500 Veff	> 2500 Veff	> 2500 Veff	> 2500 Veff
Insulation group (VDE 0110 b)	C/250 V	C/250 V	C/250 V	C/250 V
Ambient temperature	-25 to +70°C	-25 to +70°C	-25 to +70°C	-25 to +70°C
Protection degree, enclosure	IP 20	IP 20	IP 20	IP 20
Flammability class UL 94	V-0	V-0	V-0	V-0
Touch protection, acc. to	VBG 4	VBG 4	VBG 4	VBG 4
Connection cross-section	2 x 0.2 - 1.5 mm ²			
With ferrule	2 x 0.2 - 0.75 mm ²			
Insulation stripping length	7 mm	7 mm	7 mm	7 mm
Approvals	UL/CSA	UL/CSA	UL/CSA	UL/CSA

Holding clamp

PRS C 1/2 PRS C 1/2 PRS C 1/2 PRS C 1/2 Type **15138.2**/1 Cat. no./Qty **15138.2**/1 **15138.2**/1 **15138.2**/1

PRSU 2Z/110 V DC	PRSU 2Z/24 V AC	PRSU 2Z/48 V AC	PRSU 2Z/115 V AC	PRSU 2Z/230 V AC	
PRSU 2Z/110 V DC 15794.2/1	PRSU 2Z/24 V AC 15795.2/1	PRSU 2Z/48 V AC 15950.2/1	PRSU 2Z/115 V AC 15796.2/1	PRSU 2Z/230 V AC 15797.2/1	
98 x 16.3 x 69.2 mm 61 g	98 x 16.3 x 69.2 mm 61 g	98 x 16.3 x 69.2 mm 61 g	98 x 16.3 x 69.2 mm 61 g	98 x 16.3 x 69.2 mm 61 g	
Individual componer Relay 2 CO, encapsul					
PRS 2/110 V DC	PRS 2/24 V AC	PRS 2/48 V AC	PRS 2/115 V AC	PRS 2/230 V AC	
15541.2 /1 15 g	6484.2 /1 15 g	15947.2 /1 15 g	15229.2 /1 15 g	6485.2 /1 15 g	
Insulation IEC 664/VDE 0110, rated	d voltage 250 V, pollution degree 3, o	overvoltage category III, flammability	class UL 94 V-0		
5 kV	5 kV	5 kV	5 kV	5 kV	
5 mm -40 to +70°C	5 mm -40 to +70°C	5 mm -40 to +70°C	5 mm -40 to +70°C	5 mm -40 to +70°C	
	24.V.A.C	40.V/AC	115 V AC	230 V AC	
110 V DC 0.40 W	24 V AC 0.75 VA	48 V AC 0.75 VA	115 V AC 0.75 VA	0.75 VA	
2 CO contacts 240 V AC/400 V AC	2 CO contacts 240 V AC/400 V AC	2 CO contacts 240 V AC/400 V AC	2 CO contacts 240 V AC/400 V AC	2 CO contacts 240 V AC/400 V AC	
8 A/15 A	8 A/15 A	8 A/15 A	8 A/15 A	8 A/15 A	
7 ms/2 ms	7 ms/2 ms	7 ms/2 ms	7 ms/2 ms	7 ms/2 ms	
AgNi 90/10	AgNi 90/10	AgNi 90/10	AgNi 90/10	AgNi 90/10	
1.5 x 10 ⁵ 4 A, 230 V AC	1.5 x 10 ⁵ 4 A, 230 V AC	1.5 x 10 ⁵ 4 A, 230 V AC	1.5 x 10 ⁵ 4 A, 230 V AC	1.5 x 10 ⁵ 4 A, 230 V AC	
>30 x 10 ⁶	>5 x 10 ⁶	>5 x 10 ⁶	> 5 x 10 ⁶	> 5 x 10 ⁶	
Insert module					
PRS LED 110 V DC 15422.2/1	PRS LED 24 V UC 15175.2/1	PRS LED 24 V UC 15175.2/1	PRS LED 230 V AC 15142.2/1	PRS LED 230 V AC 15142.2/1	
Status display with free-wheel diode	Status display	Status display	Status display	Status display	
60 to 110 V DC	12 to 48 V AC/DC	12 to 48 V AC/DC	110 to 230 V AC	110 to 230 V AC	
Socket base					
PRS 2 Z	PRS 2 Z	PRS 2 Z	PRS 2 Z	PRS 2 Z	
15789.2 /1	15789.2 /1	15789.2 /1	15789.2 /1	15789.2/1	
TS 35	TS 35	TS 35	TS 35	TS 35	
5 mm pinning	5 mm pinning	5 mm pinning	5 mm pinning	5 mm pinning	
Tension-spring connection	Tension-spring connection	Tension-spring connection	Tension-spring connection	Tension-spring connection	
10 A	10 A	10 A	10 A	10 A	
300 V	300 V	300 V	300 V	300 V	
> 2500 Veff C/250 V	> 2500 Veff C/250 V	> 2500 Veff C/250 V	> 2500 Veff C/250 V	> 2500 Veff C/250 V	
-25 to +70°C	-25 to +70°C	-25 to +70°C	-25 to +70°C	-25 to +70°C	
IP 20	IP 20	IP 20	IP 20	IP 20	
V-0	V-0 VBG 4	V-0	V-0	V-0	
VBG 4 2 x 0.2 - 1.5 mm ²	VBG 4 2 x 0.2 - 1.5 mm ²	VBG 4 2 x 0.2 - 1.5 mm ²	VBG 4 2 x 0.2 - 1.5 mm ²	VBG 4 2 x 0.2 - 1.5 mm ²	
2 x 0.2 - 0.75 mm ²	2 x 0.2 - 0.75 mm ²	2 x 0.2 - 0.75 mm ²	2 x 0.2 - 0.75 mm ²	2 x 0.2 - 0.75 mm ²	
7 mm	7 mm	7 mm	7 mm	7 mm	
UL/CSA	UL/CSA	UL/CSA	UL/CSA	UL/CSA	
Holding clamp					
PRS C 1/2 15138.2/1	PRS C 1/2 15138.2/1	PRS C 1/2 15138.2/1	PRS C 1/2 15138.2/1	PRS C 1/2 15138.2/1	

Relay 4 CO contacts, PRS 4 Z

Complete tension-spring connection components PRSU 4Z/12 V DC

- consisting of: · Relay
- · Insert module
- · Socket base
- · Holding clamp

Type Cat. no./Qty. Size (L x W x H) with TS 35

PRSU 4Z/12 V DC **15798.2**/1 98 x 31 x 69.2 mm

109 g

PRSU 4Z/24 V DC **15799.2**/1

98 x 31 x 69.2 mm 109 q



PRSU 4Z/48 V DC **15800.2**/1

98 x 31 x 69.2 mm 109 g



PRSU 4Z/60 V DC **15801.2**/1

98 x 31 x 69.2 mm 109 g

Individual components

Relay 4 CO, encapsulated design

Туре					
Cat. no./Qty.					
Weight					
General information					
DIN-VDE specifications					
Test voltage coil/contact					
Operating temperature					
Input data					
Input voltage					
Rated power consumption					
Output data					
Contacts					
Switching voltage/Max. switching voltage					
Max continuous current/inrush current					
Typical response time/release time					

Contact material Electrical service life At contact load Mechanical life span

PRS 4/12 V DC **6486.2**/1 30 g

Insulation IEC 664/VDE 0110, rated voltage 250 V, pollution degree 3, overvoltage category III, flammability class UL 94 V-0 2.5 kV

12 V DC 0.75 W

-40 to +70°C

4 CO contacts 240 V AC/240 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10⁵ 6 A, 240 V AC >30 x 10⁶

PRS 4/24 V DC **6487.2**/1

2.5 kV -40 to +70°C 24 V DC 0.75 W

4 CO contacts 240 V AC/240 V AC 6 A/12 A 15 ms / 10 ms AgNi 90/10 15 x 105 6 A, 240 V AC $>30 \times 10^6$

PRS 4/48 V DC **15461.2**/1

30 g

2.5 kV

48 V DC 0.75 W

-40 to +70°C

4 CO contacts 240 V AC/240 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10⁵ 6 A, 240 V AC $>30 \times 10^6$

PRS 4/60 V DC **15336.2**/1

30 g

2.5 kV -40 to +70°C

60 V DC 0.75 W

4 CO contacts 240 V AC/240 V AC 6 A/12 A 15 ms/10 ms AgNi 90/10 1.5 x 10⁵ 6 A, 240 V AC $>30 \times 10^6$

Insert module

Туре			
Cat. no./Qty.			
Protected against polarity reversal			
In parallel to coil			

PRS LED 24 V DC **15141.2**/1

12 to 24 V DC

PRS LED 24 V DC **15141.2**/1

12 to 24 V DC

PRS LED 24 V UC **15175.2**/1

12 to 48 V AC/DC

PRS LED 110 V DC **15422.2**/1

Status display with free-wheel did 60 to 110 V DC

Socket base

Туре
Cat. no./Qty.
General
Mounting foot for DIN rails
Plug-in base for
Connection type
Technical data
Rated current
Rated voltage
Dielectric strength
Insulation group (VDE 0110 b)
Ambient temperature
Protection degree, enclosure
Flammability class UL 94
Touch protection, acc. to
Connection cross-section
With ferrule
Insulation stripping length
Approvals

15431.2/1 2.8 mm fast-on

PRS 4 Z

Tension-spring connection 12 A 300 V > 2500 Veft C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm²

2 x 0.2 - 0.75 mm²

PRS 4 Z **15431.2**/1

2.8 mm fast-on Tension-spring connection 300 V > 2500 Veft C/250 V -25 to +70°0 IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm 7 mm UL/CSA

PRS 4 Z **15431.2**/1

2.8 mm fast-on Tension-spring connection 12 A 300 V > 2500 Veft C/250 V -25 to +70°0 IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm² 2 x 0.2 - 0.75 mm² 7 mm

PRS 4 Z

15431.2/1

2.8 mm fast-on Tension-spring connection 12 A 300 V > 2500 Veff C/250 V -25 to +70°C IP 20 V-0 VBG 4 2 x 0.2 - 1.5 mm²

2 x 0.2 - 0.75 mm²

Holding clamp

Type Cat. no./Qty PRS C 4 **15140.2**/1

7 mm

UL/CSA

PRS C 4 **15140.2**/1 PRS C 4 **15140.2**/1

UL/CSA

PRS C 4 **15140.2**/1

7 mm

UL/CSA

PRSU 4Z/110 V DC	PRSU 4Z/220 V DC	PRSU 4Z/12 V AC	PRSU 4Z/24 V AC	PRSU 4Z/115 V AC	PRSU 4Z/230 V AC
PRSU 4Z/110 V DC 15802.2/1	PRSU 4Z/220 V DC 15803.2/1	PRSU 4Z/12 V AC 15804.2/1	PRSU 4Z/24 V AC 15805.2/1	PRSU 4Z/115 V AC 15806.2/1	PRSU 4Z/230 V AC 15807.2/1
98 x 31 x 69.2 mm 109 q	98 x 31 x 69.2 mm	98 x 31 x 69.2 mm 109 q	98 x 31 x 69.2 mm 109 q	98 x 31 x 69.2 mm 109 q	98 x 31 x 69.2 mm
Individual compone	nts		ios g	ios g	107 9
Relay 4 CO, encapsul	ated design				
PRS 4/110 V DC 15542.2/1	PRS 4/220 V DC 15368.2/1	PRS 4/12 V AC 15393.2/1	PRS 4/24 V UC 6488.2/1	PRS 4/115 V AC 15257.2/1	PRS 4/230 V AC 6489.2/1
30 g	30 g	30 g	30 g	30 g	30 g
Insulation IEC 664/VDF 0110_rate	d voltage 250 V, pollution degree 3,	overvoltage category III. flammability	v class III 94 V-0		
2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV
-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C
110 V DC	220 V DC	12 V AC	24 V AC	115 V AC	230 V AC
0.75 W	0.75 W	1.0 VA	1.0 VA	1.0 VA	1.0 VA
4 CO contacts	4 CO contacts	4 CO contacts	4 CO contacts	4 CO contacts	4 CO contacts
240 V AC/240 V AC	240 V AC/240 V AC	240 V AC/240 V AC	240 V AC/240 V AC	240 V AC/240 V AC	240 V AC/240 V AC
6 A/12 A	6 A/12 A	6 A/12 A	6 A/12 A	6 A/12 A	6 A/12 A
15 ms/10 ms	15 ms / 10 ms	15 ms/10 ms	15 ms/10 ms	15 ms/10 ms	15 ms/10 ms
AgNi 90/10	AgNi 90/10	AgNi 90/10	AgNi 90/10	AgNi 90/10	AgNi 90/10
1.5 x 10 ⁵	1.5 x 10 ⁵	1.5 x 10 ⁵	1.5 x 10 ⁵	1.5 x 10 ⁵	1.5 x 10 ⁵
6 A, 240 V AC >30 x 10 ⁶	6 A, 240 V AC >30 x 10 ⁶	6 A, 240 V AC >20 x 10 ⁶	6 A, 240 V AC >20 x 10 ⁶	6 A, 240 V AC >20 x 10 ⁶	6 A, 240 V AC >20 x 10 ⁶
Insert module					
PRS LED 110 V DC 15422.2/1	PRS LED 230 V AC 15142.2/1	PRS LED 24 V UC 15175.2/1	PRS LED 24 V UC 15175.2/1	PRS LED 230 V AC 15142.2/1	PRS LED 230 V AC 15142.2/1
Status display with free-wheel diode 60 to 110 V DC	Status display 110 to 230 V AC	Status display 12 to 48 V AC/DC	Status display 12 to 48 V AC/DC	Status display 110 to 230 V AC	Status display 110 to 230 V AC
Socket base		, , , , , , , , , , , , , , , , , , ,	,		
PRS 4 Z	PRS 4 Z	PRS 4 Z	PRS 4 Z	PRS 4 Z	PRS 4 Z
15431.2 /1	15431.2/1	15431.2/1	15431.2/1	15431.2/1	15431.2/1
TS 35	TS 35	TS 35	TS 35	TS 35	TS 35
2.8 mm fast-on	2.8 mm fast-on	2.8 mm fast-on	2.8 mm fast-on	2.8 mm fast-on	2.8 mm fast-on
Tension-spring connection	Tension-spring connection	Tension-spring connection	Tension-spring connection	Tension-spring connection	Tension-spring connection
12 A	12 A	12 A	12 A	12 A	12 A
300 V	300 V	300 V	300 V	300 V	300 V
> 2500 Veff	> 2500 Veff	> 2500 Veff	> 2500 Veff	> 2500 Veff	> 2500 Veff
C/250 V	C/250 V	C/250 V -25 to +70°C	C/250 V	C/250 V -25 to +70°C	C/250 V -25 to +70°C
-25 to +70°C IP 20	-25 to +70°C IP 20	-25 to +70°C	-25 to +70°C IP 20	-25 to +70°C IP 20	-25 to +70°C IP 20
V-0	V-0	V-0	V-0	V-0	V-0
VBG 4	VBG 4	VBG 4	VBG 4	VBG 4	VBG 4
2 x 0.2 - 1.5 mm ²	2 x 0.2 - 1.5 mm ²	2 x 0.2 - 1.5 mm ²	2 x 0.2 - 1.5 mm ²	2 x 0.2 - 1.5 mm ²	2 x 0.2 - 1.5 mm ²
2 x 0.2 - 0.75 mm ²	2 x 0.2 - 0.75 mm ²	2 x 0.2 - 0.75 mm ²	2 x 0.2 - 0.75 mm ²	2 x 0.2 - 0.75 mm ²	2 x 0.2 - 0.75 mm ²
7 mm	7 mm	7 mm	7 mm	7 mm	7 mm
UL/CSA	UL/CSA	UL/CSA	UL/CSA	UL/CSA	UL/CSA

Holding clamp

PRS C 4 15140.2/1 PRS C 4 15140.2/1 PRS C 4 15140.2/1 PRS C 4 15140.2/1

PRS C 4 15140.2/1 PRS C 4 15140.2/1

Auto-Off-On Relay RM/HA/24 VUC

- Mount on TS 35
- Installation design, width 11.2 mm
- · IP 20 protection
- · Screw connections protected against accidental contact, according to VBG 4
- · Switch for HAND/OFF/AUTOMATIC operation
- · LED for indicating the switching status
- Basic insulation, according to VDE 0435/ EN 61810-1



Dimensions 80

Гуре Cat. no./Qty.

Size (L x W x H) with TS 35×7.5

Weight

General information Insulation properties

DIN-VDE specifications

Dielectric strength of coil/contacts (1.2/50 μs) Dielectric strength between mains voltage and contacts

with open contact

Operating temperature

Relay protection type

Insulation stripping length

Max. connection cross-section for screw-clamp

 mm^2 **AWG**

Torque

Ambient heat dissipation without

contact current

with continuous current

Coil input data

Rated voltage (UN) Power rating AC/DC

Operating range

Contacts output data

Number of contacts

Max continuous current/max inrush current

Rated voltage/max. switching voltage

Max. power rating AC 1

Max. power rating AC 15 (230 V AC)

1-phase motor load, AC 3 - operation (230 V AC)

Max. switching current DC 1: 30/110/220 V

Min. switching load

Contact material

Mechanical life span

Electrical life span AC 1

Contact data

Permissible contact load of glow lamps (230 V) Fluorescent lamps, compensated (230 V)

Fluorescent lamps, uncompensated (230 V)

Halogen lamps (230 V)

RM/HA/24 VUC **15561.2**/1

84 x 11.2 x 64 mm

45 g

DIN EN 50178; DIN VDE 0110, pollution degree 2,

overvoltage category III

4 kV

3,000 V AC

1000 V AC

-10 to +50°C

IP 20

7 mm

solid core

stranded $1 \times 6 / 2 \times 2.5$ $1 \times 4 / 2 \times 1.5$ $1 \times 10/2 \times 14$ 1 x 12/2 x 16

0.5 Nm

0.4 W

1.8 W

24 V AC/DC

0.6 VA (50 Hz) / 0.4 W

19.2 V to 26.4 V AC/DC

1 CO contact

10 A/15 A

250/400 V AC

2500 VA

500 VA

0.44 kW

10 A/0.3 A/0.12 A

300 mW (5 V/5 mA)

AgSnO 2

10 x 10⁶ switching cycles

100 x 10³ switching cycles

1000 W

350 W 500 W

1000 W

Approvals (details upon request)

Auto-Off-On Relay RM/HA/24 VUC

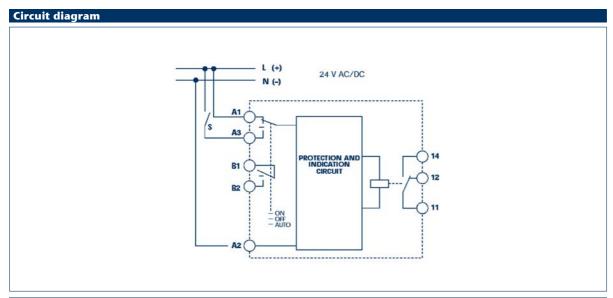


Table of functions

Changeover contact	Controller output (S)	Output relay	LED	B1-B2 check-back contact
AUTO	Closed	ON	ON	Closed
AUTO	Open	OFF	OFF	Closed
ON	-	ON	ON	Open
OFF	-	OFF	OFF	Open

Functional principle

When the changeover contact is in the AUTO position, the check-back contact B1-B2 is closed. The LED is lit when the NO of the internal relay is closed.

AUTO = The output signal originating from the controller will be forwarded

OFF = The actuator for restricting the control variable is turned off

ON = The actuator for restricting the control variable is turned on independent from the controller

Opto-couplers | Solid-State

The unambiguous and secure separation of potentials in the different data and control signals - this is important for the trouble-free functioning of equipment and production facilities. The opto-coupler is to an increasing degree responsible for the coupling between sensor and controls, or controls and actuators.

The opto-coupler offers several other advantages over mechanical relay couplers, in addition to the electrical isolation of input and output circuits. This includes a high switching frequency, a high repetition accuracy, a long life span, and resistance to shock.

CONTA-CLIP offers opto-couplers in a variety of voltages and power ranges. In order to suit industrial applications, these modules and components are provided with the appropriate protective input circuitry.



Optokoppler | Solid-State







Solid-state compact PSC

The **PSC** solid-state compact distinguishes itselves by its compact shape in the terminal block design. Thanks to their thin form (6.2 mm) and a switchable continuous current of 2 amps, these solid-state modules can be integrated into a mounted-rail control design where space is tight. And owing to their features of secure electrical isolation of circuits and the multiplication of contacts, these modules are well-suited for use in automation engineering. The solid-state components offer a total of 8 varieties, including screw and tension-spring, and are available with input voltages from 24 to 60 VDC and 240 VAC. With the AQI cross-connection system, mutual potentials can be carried out over the coil or contact sides. Excellent equipment identification is possible since the socket base has a labelling surface for the standard PMC BSTR 6/30 marking system. **CONTA-CLIP** also offers a customer-specific labelling service, in addition to the standard marking.

Solid state relay modules CMS-SSR

The CMS-SSR two-way solid state relay module has universal AC / DC inputs and outputs that mean every possible combinations is achievable. The voltage drop to the outputs is extremely low, even at maximum operating load. Resulting in minimal heating in the local environment. Both channels of the module are identical and have a yellow LED to indicate the switch status.

Solid-state terminals

1. Overview

Labelling | Marking
The socket bases have a labelling surface
which is optimally suited for our PMC PocketMaxicard standard marking systems. In addition to our large variety of standard labels,
CONTA-CLIP can also provide "just-in-time"
individual labelling for you.



Using the mount/dismount lever
The mounting and dismounting mechanism forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever!





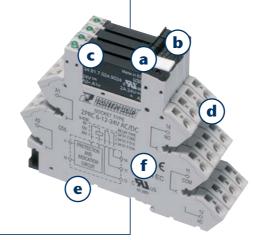
Pluggable solid-state modules

Solid-state modules are also available with various input and output voltages to fit your individual requirements!



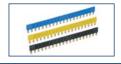
Relay terminals can be later converted to solid-state terminal, in cases of high expected electrical life spans and in order to avoid the influence of contact-material migration (with DC).

illigration (with	TDC).		
Socket base	Input	Output	Solid-state relays
ZPRC 6-12-24V DC	24V DC	2A 24V DC	PSC 1/24V/DC-24V/2A/DC
ZPRC 60V DC	60V DC	2A 24V DC	PSC 1/60V/DC-24V/2A/DC
ZPRC 230V AC	230V AC	2A 24V DC	PSC 1/60V/DC-24V/2A/DC
ZPRC LW 230V AC	230V AC	2A 24V DC	PSC 1/60V/DC-24V/2A/DC
ZPRC 6-12-24V DC	24V DC	2A 230V AC	PSC 1/24V/DC-240V/2A/AC
ZPRC 60V DC	60V DC	2A 230V AC	PSC 1/60V/DC-240V/2A/AC
ZPRC 230V AC	230V AC	2A 230V AC	PSC 1/60V/DC-240V/2A/AC
ZPRC LW 230V AC	230V AC	2A 230V AC	PSC 1/60V/DC-240V/2A/AC
PRC 6-12-24V DC	24V DC	2A 24V DC	PSC 1/24V/DC-24V/2A/DC
PRC 60V DC	60V DC	2A 24V DC	PSC 1/60V/DC-24V/2A/DC
PRC 230V AC	230V AC	2A 24V DC	PSC 1/60V/DC-24V/2A/DC
PRC LW 230V AC	230V AC	2A 24V DC	PSC 1/60V/DC-24V/2A/DC
PRC 6-12-24V DC	24V DC	2A 230V AC	PSC 1/24V/DC-240V/2A/AC
PRC 60V DC	60V DC	2A 230V AC	PSC 1/60V/DC-240V/2A/AC
PRC 230V AC	230V AC	2A 230V AC	PSC 1/60V/DC-240V/2A/AC
PRC LW 230V AC	230V AC	2A 230V AC	PSC 1/60V/DC-240V/2A/AC



Pluggable external cross-connections

The AQI/PRC pluggable cross-connection system enables a time-saving distribution of potentials. The AQI/PRC is constructed so that it is protected against accidental touch. It is available as a 20-pole unit, in either yellow, blue or black. The cross-connector can be shortened to fewer poles in order to fit the required interface. Insulation plating can be used to insulate the ends.



Mounts on standard TS 35 rail CONTA-CLIP relay terminals can be flexibly mounted on standard TS 35 mounting rails, according to EN 50035 and EN 50022.

Connection types

All of our relay terminals are optionally available with screw or tension-spring connection systems.





2. Approvals (Details upon request.)







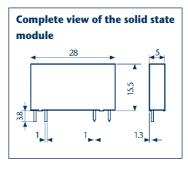


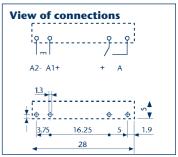
Solid-state terminals

3. Features

I. Solid-state module

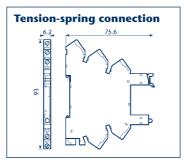
- 5 mm width, very thin solid-state module, semi-conductor relay
- For DC or AC loads, without contact-material erosion
- For high numbers of switching cycles

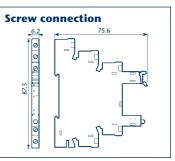




II. Socket base

- Mount on TS 35
- Very flexible and modular construction of individual solid-state module base
- User-friendly, because the solid-state modules can be easily replaced
- High-quality connecting terminals (tension-spring or screw connection system)
- Integrated EMC input circuitry, and LED
- High-quality innovative mount/dismount lever
- All versions are optionally available with screw or tension-spring connection system





4. Specifications

Opto-coupler, semi-conductor relay, SSR

Additional data

Ambient heat dissipation	without output current W	0.2 0.5 at ZPRCU LW 1/240 V DC and PRCU LW 1/240 V DC
	at rated output current W	0.4 0.9 at ZPRCU LW 1/240 V DC and PRCU LW 1/240 V DC

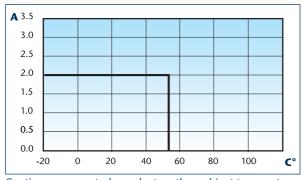
5. Input specification

DC version

Rated voltage	Input code	Operatir	ng range	Drop-out voltage	Rated current	Power rating
U _N		U _{min}	U _{max}	U		P
V		V	V	V	mA	W
24	-	16.8	30	10	10.5	-
230 240 AC	_	184	264	72	5.6 (*)	0.5 (*)

^{*} Rated current and power at $U_N = 240 \text{ V}$.

6. Output specification



Continuous current, dependent on the ambient temperature. SSR with 2 A, DC or AC

Solid-state terminals, screw-connection

consisting of:

- · A basic terminal and a pluggable solid state module
- Mount on TS 35





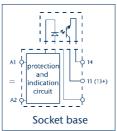


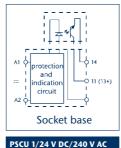
PSCU 1/24 V DC/24 V DC PSCU 1/24 V DC/24 V AC PSCU 1/240 V AC/24 V DC PSCU 1/240 V AC/240 V AC



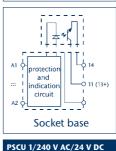
Circuit diagram

· Internal EMC coil circuitry and LED display





87.3 x 6.2 x 79.9 mm



15532.2/10

36 q

230 V AC

0.1/0.4 ms

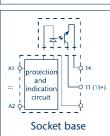
-20 to +55 °C

-20 to +55 °C

2,500 V

RT III

87.3 x 6.2 x 79.9 mm



PSCU 1/240 V AC/240 V AC

87.3 x 6.2 x 79.9 mm

15531.2/10

36 g

230 V AC

12/12 ms

2,500 V

RT III

10 mm

-20 to +55 °C

-20 to +55 °C

1 x 2.5 | 1 x 2.5 mm²

1 x 14 | 1 x 14 mm²

Тур	e
Cat	

Cat. no./Qty. Type/Colour grey (RAL 7032) Size (L x W x H) with TS 35×7.5

Rated operating voltage

General information

Response time/Release time

Dielectric strength of control/load circuit

Ambient temperature Relay protection type

Ratings for socket base

Ambient temperature Insulation stripping length

Max. connection cross-section, solid | flexible

PSCU 1/24 V DC/24 V DC
15530.2 /10
13330.2/10

87.3 x 6.2 x 79.9 mm 36 g

0.1/0.4 ms 2,500 V -20 to +55 °C RT III

1 x 2.5 | 1 x 2.5 mm²

1 x 14 | 1 x 14 mm²

-20 to +55 °C

10 mm

24 V DC

16 to 30 V DC

10.5 mA DC

10 AC/DC

3.200 O

0.2 W

24 V DC

-20 to +55 °C RT III -20 to +55 °C

15529.2/10

36 g

24 V DC

12/12 ms

2,500 V

24 V DC

16 to 30 V DC

10.5 mA DC

10 AC/DC

3.200 O

0.2 W

10 mm 1 x 2.5 | 1 x 2.5 mm² 1 x 14 | 1 x 14 mm²

10 mm 1 x 2.5 | 1 x 2.5 mm² 1 x 14 | 1 x 14 mm² 230 V DC

0.9 W 184 to 264 V D 5.6 mA DC

20 AC/DC 21.300Ω

230 V DC 0.9 W 184 to 264 V DC 5.6 mA DC 20 AC/DC 21.300 Ω

Input circuit

Rated voltage Power rating Operating range

Control current Drop-out voltage

Input resistance

Ratings for solid-state module combined with socket base **Output circuit**

Output

Max. continuous current|Max. inrush current (10ms) Rated voltage | Max. reverse voltage Switching load-voltage range

Min. switching current

Max. residual current at 55°C

Max. voltage drop at 20°C and rated current

1 NO contact 2/20 A

(24/33) V AC DC 1.5 to 24 V DC 1 mA

0.001 mA 0.12 V

1 NO contact 2/40 A (240/275) V AC 12 to 240 V AC 22 mA 1.5 mA 1.6 V

1 NO contact 2/20 A (24/33) V AC DC 1.5 to 24 V DC 1 mA 0.001 mA 0.12 V

1 NO contact 2/40 A (240/275) V AC 12 to 240 V AC 22 mA 1.5 mA 1.6 V

Individual components, socket base

Type/Colour grey (RAL 7032)

Cat. no./Qty.

PRC 6-12-24 V DC **15490.2**/10

PRC 6-12-24 V DC **15490.2**/10

PRC 220 ... 240 V AC/DC **15489.2**/10

PRC 220 ... 240 V AC/DC **15489.2**/10

Individual components, solid-state module

Type/colour

Cat. no./Qty

PSC 1/24 V DC-24 V/2 A/DC **15505.2**/10

PSC 1/24 V DC-240 V/2 A/AC **15504.2**/10

PSC 1/60 V DC-24 V/2 A/DC **15507.2**/10

PSC 1/60 V/DC-240 V/2 A/AC **15506.2**/10

Accessories AQI/PRC external insulated cross-connector

Cat. no./Qty. yellow Cat. no./Qty. blue

Cat. no./Qty. black

15545.8/1 **15545.5**/1 15545.4/1

TW/PRC

AQI/PRC/20

15545.8/1 **15545.5**/1 15545.4/1

TW/PRC

15546.2/1

AQI/PRC/20

AQI/PRC/20 **15545.8**/1 **15545.5**/1 **15545.4**/1

TW/PRC

15546.2/1

AQI/PRC/20 **15545.8**/1 **15545.5**/1 15545.4/1

TW/PRC partition

PMC labelling/markers

Cat. no./Qty., special print

Cat. no./Qty. neutral

Cat. no./Qty., standard print, see catalog

Cat. no./Qty.

15546.2/1

PMC BSTR 6/30 **CONTA-CONNECT** 9106.7/300

PMC BSTR 6/30

CONTA-CONNECT 9106.7/300 9107.7/300

PMC BSTR 6/30

CONTA-CONNECT 9106.7/300 9107.7/300

PMC BSTR 6/30

TW/PRC

15546.2/1

CONTA-CONNECT 9106.7/300 9107.7/300

SDB screwdriver

Cat. no./Qty.

SDB 0.6 x 3.5 **1086.0**/1

9107.7/300

SDB 0.6 x 3.5 **1086.0**/1

SDB 0.6 x 3.5 1086.0/1

SDB 0.6 x 3.5 **1086.0**/1

Solid-state terminals, tension-spring connection ZPSCU 1/24 V DC/24 V DC ZPSCU 1/24 V DC/240 V AC ZPSCU 1/240 V AC/24 V DC ZPSCU 1/240 V AC/240 V AC

consisting of:

- · A basic terminal and a pluggable solid state module
- Mount on TS 35



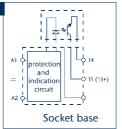


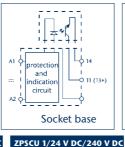


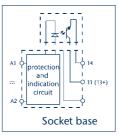


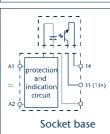
Circuit diagram

· Internal EMC coil circuitry and LED display









ZPSCU 1/240 V AC/240 V AC

93 x 6.2 x 79.9 mm

15535.2/10

36 g

230 V AC

12/12 ms

2,500 V

Туре		
Cat. no./Qty.	Type/Colour grey (RA	L 7032)
Size (L x W x H) with T	S 35 x 7.5	
Weight		
Rated operating voltage	je – – – – – – – – – – – – – – – – – – –	
General informatio	n	
Response time/Release	time .	
Dielectric strength of o	control/load circuit	
Ambient temperature		
Relay protection type		
Ratings for socket b	oase	
Ambient temperature		
Insulation stripping lea	ngth	
Max. connection cross-section	n, solid flexible	mm²
		AWG
Input circuit		
Rated voltage		
Power rating		
Operating range		
Control current		
The second secon		

ZPSCU 1/24 V DC/24 V DC	ZPSCU 1/24 V DC/240 V
15534.2 /10	15533.2 /10
93 x 6.2 x 79.9 mm	93 x 6.2 x 79.9 mm
36 g	36 g
24 V DC	24 V DC
0.1/0.4 ms	12/12 ms
2,500 V	2,500 V
-20 to +55 °C	-20 to +55 °C
RT III	RT III
-20 to +55 °C	-20 to +55 °C
10 mm	10 mm
1 x 2.5/2 x 1.5 1 x 2.5/2 x 1.5	1 x 2.5/2 x 1.5 1 x 2.5/2 x 1
1 x 14/2 x 16 1 x 14/2 x 16	1 x 14/2 x 16 1 x 14/2 x
24 V DC	24 V DC

0.2 W 16 to 30 V DC

10 V DC

ZPR **15494.2**/10

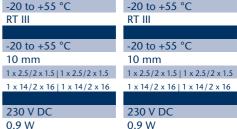
10.5 mA DC

	10 mm
2 x 1.5	1 x 2.5/2 x 1.5 1 x 2.5/2 x 1.5
2 x 16	1 x 14/2 x 16 1 x 14/2 x 16
	24 V DC
	0.2 W
	16 to 30 V DC
	10.5 mA DC
	10 V DC
	3200 Ω
	1 NO contact
	2/40 A
	(240/275) V AC
	12 to 240 V AC
	22 mA

UVDC
3200 Ω
NO contact
2/40 A
240/275) V AC
2 to 240 V AC
22 mA
.5 mA
.6 V

ZPSCU 1/240 V AC/24 V DO
15543.2 /10
93 x 6.2 x 79.9 mm
36 g
230 V AC
0.1/0.4 ms
2,500 V
-20 to +55 °C
RT III
-20 to +55 °C

2,500 V	
-20 to +55 °C	
RT III	
-20 to +55 °C	
10 mm	



184 to 264 V DO

5.6 mA DC

72 V DC

43,000 Ω

Drop-out voltage
Input resistance
Ratings for solid-state module combined with socket base
Output circuit
Output
Max. continuous current Max. inrush current (10ms)
Rated voltage Max. reverse voltage
Switching load-voltage range
Min. switching current
Max. residual current at 55°C
Max. voltage drop at 20°C and rated current
Individual components, socket base
Type/Colour grey (RAL 7032)

Cat. no./Qty.

3200 Ω	3200 Ω
1 NO contact	1 NO contact
2/20 A	2/40 A
(24/33) V AC DC	(240/275) V A
1.5 to 24 V DC	12 to 240 V A
1 mA	22 mA
0.001 mA	1.5 mA
0.12 V	1.6 V
ZPRC 6-12-24 V DC	ZPRC 6-12-24 V

1 NO contact
2/20 A
(24/33) V AC DC
1.5 to 24 V DC
1 mA
0.001 mA
0.12 V

230 V DC

5.6 mA DC

72 V DC

 43.000Ω

184 to 264 V D

0.9 W

1 NO contact	
2/40 A	
(240/275) V AC	
12 to 240 V AC	
22 mA	
1.5 mA	
1.6 V	

Individual components, solid-state module
Type/Colour
Cat. no./Qty.
Accessories AQI/PRC external insulated cross-connector
Cat. no./Qty. yellow
Cat. no./Qty. blue
Cat. no./Qty. black
TW/PRC partitions
Cat. no./Qty.
•
PMC labelling/markers
Cat. no./Qty., standard print, see catalog

PSC 1/24 V DC-24 V/2 A/DC 15505.2/10
AQI/PRC/20
15545.8 /1
15545.5 /1

PSC 1/24 V DC-240 V/2A/AC
15504.2 /10

15494.2/10

AQI/PRC/20

15545.8/1

15545.5/1

15545.4/1

TW/PRC

15493.2 /10	_

PSC 1/60 V/DC-24 V/2A/DC

15507.2/10

AQI/PRC/20

15545.8/1

15545.5/1

15545.4/1

ZPRC 220 ... 240 V AC/DC **15493.2**/10

PSC 1/60 V/DC-240 V/2A/AC

15506.2/10

Accessories AQI/PRC external insulated cross-connector
Cat. no./Qty. yellow
Cat. no./Qty. blue
Cat. no./Qty. black
· ·
TW/PRC partitions

TW/PRC
15546.2 /1
PMC BSTR 6/30
CONTA-CONNECT
9106 7/300

15545.4/1

15546.2 /1
PMC BSTR 6/30
CONTA-CONNECT
9106.7 /300
9107.7 /300

·
TW/PRC
15546.2 /1
·
PMC BSTR 6/30
CONTA-CONNECT

AQI/PRC/20
15545.8 /1
15545.5 /1
15545.4 /1
TW/PRC
15546.2 /1
PMC BSTR 6/30
CONTA-CONNECT

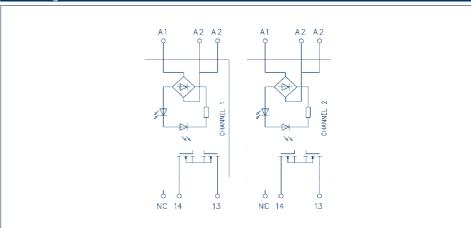
	9106.7 /300 9107.7 /300	9106.7 /300 9107.7 /300
		BWMA 1 3808.0/1

Solid state relay modules CMS-SSR

- Mounts on TS35
- Compact design, width: 17.5 mm
- Electrical isolation
- Input and output screw connection
- Input AC / DC
- Output AC / DC
- AC/AC AC/DC DC/DC DC/AC operation possible
- Max. output current 24 A per channel
- very small output voltage drop



Circuit diagram



TYPE Cat. no./Qty.

Size (L x W x H) with TS 35 x 7.5

Weight

DIN-VDE specifications

Electromagnetic properties

Operating temperature

Storage temperature

Connection type

Connection cross-section

Screw connection

Stripping length

Mounting position

Mounting interval Current on both channels < 32 A

Current on both channels > 32 A

Input data

Channels

Rated voltage Working range DC

Working range AC

Output details per channel

Output

Max. continuous current

Voltage range DC

Voltage range AC

Voltage drop at max. load current Leakage current 25°C

Dielectric strength of control/load circuit

Response time Release time

Max. switching frequency

Indicator

CMS-SSR24A

16038.2 / 1

17.5 x 99 x 114.5 mm

106g

DIN EN 50178:1987; DIN VDE 0110, contamination degree 2, overvoltage category III

EMC Directive 2004/108/EC, in compliance with EN 55011 and EN 61326-1

0 to +50°C

-25 °C to +70°C

Screw connection 0.2–2.5mm²

AWG 22-14

12mm horizontal

0 mm

20 mm

24V AC / DC

9 to 36 V / 10 mA

10 to 26.4 V / 20 mA

1 Normally open contact

24 A

0 to 50 V

0 to 30 V 120 mV

< 60 µA

2.5 kV, 50 Hz, 1 min.

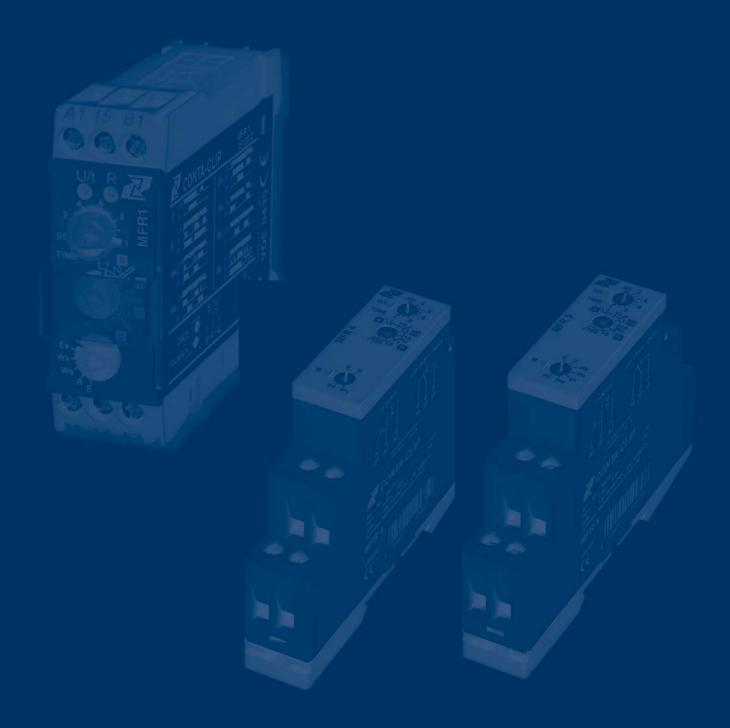
< 15 ms

< 10 ms 2 Hz

yellow LED



Small control tasks often arise in automation engineering applications. These new functional relays were developed in order to accomplish these tasks as simply as possible. The small size and great flexibility of these relays allows them to be used in many different applications.





Multi-function timing relay terminal MFR-PRC

The narrow housing of the new MFR-PRC timing relay allows them to be used in very confined spaces. With their minimal width of only 6.2 mm, they open up new possibilities in designing control schemes. Their relay-terminal design makes them very flexible and gives you enormous potential for savings. The bases are compatible with the PRC relay system and can thus be easily integrated.



MFR 1 | MFR 4 | MFR 5 Multi-functional timing relays

Instead of timing units with only one function, these units offer the affordable possibility to implement several common time functions, such as ON-delay, impulse-ON, impulse-OFF, or pulse-monitoring. They reduce storage costs, since only one unit is needed for all applications.



Clock-pulse generator dual-time relay MFR 6

This functional component is equipped with a definable variable-time flash function. The output relay is controlled in accordance with both set times, until the supply voltage is interrupted. You can select operation - either beginning with pulse or beginning with delay.



TSR 1 | TSR 2 Staircase lighting time-limit switch

Electronic step-light time-limit switches with an advance-OFF warning function are functional relays that are often used in building installations. The device can be turned on by pressing the connected push-button. It can be turned off by holding the push-button down. The set time can be increased greatly by repeatedly pressing a push-button.



USR 1 | USR 2 Undervoltage-monitor relays

The undervoltage monitoring of alternating voltage in 3- or 1-phase supply systems can be accomplished with these functional components. They monitor the power supply and protect motors and other power-consuming modules from the effects of phase errors. Voltages that are too low or loss of phase can lead to system failures and as such represent an enormous potential for danger.



SDSR 1 | SDSR 2 Star-delta switching relays

Star-delta switching is a commonly used function in motor-control engineering. These timing relays were developed in order to accomplish this task as simply as possible. They can be used in different motor types because the transit time is adjustable.



VMR 1 | VMR 2 | VMR 3 Voltage monitoring relays

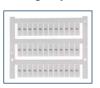
The voltage-monitoring relays conveniently monitor three-phase systems with and without a neutral wire. By precisely capturing characteristic values, they ensure the accessibility and reliability of a facility or machine. And in doing so, they deliver long-term added value. When operating facilities such as pumps and machines, it is critical to monitor the phase sequence, phase loss and asymmetry. Monitoring allows safe operation and prevents damage in a simple and efficient way.

Multi-function timing relay terminal MFR-PRC

The narrow housing of the new MFR-PRC timing relay allows them to be used in very confined spaces. With their minimal width of only 6.2 mm, they open up new possibilities in designing control schemes. Their relay-terminal design makes them very flexible and gives you enormous potential for savings. The bases are compatible with the PRC relay system and can thus be easily integrated. Furthermore, they can be combined with familiar accessories such as jumpers and partitions, and they can be conveniently labelled with the PMC BSTR marking system from CONTA-CLIP.

\ Labeling | Marking

The socket bases have a labeling surface which is optimally suited for our PMC Pocket-Maxicard (PMC BSTR 6/30) standard marking systems. In addition to our large variety of standard labels, CONTA-CLIP can also provide "just-in-time" individual labeling for you.



Using the mount/dismount lever The mounting and dismounting mechanism forms a reliable connection by latching the relay with the socket base. The fitted relay

anism forms a reliable connection by latching the relay with the socket base. The fitted relay can be removed, easily and without force, from the socket base by using the dismount function of the lever!





→ Pluggable relays

Pluggable relays are also available with AgSNO and gold contacts as well as solid-state modules with a variety of voltage inputs and outputs – to fit with the many functions of your individual requirements!





Pluggable external cross-connections

The AQI/PRC pluggable cross-connection system enables a time-saving distribution of potentials. The AQI/PRC is constructed so that it is protected against accidental touch. It is available as a 20-pole unit, in either yellow, blue or black. The cross-connector can be shortened to fewer poles in order to fit the required interface.

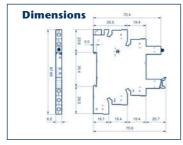
Insulation plating can be used to insulate the ends.

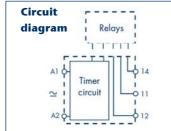


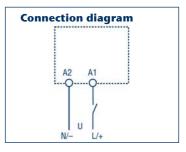
Mounts on standard TS 35 rail CONTA-CLIP relay terminal can be flexibly mounted on standard TS 35 mounting rails according to EN 50035 and EN 50022.









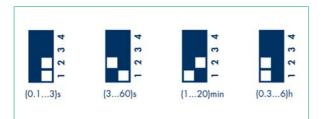


EMC specification

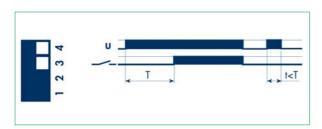
Standard	Test		Voltage
EN 61000-4-2	Electrostatic discharge	Contact discharge	4 kV
	-	Air discharge	8 kV
EN 61000-4-3	Radio frequency electromagnetic field (80 ÷ 1000 MHz)		10 V/m
EN 61000-4-4	Quick transients (bursts) (5-50 nS, 5 kHz) at input terminals		2 kV
EN 61000-4-5	Surge (1.2/50 µs) at input terminals	Common mode	2 kV
		Differential mode	1 kV
EN 61000-4-6	Radio frequency common mode (0.15 ÷ 80 MHz at input terminals)		10 V
EN 55022	Emissions class		Class B

Multi-function timing relay terminal MFR-PRC

Time ranges



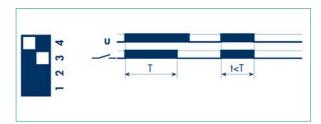
LED	U	Output contact
OFF	OFF	Open
OFF	ON	Open (time running)
ON	ON	Closed



Functions

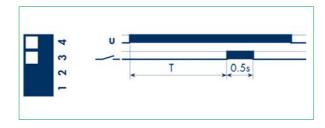
AI: ON delayed

Apply operating voltage to timing relay. The output contacts switch after the set time has expired. Reset takes place after the operating voltage is removed.



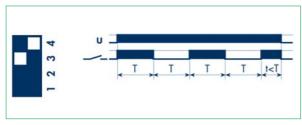
DI: ON pulse

Apply operating voltage to timing relay. The output contacts switch immediately. After the set time, the output contacts switch back.



GI: Fixed pulse (0.5 s) delayed

Apply operating voltage to timing relay. The output contacts switch after the set time has expired. Reset takes place after a fixed time of 0.5 s.



SW: Flashing ON beginning

Apply operating voltage to timing relay. The output contacts switch on immediately and flash at a defined interval until the input voltage is turned off.

The time interval is 1:1 (time on = time off).

U = supply voltage
--- = output contact

Multi-function timing relay terminal MFR-PRC

Screw-connection relay terminals

- consisting of:
 Basic terminal and pluggable relay
 Mount on TS 35





MFR PRCU 1/24 V AC/DC



Туре	MFR PRCU 1/12 V AC/DC	MFR PRCU 1/24 V AC/DC
Cat. no./Qty.	15952.2/1	15953.2/1
Size (L x W x H) TS 35	93 x 6.2 x 79.9 mm	93 x 6.2 x 79.9 mm
Weight	36 g	36 g
Operating voltage	12 V AC/DC	24 V AC/DC
Individual parts		
Socket base		
Туре	MFR PRC 12-24 V AC/DC	MFR PRC 12-24 V AC/DC
Cat. no./Qty.	15951.2 /10	15951.2 /10
Weight	30 g	30 g
Mounting foot for DIN rails	TS 35	TS 35
Functions		
	Al: ON delayed	Al: ON delayed
	DI: ON pulse	DI: ON pulse
	GI: Fixed pulse (0.5s) delayed	GI: Fixed pulse (0.5s) delayed
	SW: Flashing (ON beginning)	SW: Flashing (ON beginning)
Time delay range	(2.1.2.3	
Time weary range	(0.1-3) s, (3-60) s, (1-20) min, (0.3-6) h	(0.1-3) s, (3-60) s, (1-20) min, (0.3-6) h
Displays	(0.1. 3) 3) (3 00) 3) (1 20) 11111 (0.13 0) 11	(611 5) 5) (5 66) 5) (1 25) 11111) (615 5) 11
Dispiays	LED = Position of output relay	LED = Position of output relay
Connection data	EED = 1 osition of output relay	LED = rosition of output relay
Connection type	Screw connection	Screw connection
Insulation stripping length	10 mm	10 mm
Tightening torque	0.5 Nm	0.5 Nm
Max. connection cross-section, solid flexible	1x2.5/2x1.5 1x2.5/2x1.5 mm ²	1x2.5/2x1.5 1x2.5/2x1.5 mm ²
Screw connection	1x14/2x16 1x14/2x16 AWG	1x14/2x16 1x14/2x16 AWG
Input data	1711/2710 1711/2710744	TATTI ZATO TATTI ZATO AWG
Rated operating voltage	12 V AC/DC	24 V AC/DC
	0.5 W	0.5 W
Rated output	9.6 – 26.4 V AC/DC	9.6 – 26.4 V AC/DC
Operating voltage range	9.0 – 20.4 V AC/DC	9.0 – 20.4 V AC/DC
Power loss	0.1 W	0.1 W
Without contact current	0.6 W	0.6 W
With rated contact current	0.0 W	U.U VV
Technical data	(0.1.3) s (2.60) s (1.20) min (0.2.6) h	(0.1.2) s (3.60) s (1.20) min (0.2.6) h
Time ranges	(0.1-3) s, (3-60) s, (1-20) min, (0.3-6) h ± 1 %	(0.1-3) s, (3-60) s, (1-20) min, (0.3-6) h ± 1 %
Repeat accuracy		
Recovery time	≤ 50 ms	≤ 50 ms
Setting tolerance to end value	± 5 %	± 5 %
Ambient temperature	-40 to +70°C (EMR) / -40 to +55°C (SSR)	-40 to +70°C (EMR) / -40 to +55°C (SSR)
Relay		
Туре	PRC 1/12 V DC	PRC 1/24 V DC
Cat. no./Qty.	15501.2 /10	15502.2 /10
Weight	6 g	6 g
Ratings for plug-relay combined with socket base		

Weight	6 g	6 g
Ratings for plug-relay combined with socket base		
Contacts		
Number of contacts	1 CO contacts	1 CO contacts
Max. continuous current Max. inrush current	6/10 A	6/10 A

Rated voltage Max. switching voltage		
Max. power rating AC 1		
Max. power rating AC 15 (230 V AC)		
1-phase motor load, AC 3 operation (230 V AC)		
Max. switching current DC 1:30/110/220 V		
Min. switching load		
Standard contact material		
Coil		
Rated voltage (UN)		
Power rating AC/DC		

40
Rated voltage (UN)
Power rating AC/DC
Accessories external insulated cross-connector AQI/PRC
Cat. no./Qty., yellow
Cat. no./Qty., blue

cut. 1101, Qty., blac
Cat. no./Qty., black
Partition TW/PRC
Cat. no./Qty.per pack
Labeling/markers PMC
Cat. no./Qty.per pack, standard print, see catalog
Cat. no./Qty., blank
Cat. no./Qty., special print
Tool / screwdriver SDB
Cat. no./Qty.per pack

CO contacts	1
5/10 A	6
250/400 V AC*	2
,500 VA	1
000 VA	3
).185 kW	(
5/0.2/0.12 A	6
300 (5/5) mW (V/mA)	3
agNi	1
2 V AC/DC	2
0.2 W	(

300 (5/5) mW (V/mA)	
AgNi	
12 V AC/DC	
0.2 W	
AQI/PRC/20	
15545.8 /1	
15545.5 /1	
15545.4 /1	
TW/PRC	
15546.2 /1	
MC BSTR 6/30	
CONTA-CONNECT	
9106.7 /300	
9107.7 /300	
SDB 0,6 x 3,5	

1 CO contacts
6/10 A
250/400 V AC*
1,500 VA
300 VA
0.185 kW
6/0.2/0.12 AA
300 (5/5) mW (V/mA)
AgNi

24 V AC/DC	
0.2 W	
AQI/PRC/8	
15545.8 /1	
15545.5 /1	
15545.4 /1	
TW/PRC	
15546.2 /1	
MC BSTR 6/30	
CONTA-CONNECT	
9106.7 /300	
9107.7 /300	
SDB 0,6 x 3,5	
1086.0 /1	

^{*}The conditions of pollution degree 2 are fulfilled at 400 V.

Multi-function timing relay terminal MFR-PSC

Cat. no./Qty., special print

Tool / screwdriver SDB

Cat. no./Qty.per pack

Screw-connection solid-state terminals MFR PSCU 1/24V DC/24V DC MFR PSCU 1/24V DC/240V DC consisting of: · Basic terminal and pluggable solid state module · Mount on TS 35 MFR PSCU 1/24V DC/24V DC MFR PSCU 1/24V DC/240V DC Type Cat. no./Qty **15954.2**/1 **15955.2**/1 Size (L x W x H) TS 35 93 x 6.2 x 79.9 mm 93 x 6.2 x 79.9 mm Weight 36 g 36 g 24 V AC/DC 24 V AC/DC Rated operating voltage Individual parts Socket base MFR PRC 12-24V AC/DC MFR PRC 12-24V AC/DC Type Cat. no./Qty **15951.2**/10 **15951.2**/10 Mounting foot for DIN rails TS 35 TS 35 Functions AI: ON delayed AI: ON delayed DI: ON pulse DI: ON pulse GI: Fixed pulse (0.5 s) delayed GI: Fixed pulse (0.5 s) delayed SW: Flashing (ON beginning) SW: Flashing (ON beginning) Time delay range (0.1-3) s, (3-60) s, (1-20) min, (0.3-6) h (0.1-3) s,(3-60) s,(1-20) min,(0.3-6) h Displays LED = Position of output relay LED = Position of output relay Connection data Screw connection Connection typ Screw connection Insulation stripping length 10 mm 10 mm 0.5 Nm 0.5 Nm Tightening torque 1x2.5/2x1.5 | 1x2.5/2x1.5 mm² 1x2.5/2x1.5 | 1x2.5/2x1.5 mm² Max. connection cross-section, solid | flexible 1x14/2x16 | 1x14/2x16 AWG 1x14/2x16 | 1x14/2x16 AWG Input data 12 V AC/DC 24 V AC/DC Rated output 0.5 W 0.5 W 9.6 - 26.4 V AC/DC 9.6 - 26.4 V AC/DC Operating voltage range Power loss 0.1 W 0.1 W Without contact current 0.5 W 0.5 W Technical data (0.1-3) s, (3-60) s, (1-20) min, (0.3-6) h (0.1-3) s, (3-60) s, (1-20) min, (0.3-6) h Time ranges Repeat accuracy Recovery time ≤ 50 ms ≤ 50 ms ± 5 % Setting tolerance to end value + 5 % -40 to +70°C (EMR) / -40 to +55°C (SSR) -40 to +70°C (EMR) / -40 to +55°C (SSR) Solid-state module PSC 1/24V DC-24 V/2 A/DC PSC 1/24V/DC-240 V/2 A/AC **15505.2**/10 **15504.2**/10 Cat. no./Qty 6 q 6 q Ratings for solid-state module combined with socket base 1 NO 1 NO Max. continuous current | Max. inrush current (10 ms) 2/20 A Rated voltage | Max. reverse voltage (24/33) V AC DC (240/275) V AC Switching load-voltage range 1.5 to 24 V DC 12 to 240 V AC Min. switching current 1 mA 22 mA Max. residual current at 55°C 0.001 mA 1.5 mA Max. voltage drop at 20°C and rated current 0.12 V 1.6 V Accessories external insulated cross-connector AQI/PRO AQI/PRC/20 AQI/PRC/20 15545.8/1 Cat. no./Qty., blue 15545.5/1 15545.5/1 Cat. no./Qty., black 15545.4/1 15545.4/1 Partition TW/PRC TW/PRC TW/PRC Cat. no./Qty.per pac **15546.2**/1 Labeling/markers PMC MC BSTR 6/30 MC BSTR 6/30 Cat. no./Qty.per pack, standard print, see catalog Cat. no./Qty., blank 9106.7/300 **9106.7**/300

9107.7/300

SDB 0,6 x 3,5

9107.7/300

SDB 0,6 x 3,5

Multi-functional timing relays MFR

MFR 1 | MFR 4 | MFR 5

Specifications

Mechanical design

- Mount on TS 35
- Housing made of self-extinguishing plastic, IP40 protection
- · Any mounting position possible
- Screw connections protected against accidental touch, according to VBG 4, IP20 protection

Screw connection

- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- · Tightening torque max. 1 Nm

Description of function

- The module must be disconnected from the power supply before selection of the timing function
- Please refer to data sheet or information printed on the module for a complete list of the various module functions

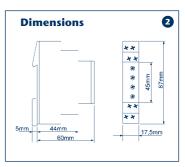
ON delay (E)

The set time t begins to run with the application of the supply voltage U. The green LED U/t flashes. After the time t has passed (the green LED U/t is lit), the output relay R goes on (yellow LED lit). This status is maintained until the supply voltage is interrupted. If the supply voltage is interrupted before the expiration of the time t, then the expired time is deleted and the time starts anew when the supply voltage is reapplied.

Impulse-ON with control contact (Ws)

The supply voltage U must constantly be applied to device (green LED U/t is lit). The output relay R activates (yellow LED lit) when the control contact S closes, and the set time t begins (green LED U/t flashes). After the time t has passed (green LED U/t is lit), the output relay deactivates (yellow LED not lit up). The control contact can be switched while the time is running. A further cycle can be started only when the currently running cycle is closed.

Dimensions 5 65 mm 70 mm 22.5 mm



Environmental conditions Ambient temperature -25 to +55°C (acc. to IEC 68-1) -25 to +40°C (UL 508) Storage temperature -25 to +70°C Transport temperature -25 to +70°C Relative humidity 15% to 85% (acc. to IEC 721-3-3 Class 3K3) Pollution degree 3 (acc. to IEC 664-1) Vibration resistance 10 to 55 Hz 0.35 mm (acc. to IEC 68-2-6)

15 g 11 ms (acc. to IEC 68-2-27)

ON-delay with control contact (Es)

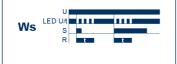
Shock resistance

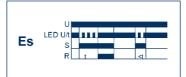
The supply voltage U must constantly be applied to device (green LED U/t is lit). The set time t begins when the control contact S is closed. The green LED U/t flashes. The output relay R activates (yellow LED is lit) after the expiration of the time t (green LED U/t is lit). This status is maintained until the control contact is opened. If the control contact is opened before the expiration of the time t, then the expired time is deleted and the time starts anew with the next cycle.

Flasher begin with delay (Bp)

The set time t begins to run with the application of the supply voltage U. The green LED U/t flashes. After the time t has passed, the output relay R goes on (the yellow LED lights up), and the set time t begins again. After the time t has passed, the output relay deactivates (yellow LED not lit). The output relay is controlled in a 1:1 ratio until the supply voltage is interrupted.









OFF-delay with control contact (R)

The supply voltage U must constantly be applied to device (green LED U/t is lit). The output relay R activates (yellow LED lit) when the control contact S closes. The set time t begins to run when the control contact S is opened. The green LED U/t flashes. The output relay R deactivates (yellow LED not lit) after the expiration of the time t (green LED U/t is lit). If the control contract is closed again before time t is expired, then the expired time is deleted and the time starts anew with the next cycle.

Impulse-OFF with control contact (Wa)

The supply voltage U must constantly be applied to device (green LED U/t is lit). The closure of control contact S has no influence on the positioning of the output relay R. When the control contact opens, the output relay activates (yellow LED is lit) and the set time t begins to run (green LED U/t flashes). The output relay R deactivates (yellow LED not lit) after the expiration of the time t (green LED U/t is lit). The control contact can be switched while the time is running. A further cycle can be started only when the currently running cycle is closed.

Impulse-ON voltage controlled (Wu)

The output relay R is activated (yellow LED lit) when the supply voltage is applied. The set time then begins to run (green LED U/t flashes). The output relay deactivates (yellow LED not lit) after the expiration of the time t (green LED U/t is lit). This status is maintained until the supply voltage is interrupted. If the supply voltage is interrupted before the time t expires, the the output relay is deactivated. The time that has already expired is deleted and when the supply voltage is re-applied the time is started anew.

Pulse monitoring (Wt)

The output relay R activates (yellow LED is lit) after the supply voltage is applied (green LED U/t is lit). The set time t begins when the control contact S is closed. The green LED U/t flashes. In order to keep the output relay activated, the control contact must be opened and then closed during the set time t. If this does not occur, the output relay is deactivated, and all further pulses to the control contact are ignored. In order to re-start this function, the supply voltage must be interrupted and reapplied.















2. 3

65 g

Width 17.5 mm

50 ms to 100 h

A1(+)-A2(-)

Green LED U/t ON*

Green LED U/t flashes* Yellow LED R ON/OFF*

12 to 240 V AC/DC terminals

12 V -10% to 240 V +10%

Installation design

E, R, Ws, Wa, Es, Wu, Bp*

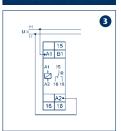
Connection diagram s 87 x 17.5 x 67.5 mm A1 15 B1 • A1 15 Timing relay R Multi-functiona 7 functions A2 16 18 7 time delay ranges Wide-range input 1 CO contact

0 16 18 A2

With control contact



Without control contact



5677.2 /1	
. 3	

87 x 17.5 x 67.5 mm

65 g Multi-functiona 4 functions 7 time delay ranges

Wide-range input 1 CO contact Width 17.5 mm Installation design

E, R, Wu, Bp* 50 ms to 100 h

Green LED U/t ON*

Green LED U/t flashes* Yellow LFD R ON/OFF*

24 to 240 V AC/DC terminals A1(+)-A2(-)

24 V -15 % to 240 V +10%

48 to 63 Hz

4 VA (1.5 W)

100 % 100 ms 10 % > 30% of the min. Supply voltage III (acc. to IEC 664-1) 4 kV

1 pote 250 V AC 2000 VA (8 A/250 V AC) 2000 VA (8 A/250 V AC) 8 A fast 20 x 10⁶ switching cycles 2 x 10⁵ switching cycles at 1000 VA* Max. 60/min at 100 VA* Max. 6/min at 1000 VA* (acc. to IEC 947-5-1) 250 VAC (acc. to IEC 664-1) III (acc. to IEC 664-1)

Non-floating, terminals A1-B1

4 kV

Automatically adjusted to supply voltage

DC 50 ms/AC 100 ms ± 1% (from scale reading) ≤ 5% (from scale reading) < 0.5% or ± 5 ms ≤ 0.01% /°C

48 to 63 Hz 4 VA (1.5 W)

> 30% of the min.

100 %

10 %

4 kV

100 ms

Supply voltage III (acc. to IEC 664-1) 4 kV 1 potential-free CO contact 250 V AC 2000 VA (8 A/250 V AC) 2000 VA (8 A/250 V AC) 8 A fast 20 x 10⁶ switching cycles 2 x 10⁵ switching cycles at 1000 VA* Max. 60/min at 100 VA* Max. 6/min at 1000 VA* (acc. to IEC 947-5-1)

250 VAC (acc. to IEC 664-1) III (acc. to IEC 664-1)

Non-floating, terminals A1-B1

Automatically adjusted to supply voltage 10 m DC 50 ms/AC 100 ms

± 1% (from scale reading) ≤ 5% (from scale reading) < 0.5% or ± 5 ms

Output circuit ≤ 0.01 % /°C

Legend:

R OFF-delay* Ws Impulse-ON* Ws Impulse-ON*
Wa Impulse-OFF*
Es ON-delay*
Wu Impulse-ON
Voltage controlled
Bp Flasher begin with delay Wt Pulse monitoring *with control contact

Green LED U/t ON: Supply voltage applied

Green LED U/t flashing: Indicates timing period Yellow LED R ON/OFF: Position of output rela

Clock-pulse generator dual-timing relays MFR

MFR 6

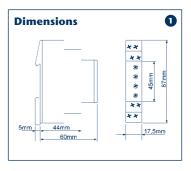
Specifications

Mechanical design

- Mount on TS 35
- Housing made of self-extinguishing plastic, IP40 protection
- · Any mounting position possible
- Screw connections protected against accidental touch, according to VBG 4, IP20 protection

Screw connection

- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- Tightening torque max. 1 Nm



Environmental conditions		
Ambient temperature	-25 to +55°C (acc. to IEC 68-1)	
	-25 to +40°C (UL 508)	
Storage temperature	-25 to +70°C	
Transport temperature	-25 to +70°C	
Relative humidity	15% to 85% (acc. to IEC 721-3-3 Class 3K3)	
Pollution degree	3 (acc. to IEC 664-1)	
Vibration resistance	10 to 55 Hz 0.35 mm (acc. to IEC 68-2-6)	
Shock resistance	15 g 11 ms (acc. to IEC 68-2-27)	

Description of function

Pulsed begin with delay (Ip)

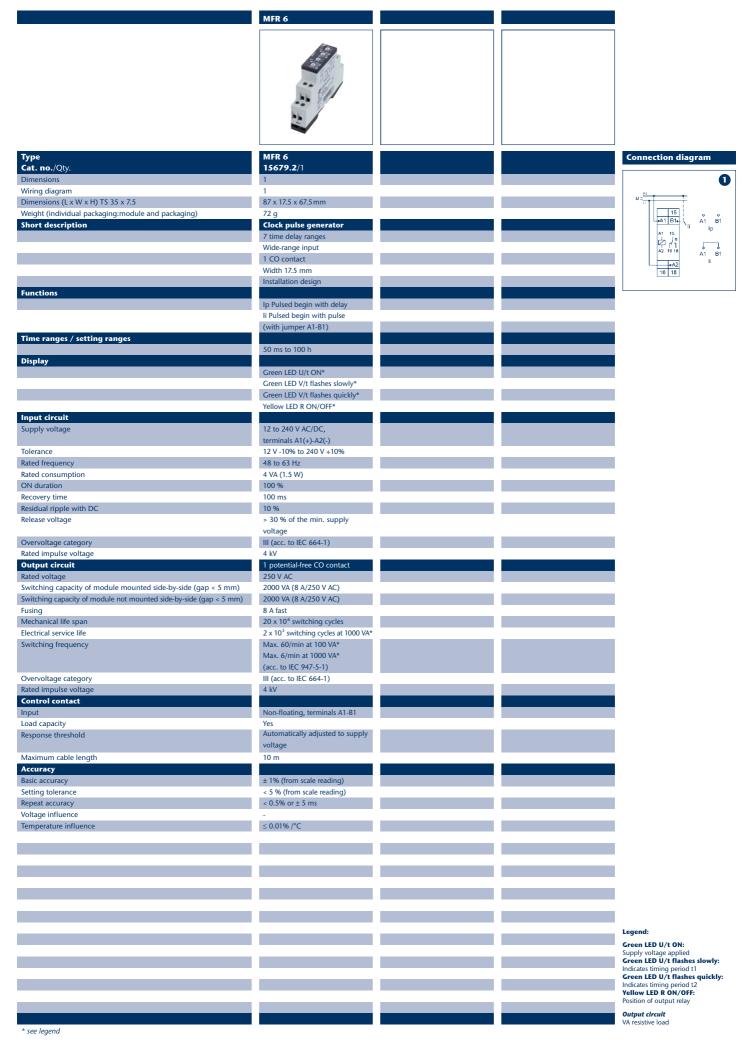
The set time t1 begins to run with the application of the supply voltage U. (The green LED U/t flashes slowly.) After the time t1 expires, the output relay R activates (yellow LED is lit), and the time t2 begins to run (green LED U/t flashes quickly). After the time t2 has expired, the output relay deactivates (yellow LED not lit). The output relay is controlled in accordance with both set times- until the supply voltage is interrupted.

Pulsed begin with pulse (li)

The output relay R is activated (yellow LED lit) when the supply voltage U is applied. The set time t1 then begins to run (green LED U/t flashes slowly). After the time t1 has expired, the output relay is deactivated (yellow LED not lit), and the set time t2 begins to run (green LED flashes quickly). After the time t2 has expired, the output relay re-activates (yellow LED is lit). The output relay is controlled in accordance with both set times- until the supply voltage is interrupted.







Staircase lighting time-limit switch TSR

TSR 1 | TSR 2

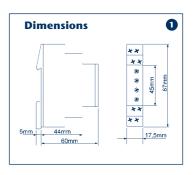
Specifications

Mechanical design

- Mount on TS 35
- · Housing made of self-extinguishing plastic, IP40 protection
- · Any mounting position possible
- Screw connections protected against accidental touch, according to VBG 4, IP20 protection

Screw connection

- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- Tightening torque max. 1 Nm



Environmental conditions	
Ambient temperature	-25 to +55°C (acc. to IEC 68-1)
	-25 to +40°C (UL 508)
Storage temperature	-25 to +70°C
Transport temperature	-25 to +70°C
Relative humidity	15% to 85% (acc. to IEC 721-3-3 Class 3K3)
Pollution degree	3 (acc. to IEC 664-1)
Vibration resistance	10 to 55 Hz 0.35 mm (acc. to IEC 68-2-6)
Shock resistance	15 g 11 ms (acc. to IEC 68-2-27)

Description of function

Electronic staircase lighting time-limit switches with an advance-OFF warning function. The control input allows for a connection of push-buttons with up to a total of 100 mA glow-lamp current. It can be used in three- or four-cable circuits. The device can be retriggered by pressing the connected push-buttons or turned off by pressing down for a longer time on the push-button (energy-saving function). Rapid multiple pressing ("pumping") of the button extends the interval by the set time t. Depending on the design version, the following operating modes can be selected with the front control unit:

The automatic timing function (T, TW)

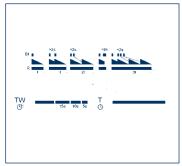
After pressing the button B1, the output relay R closes (terminals L-18) and the set time t begins to run. If the button is pressed again before the time t expires, then the time begins anew (the re-start function complies with EN 60669-2-3). Quick multiple pressing of the button (pumping) adds two, three, or more intervals to extend the time up to 60 minutes. Prolonged pressing of the button (more than two seconds) then aborts the running interval, and the relay turns off (energy saving function). The TW mode the device provides a switch-off warning (complies with DIN 180-15-2) by generating short pulses (flashes) at 30, 15, and 5 seconds before switch-off.

Operational possibilities with B1 in automatic timing

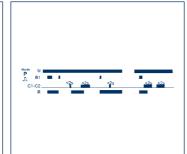
The additional control inputs C1-C2 is used in the T and TW modes to control the staircase lighting timer using a voltage from 8 - 230 V AC/DC. This input can be used to start and restart the time cycle. It can not be used for switch-off (energy saving) or for programming longer intervals (pumping).

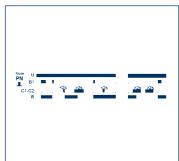
Impulse switch mode (P), (PN)

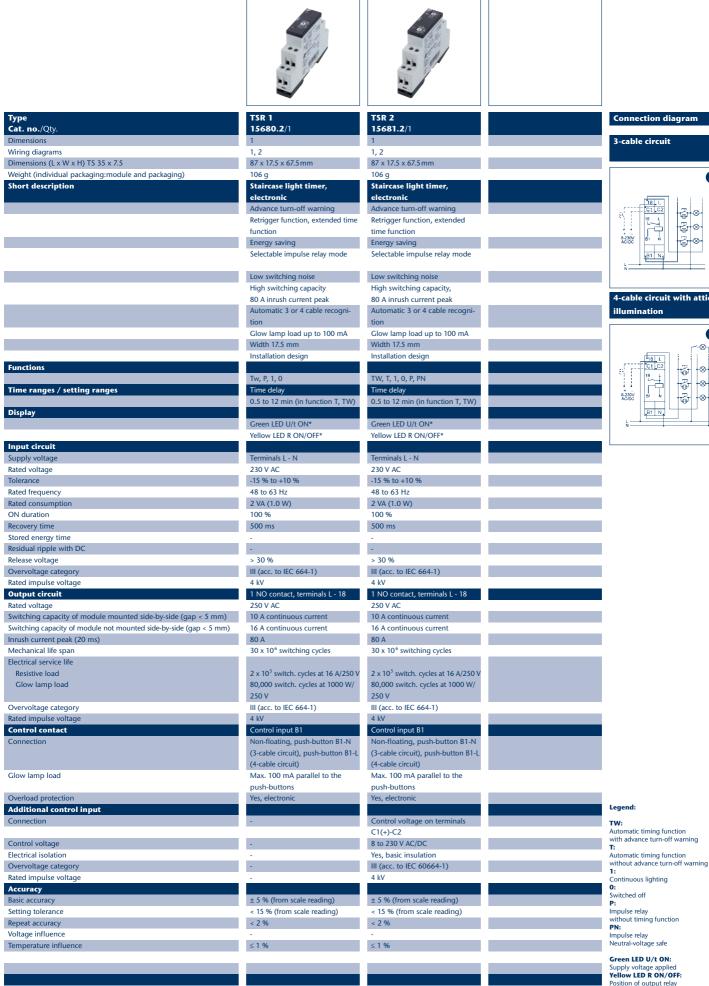
In impulse switch mode, every button press (on B1) switches (toggles) the output relay T. In the P function, the output relay R remains in the off-position when the supply voltage is applied. In the PN function, the output relay R switches to on-position immediately after the supply voltage is applied, if the relay was on before the last power stoppage. The output relay R switches to on-position (central ON), if a short (< 2 sec.) voltage impulse is applied to the additional control input C1-C2. A longer voltage impulse (> 2 sec.) turns off the output relay R (central OFF).







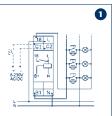




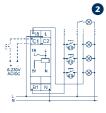
TSR 2

Connection diagram

3-cable circuit



4-cable circuit with attic illumination



^{*} see legend

Undervoltage monitoring relays USR

USR 1 | USR 2

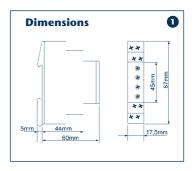
Specifications

Mechanical design

- Mount on TS 35
- Housing made of self-extinguishing plastic, IP40 protection
- Any mounting position possible
- Screw connections protected against accidental touch, according to VBG 4, IP20 protection

Screw connection

- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- Tightening torque max. 1 Nm



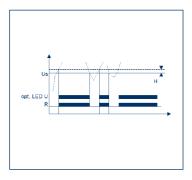
Environmental conditions	
Ambient temperature	-25 to +55°C (acc. to IEC 68-1)
	-25 to +40°C (UL 508)
Storage temperature	-25 to +70°C
Transport temperature	-25 to +70°C
Relative humidity	15% to 85% (acc. to IEC 721-3-3 Class 3K3)
Pollution degree	3 (acc. to IEC 664-1)
Vibration resistance	10 to 55 Hz 0.35 mm (acc. to IEC 68-2-6)
Shock resistance	15 g 11 ms (acc. to IEC 68-2-27)

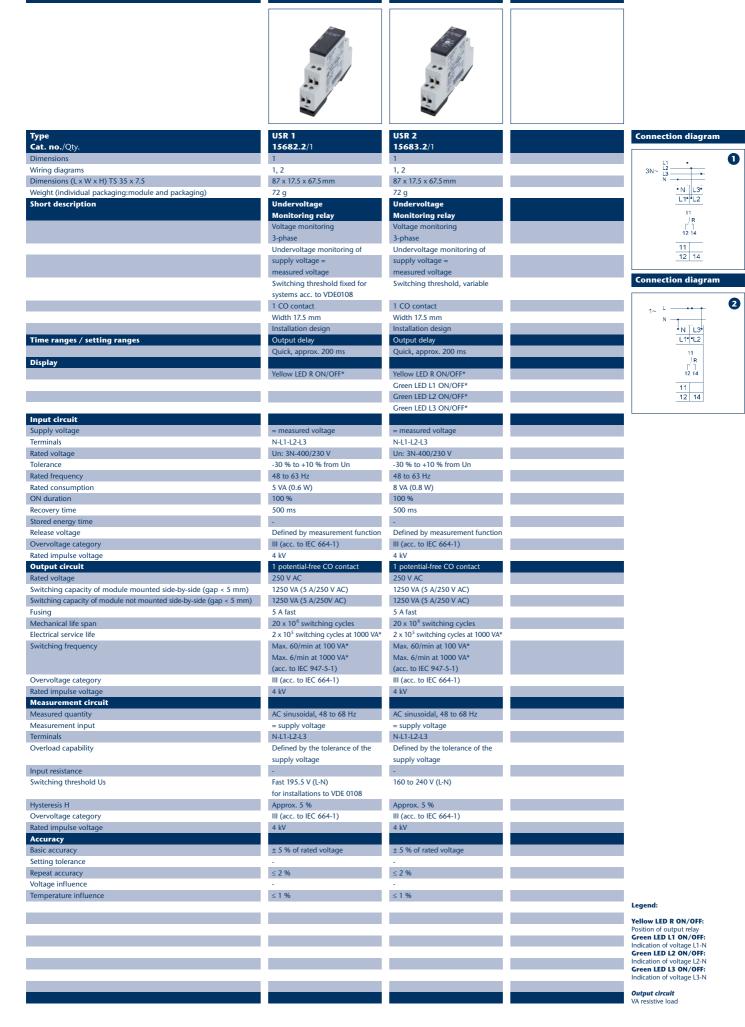
Description of function

Undervoltage monitoring for three-phase AC mains with a fixed (UFR 1) or variable (UFR 2) switching threshold, and a fixed hysteresis. All measuring inputs (L1, L2, and L3) must each be connected to a phase voltage. If three-phase measurements are not desired, then multiple measurement inputs should be connected to one phase, so that all inputs have the appropriate voltage applied. If the reverse voltage coming from the load exceeds the threshold Us, then a phase failure can not be detected.

Undervoltage monitoring without the optional time function

The output relay activates (yellow LED lit) when the measured voltage of all connected phases exceeds the threshold Us by more than the hysteresis. When the voltage of one of the connected phases falls below the fixed threshold value, the output relay is deactivated (yellow LED not lit).





USR 2

USR 1

Star-delta switching relays SDSR

SDSR 1 | SDSR 2

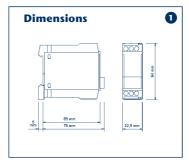
Specifications

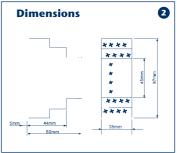
Mechanical design

- Mount on TS 35
- Housing made of self-extinguishing plastic, IP40 protection
- · Any mounting position possible
- Screw connections protected against accidental touch, according to VBG 4, IP20 protection

Screw connection

- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- Tightening torque max. 1 Nm

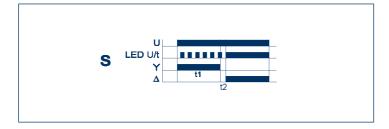


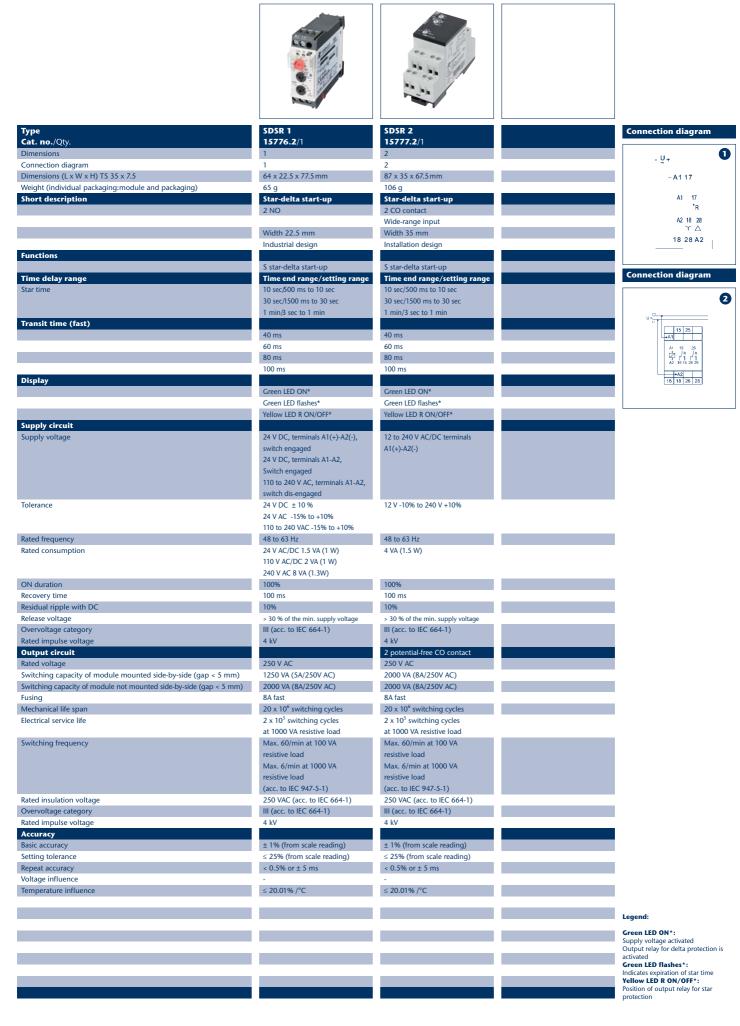


Environmental conditions		
Ambient temperature	-25 to +55°C (acc. to IEC 68-1)	
	-25 to +40°C (UL 508)	
Storage temperature	-25 to +70°C	
Transport temperature	-25 to +70°C	
Relative humidity	15% to 85% (acc. to IEC 721-3-3 Class 3K3)	
Pollution degree	2, in installed condition 3	
	(acc. to IEC 664-1)	
Vibration resistance	10 to 55 Hz 0.35 mm (acc. to IEC 68-2-6)	
Shock resistance	15 g 11 ms (acc. to IEC 68-2-27)	

Description of function

When supply voltage U is applied, the output relay for the star protection activates (yellow LED is lit), and the set star time (t1) begins to run (green LED U/t flashes). After the star time expires (green LED U/t is lit), the output relay for the star protection is deactivated (yellow LED is not lit), and the set transit time (t2) begins to run. After the transit time expires, the output relay for the delta protection activates. In order to re-start this function, the supply voltage must be interrupted and re-applied.





SDSR 2

SDSR 1

VMR 1 | VMR 2

The new voltage-monitoring relays conveniently monitor three-phase systems with and without a neutral wire. By precisely capturing characteristic values, they ensure the accessibility and reliability of a facility or machine.

And in doing so, they deliver long-term added value. When operating facilities such as pumps and machines, it is critical to monitor the phase sequence, phase loss and asymmetry. Monitoring allows safe operation and prevents damage in a simple and efficient way. The power for the devices is supplied from the monitored measurement circuit. Thus the relays can easily and punctually record any irregularities in the three-phase supply systems, such as single-phase operations resulting from mains malfunctions which can lead to overheated motors. They notify of the need for maintenance or repair steps before further costs are incurred.

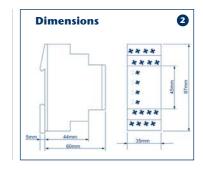
Application areas:

- Monitoring the connection for mobile equipment (construction equipment, agricultural devices, refrigerated vehicles)
- For the protection of people and facilities monitoring for reversal of rotation direction (for hoisting equipment, conveyor systems, elevators, escalators, etc.)
- Monitoring of sensitive systems
- Protection from the effects of passing temporary loads (loss of phase)
- · Switching from normal to spare systems

Screw connection

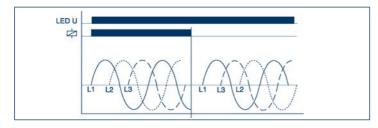
- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- Tightening torque max. 1 Nm

Dimensions



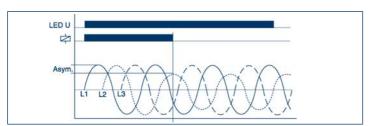
Environmental conditions		
Ambient temperature	-25 to +55°C (acc. to IEC 68-1)	
	-25 to +40°C (UL 508)	
Storage temperature	-25 to +70°C	
Transport temperature	-25 to +70°C	
Relative humidity	15 % to 85 % (acc. to IEC 721-3-3 Class 3K3)	
Pollution degree	3 (acc. to IEC 664-1)	
Vibration resistance	10 to 55 Hz 0.35 mm (acc. to IEC 68-2-6)	
Shock resistance	15 g 11 ms (acc. to IEC 68-2-27)	

Description of function



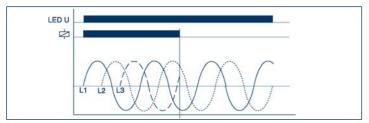
Monitoring of phase sequence

If all phase are connected correctly and the voltage asymmetry is smaller than the defined set value, then the output relay R activates (yellow LED illuminated). If the rotational direction of the phase sequence changes, then the output relay R deactivates (yellow LED not illuminated).



Monitoring asymmetry

The output relay R is deactivated (the yellow LED is not illuminated) when the asymmetry exceeds the set value on the ASYM controller. The shut-off also takes place when the asymmetry is caused by inverse voltage from motors running on two phases.



Monitoring for loss of phase

In the event of a phase loss, the output relay R deactivates (yellow LED is not illuminated).

VMR 1 VMR 2 Mount on TS 35 Housing made of self-extinguishing plastic, IP40 protection Any mounting position possible Screw connection terminals protected against accidental touch, acc. to VBG 4 IP 20 protection Connection diagram VMR 2 Cat. no./Qty **15957.2**/1 15956.2/1 Connection diagram 87 x 17.5 x 67.5 mm 87 x 35 x 67.5 mm Dimensions (L x W x H) TS 35 x 7.5 Weight (individual packaging:module and packaging) 110 a 72 a Short description Overvoltage monitoring in three Overvoltage monitoring in three phase systems, monitoring for phase systems, monitoring for phase sequence and loss of phase phase sequence and loss of phase Monitoring for asymmetrical con-Monitoring for asymmetrical nection of the neutral wire is connection of the neutral wire is optional; supply voltage optional; supply voltage Connection diagram = measuring-circuit voltage = measuring-circuit voltage 1 CO contacts 2 CO contacts Width: 17.5 mm Width: 35 mm 3N~ Installation design Installation design Functions Monitoring asymmetry Monitoring asymmetry Monitoring for loss of phase Monitoring for loss of phase Time delay range Displays Green LED ON Position of output relay Position of output relay Yellow LED ON/OFF 1 min/3 s to 1 min 1 min/3 s to 1 min Supply circuit (N)-L1-L2-L3 (N)-L1-L2-L3 Supply volt 3(N)~400/230 V 3(N)~400/230 V Terminals Rated voltage UN -30 % to +30 % of UN -30 % to +30 % 8 VA (0.8 W) 11 VA (1.2 W) Tolerance Rated consumption AC 48 to 63 Hz AC 48 to 63 Hz Rated frequency 100 % 100 % Power-on duration 500 ms 500 ms Recovery time Stored energy tim >20 % of supply voltage >20 % of supply voltage III (acc. to IEC 60664-1) III (acc. to IEC 60664-1) Release voltage Overvoltage category Rated impulse voltage Output circuit 1250 VA (5 A/250 V AC) Rated voltage 1250 VA (5 A/250 V AC) Switching capacity 5 A fast 5 A fast 20 x 10⁶ switching cycles 20 x 10⁶ switching cycles Fusing Mechanical life span 2 x 105 switching cycles 2 x 105 switching cycles at 1000 VA resistive load at 1000 VA resistive load Electrical life span Max. 60/min at 100 VA resistive load Max. 60/min at 100 VA resistive load Switching frequency Max. 6/min at 1000 VA resistive load Max. 6/min at 1000 VA resistive load (acc. to IEC 947-5-1) (acc. to IEC 947-5-1) III (acc. to IEC 60664-1) III (acc. to IEC 60664-1) Overvoltage category 4 kV 6 kV Rated impulse voltage Measurement circuit Measured valu Measurement input (N)-L1-L2-L3 (N)-L1-L2-L3 Terminals Def. by tolerance of supply voltage Def. by tolerance of supply voltage Overload capability Input resistance 5 % – 25 % 5 % – 25 % III (acc. to IEC 60664-1) III (acc. to IEC 60664-1) Overvoltage category 4 kV 6 kV Rated impulse voltage Accuracy Basic accuracy Setting tolerance ±2 % ±2 % Repeat accuracy ≤0.05 % / °C ≤0.05 % / °C Voltage influence Temperature influence

0

2

N L3

11

12 14

*N *L1 *L2 *L3

12 14 22 24

12 11 14 24

VMR₃

of phase loss and phase sequence in three-phase and single-phase systems, with adjustable switching thresholds and triggering delay. The monitoring of the phase sequence, and thus the rotational direction of the phase sequence, is a very important function. A drive which is rotating incorrectly can lead to severe machine or system damage. In addition, this

The new VMR 3 voltage-monitoring relay features professional monitoring component can monitor machines for possible surges or dips in the mains voltage. A breakage in a neutral wire can also be quickly, safely, and reliably detected. So the VMR 3 is the compact solution for operating nonstationary machines securely and reliably, with a pluggable power supply from three-phase current.

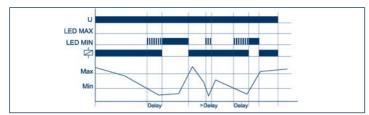
Screw connection

- 1 x 0.5 to 2.5 mm² with/without wire-end ferrules
- 1 x 4 mm² without wire-end ferrules
- 2 x 0.5 to 1.5 mm² with/without wire-end ferrules
- 2 x 2.5 mm² flexible without wire-end ferrules
- Tightening torque max. 1 Nm

0 **Dimensions** * 8 17.5mm

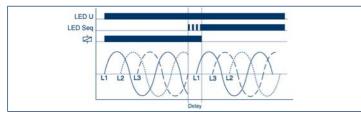
Functional description

During all functions, if the minimum value for the measured voltage has been selected as a larger value than the maximum, then the Min and Max LEDs flash alternately (the relay is in off position). If a system error has occurred when activating the device, then the output relay remains off and the LED for the corresponding threshold illuminates. The device records every phase voltage (L-N) separately and monitors them according to the selection function (UNDER or WINDOW).



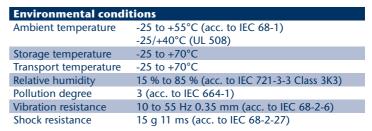
Undervoltage monitoring (UNDER, UNDER+SEQ)

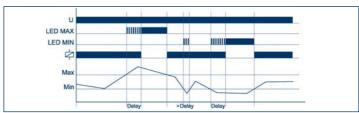
When the measured voltage (one of the phase voltages) falls under the value set at the Min controller, the set triggering delay time begins to run (the red LED Min flashes). The output relay R deactivates (yellow LED not illuminated) after the expiration of the delay time (red LED Min illuminated). If the measured voltage (all phase voltages) exceeds the value set at the Max controller, then the output relay R re-activates (yellow LED illuminated)



Monitoring the phase sequence (SEQ)

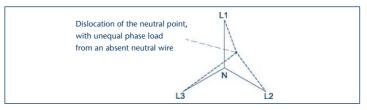
The monitoring of the phase sequence is selectable for all functions. For single-phase circuits, monitoring of the phase sequence must be turned off. When the rotation direction of the phase changes (red LED SEQ illuminated), the output relay R is deactivated (yellow LED not illuminated) after the triggering delay time expires.





Window function (WIN, WIN+SEQ)

The output relay R activates (yellow LED illuminated) when the measured voltage (all phase voltages) exceeds the set value on the Min controller. When the measured voltage (one of the phase voltages) exceeds the value set at the Max controller, the set triggering delay time begins to run (the red LED max flashes). The output relay R deactivates (yellow LED not illuminated) after the expiration of the delay time (red LED Max illuminated). The output relay re-activates (yellow LED illuminated) when the measured voltage once again falls below the maximum value (red LED Max not illuminated). When the measured voltage (one of the phase voltages) falls under the value set at the Min controller, the set triggering delay time begins to run (the red LED Min flashes). The output relay R deactivates (yellow LED not illuminated) after the expiration of the delay time (red LED Min illuminated)



Neutral wire break

The device monitors each phase (L1, L2 and L3) in reference to N. An asymmetrical phase load and a neutral wire breakage in the mains line will result in a dislocation of the neutral point. When one of the phase voltage exceeds the set shutdown threshold (Min or Max), the triggering delay then begins to run (red LED Min or Max flashes). The output relay R deactivates (yellow LED not illuminated) after the expiration of the delay time (red LED Max or Min illuminated)









