

Slipring Columns



Manufactured by **Cavotec Alfo**

Slipring Columns

Who we are

Cavotec is a multi-national group of companies serving the following industries: mining and tunnelling, ports and maritime, steel and aluminium, energy and offshore, airports, general industry and automation. In the early 1960's our main focus was the design and production of motorised cable reels primarily for manufacturers of tower cranes, harbour cranes and mining equipment. Today, Cavotec is connecting mobile equipment around the world in many diverse applications.

Where we are

The Cavotec Group consists of 7 manufacturing "Centres of Excellence" located in Canada, France, Germany, Italy, Norway and Sweden and by 5 local manufacturing units located in Australia, China, Germany and the USA. For the distribution of products and providing support to customers Cavotec has 27 sales companies which, together with a network of distributors, serve more than 30 countries in five continents. The ultimate objective is to be perceived as "local everywhere".

How we work

Our aim is to work closely with our customers in order to build long-term partnerships. To achieve this aim we have created a working environment that attracts the best people, encourages them to stay and brings out their best qualities. By producing totally reliable systems and backing them with efficient service, we strive to create true customer satisfaction.



Cavotec Alfo

Established in 1991, Cavotec Alfo is a modern manufacturing company in the specialised field of spring reels and slipring columns. Thanks to a strong focus on quality design and engineering Cavotec Alfo sliprings provide a high level of reliability and have become a standard for many industry operators. Efficient manufacturing processes allow Cavotec Alfo to offer a wide range of slipring solutions to meet both standard and special requirements at competitive prices and with short delivery times.

Cavotec Alfo sliprings meet all applicable IEC international norms and standards and comply to the latest EU-requirements (CE-marking). All sliprings are protection class IP65/66.

Cavotec Group Organisation

As shown here the Cavotec Group is organized to support its customers around the world through its manufacturing units and sales companies.

Each Cavotec manufacturing company, no matter where it is located, aims at being a market leader in its field by providing innovative and reliable products to Group customers.

Each Cavotec sales company, in the 27 countries where they operate, aims at better serving its local market following the Group philosophy "to be local everywhere".

Manufacturing network

Centres of Excellence

France

Cavotec RMS

Spring Driven Reels

Germany

Cavotec Alfo

Spring Driven Reels

Slipring Columns

Cavotec Fladung

Aircraft Support Systems

Security Systems

Italy

Cavotec Specimas

Motorized Cable Reels

Panzerbelt Cable Protection

Slipring Columns

Norway

Cavotec Micro-control

Radio Remote Controls

Sweden

Cavotec Connectors

Electrical Plugs & Sockets

New Zealand

Cavotec MoorMaster

Automated Mooring Systems

Local Manufacturing

Australia

Cavotec Australia

Motorized Cable Reels

China

Cavotec China

Product Assembly

Germany

Cavotec Micro-control

Radio Remote Controls

Sweden

Cavotec Sweden

Product Assembly

USA

Cavotec USA

Product Assembly

Group Partners

Belgium

Gantry

Crane Rail Systems

Italy

Brevetti Stendalto

Cable Chains

Prysmian (Pirelli)

Flexible Cables

Tratos Cavi

Flexible Cables

Sales network

Cavotec Sales Companies

Cavotec Australia

Cavotec Belgium*

Cavotec BeNeLux

Cavotec Brazil*

Cavotec Canada

Cavotec Chile

Cavotec China

Cavotec Denmark

Cavotec Finland

Cavotec France

Cavotec Germany

Cavotec Hong Kong

Cavotec India

Cavotec Italy

Cavotec Korea

Cavotec Latin America

Cavotec Mexico

Cavotec Middle East

Cavotec Norway

Cavotec Russia*

Cavotec Singapore

Cavotec South Africa

Cavotec Sweden

Cavotec Turkey

Cavotec UK & Ireland

Cavotec USA

* Branch Office

From:	
Date:	Inquiry No
Person in charge:	

To:

Questionnaire for slipring columns

- Which equipment is the slipring column required for?: _____
- ☐ Indoor operation ☐ Outdoor operation, desired protection IP _____
- Installation position: ☐ vertical hanging ☐ horizontal hanging
- Ambient temperature: +..... °C/- °C, further notes:
- Ambient conditions:
(humidity, dust, aggressive media, etc.)
- Working time: ☐ 100% ED ☐ 60% ED ☐ 40% ED ☐ 25% ED
- Revolutions per minute: Revs/min, Performance at a standstill:..... KW in min.
- ☐ with heating ☐ without heating, Voltage V ☐ ~ ☐ =
- Is a tube inserted through the slipring column: ☐ no ☐ yes External ø max mm
- Are there any restrictions of space / max. installation dimensions: ø.....mm, height.....mm
- Power supply voltage V~ Signal and control voltage V... Data voltage V...
- Number of poles and relevant current rating

Power section:	Signal and control section:	Data section / Data type
.....•..... A (..... Kw)	+•.....A +•.....A +•.....A	
.....•..... A (..... Kw)	(mA) (mA) (mA)	

13. Desired conductor cross section:

14.Desired with direct connection:

..... mm ring side, m housing side (brush gear)

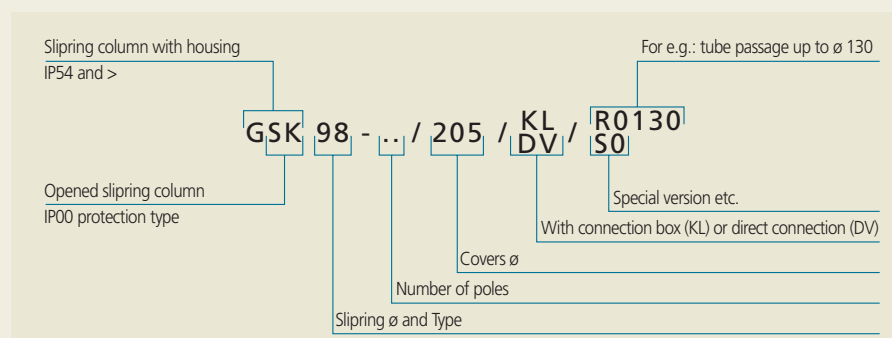
15.Peculiarities / Costumers requests / Sketches

Type overview

Type Families

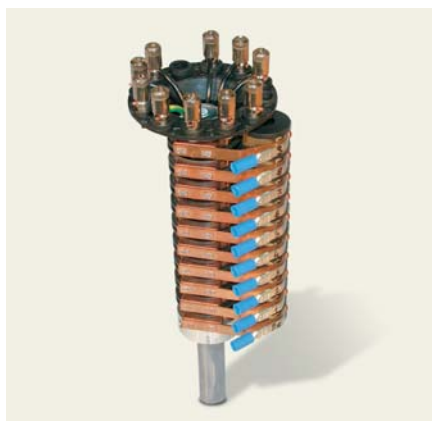
	30	45	47	50	58	59	60	75	80	82	98	02	03	145	190	185	260	275	315	323	400	500	06	07	14	15
		46																								
mA																										
10A																										
16A																										
25A																										
40A																										
50A																										
60A																										
80A																										
90A																										
200A																										
300A																										

Key type example



Slipring type SK/GSK 30

This standard configuration slipring type is ideally suited for low power transmission applications. They are mainly used on small industrial machines and building maintenance units.



SK 30



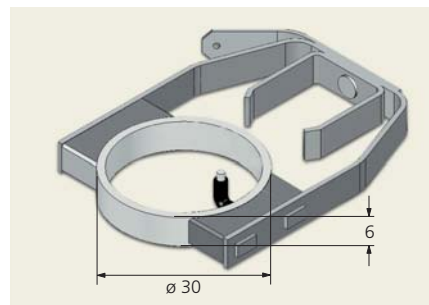
GSK 30

Technical Data

Current rating:	50mA up to 16 A - special version for 1mA up to 50 mA
Max. voltage:	380 V
Max. rpm:	100 min ⁻¹
Max. number of poles:	10
Pole pitch:	12 mm
Slipring Ø:	30 mm
Slipring material:	brass - special version with gold coating
Brush gear:	two springs supported cooper carbon gears (special version with silver carbon) with 4,8mm flat-cable plug connection.
Cable terminal:	standard
Ambient temperature:	-35°C up to 50°C
Cross section:	1,5 mm ²
In conjunction with housing type 110	
Housing:	bottom part made of aluminium, cover made of plastic
Installation position:	vertical, hanging, horizontal
Fixing dimensions (GSK):	Thread M20 or Ø 15 h9
Axis bore:	Ø 12 mm



Pole Assembly SK/GSK 30



Slipring type SK/GSK 45/46

This standard slipring type is ideally suited for low power transmission applications. They are mainly used on small industrial machines and building maintenance units.



SK 45/46



GSK 45/46

SK/GSK 45 Technical Data

Current rating:	0,1 mA up to 25 A - special version for 1mA up to 50 mA
Max. voltage:	415 V~ (750 V~)
Max. rpm:	100 min ⁻¹
Max. number of poles:	18
Pole pitch:	14 mm
Slipring Ø:	45 mm
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears (special version with silver carbon) with 6,3 mm flat-cable plug connection
Cable terminal:	standard
Ambient temperature:	-35°C up to 50°C
Cross section:	2,5 mm ²

In conjunction with housing type 140

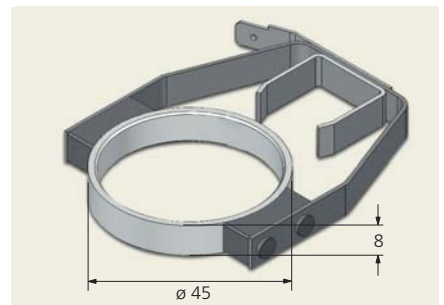
Housing:	bottom part and cover made of plastic with fiber-glass reinforcement
Installation position:	vertical, hanging, horizontal with double bearing
Fixing dimensions (GSK):	circle bore Ø 100/125 (4x Ø13/11)
Axis bore:	Ø 25 mm

SK/GSK 46 Technical Data

Current rating:	50 mA up to 25A
Max. voltage:	415 V~ (750 V~)
Max. rpm:	100 min ⁻¹
Max. number of poles:	12
Pole pitch:	14 mm
Slipring Ø:	45 mm
Slipring material:	brass - special version with gold coating
Brush gear:	two spring supported copper carbon gears (special version with silver carbon) with 6,3 mm flat-cable plug connection
Cable terminal:	standard
Ambient temperature:	-35°C up to 50°C
Cross section:	4 mm ²

In conjunction with housing type 140

Housing:	bottom part and cover made of plastic with fiber-glass reinforcement
Installation position:	vertical, hanging, horizontal with double bearing
Fixing dimensions (GSK):	circle bore Ø 100/125 (4x Ø13/11)
Axis bore:	Ø 25 mm



Pole Assembly SK/GSK 45/46

Slipring type SK/GSK 47

This slipring type is used for applications, such as portal cranes, that need higher power transmission levels.



GSK 47

Technical Data

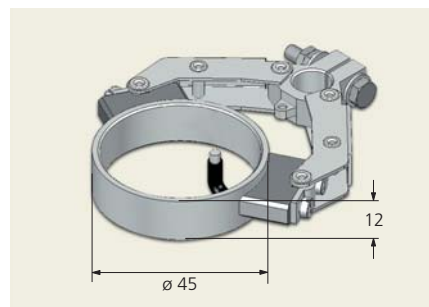
Current rating:	50mA up to 50 A
Max. voltage:	415 V~ (750 V~)
Max. rpm:	200 min ⁻¹
Max. number of poles:	8
Pole pitch:	18 mm
Slipring Ø:	45 mm
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears with M4 screw connection
Cable terminal:	standard
Ambient temperature:	-35°C up to 50°C
Cross section:	6,0 mm ²

In conjunction with housing type 140

Housing:	bottom part and cover made of plastic with fiber-glass reinforcement
Installation position:	vertical, hanging, horizontal with double bearing
Fixing dimensions (GSK):	circle bore Ø 100/125 (4x Ø13/11)
Axis bore:	Ø 25 mm

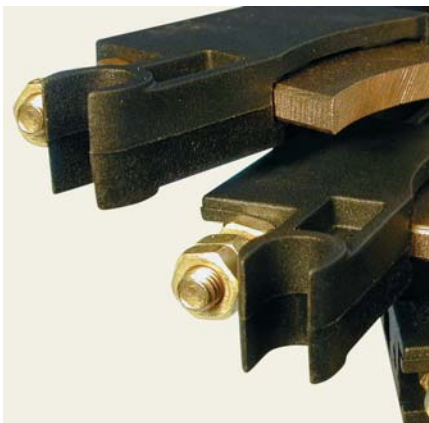


Pole Assembly SK/GSK 47



Slipring type SK/GSK 50

This slipring type has been specially designed for applications that need faster power transmission. These units are often used on industrial applications with limited operating space, such as transport systems.



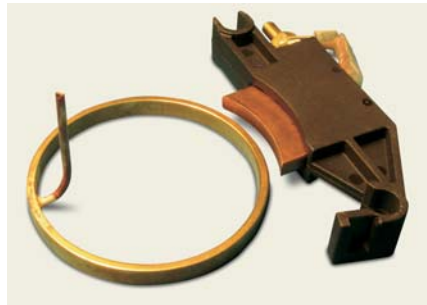
GSK 50

Technical Data

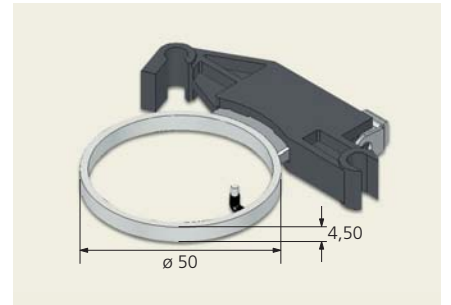
Current rating:	50mA up to 25 A
Max. voltage:	500 V
Max. rpm:	200 min ⁻¹
Max. number of poles:	24
Pole pitch:	6 mm
Slipring Ø:	50 mm
Slipring material:	brass
Brush gear:	spring supported copper carbon gears M4 screw connection
Cable terminal:	standard
Ambient temperature:	-35°C up to 50°C
Cross section:	2,5 mm ²

In conjunction with housing type 125

Housing:	bottom part made of aluminium, cover made of plastic
Installation position:	vertical, hanging, horizontal
Fixing dimensions (GSK):	circle bore Ø 98mm (4x Ø9)
Axis bore:	Ø 25 mm



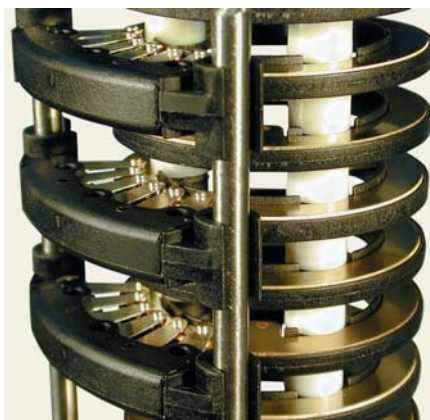
Pole Assembly SK/GSK 50



Slipring type SK/GSK 58

This flat slipring is used for data and power transmission and is known for its reliability thanks to its six-finger contact system. The slipring can be configured for data transmission and additional surface treatment such as gold coating, are available.

These units are mainly used for mobile crane applications and truck loading cranes.



SK 58

Technical Data

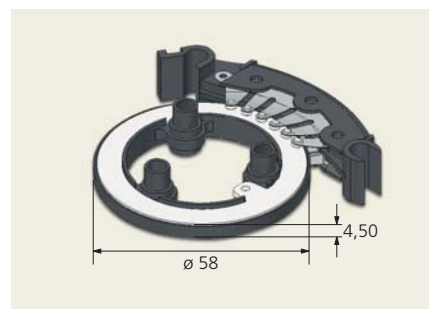
Current rating:	0,1mA up to 16 A
Max. voltage:	up to 125V / 380V / 500V
Max. rpm:	100 min ⁻¹
Max. number of poles:	64
Pole pitch:	8,8 / 10,5 / 13 mm
Slipring Ø:	58 mm
Slipring material:	brass, special version circuit plate with gold coating
Brush gear:	6 spring supported copper carbon gears with solder connection
Cable terminal:	up to 27 poles
Ambient temperature:	-35°C up to 50°C
Cross section:	1,5 mm ²

In conjunction with housing type 110/125/160

Housing:	bottom part made of plastic/aluminium, cover made of plastic
Installation position:	vertical, hanging, horizontal
Fixing dimensions GSK:	Ø 25h9, circle bore Ø 98/125mm(4x Ø9/11) depending on type of housing
Axis bore:	Ø 25 mm



Pole Assembly SK/GSK 58



Slipring type SK/GSK 59

This slipring has been specially designed for data transmission as it comes standard with an enlarged inner diameter in preparation for an increased number of poles. These sliprings are commonly found in agricultural applications such as milk carrouseles.



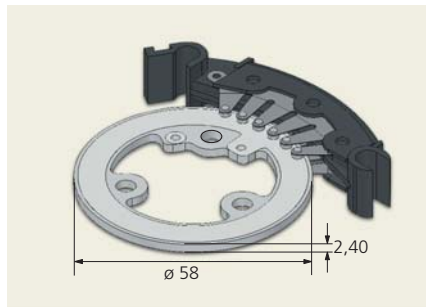
Pole Assembly SK/GSK 59

Technical Data

Current rating:	0,1mA up to 10 A
Max. voltage:	up to 125V
Max. rpm:	100 min ⁻¹
Max. number of poles:	64
Pole pitch:	6,4 mm
Slipring Ø:	58 mm
Slipring material:	circuit plate with gold coating
Brush gear:	6 spring supported copper carbon gears with solder connection
Cable terminal:	with or without
Ambient temperature:	-35°C up to 50°C
Cross section:	1,5 mm ² (or less)

In conjunction with housing type 160/180

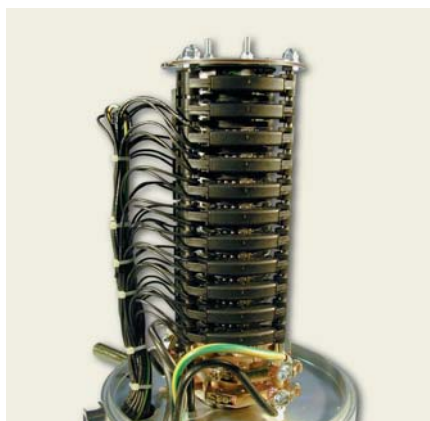
Housing:	bottom part made of aluminium, cover made of plastic
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	M20, Ø 25 E8, circle bore Ø 98 / Ø 125 mm depending on type of housing
Axis bore:	Ø 25 mm



Pole Assembly SK/GSK 59

Slipring type SK/GSK 60

This compact slipring has been specially designed for power transmission. It is often used in general industry and for mobile crane applications.



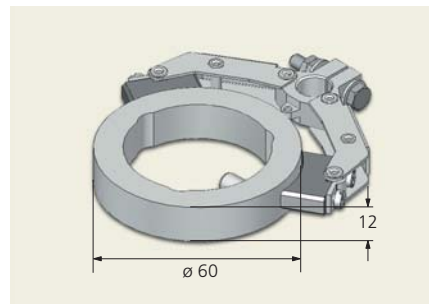
SK/GSK 60

Technical Data

Current rating:	50mA up to 80 A (2 brushes)
Max. voltage:	up to 500 V
Max. rpm:	100 min ⁻¹
Max. number of poles:	4
Pole pitch:	18 mm
Slipring Ø:	60 mm
Slipring material:	brass M6 screw connection
Brush gear:	2 spring supported copper carbon gears with M4 screw connection
Cable terminal:	without
Ambient temperature:	-35°C up to 50°C
Cross section:	10 or 16mm ²
In conjunction with housing type 160/180	
Housing:	bottom part made of aluminium, cover made of plastic
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 125 mm (4x Ø11)
Axis bore:	Ø 25 mm

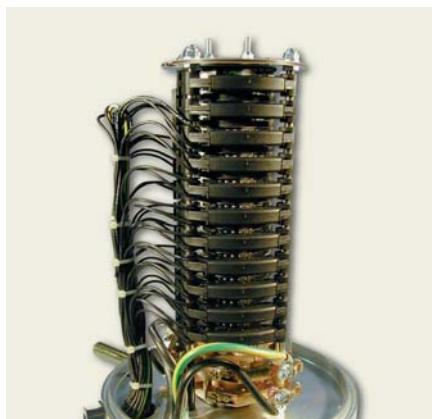


Pole Assembly SK/GSK 60



Slipring type SK/GSK 75

This compact slipring is ideally suited to power transmission applications. It can be configured for data transmission and surface treatments such as gold coating, are available.



SK/GSK 75

Technical Data

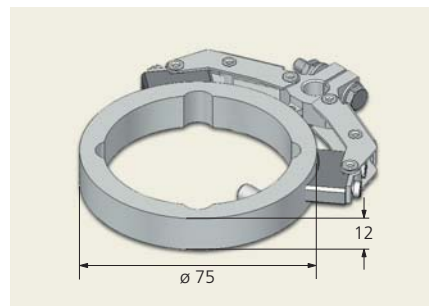
Current rating:	50mA up to 80 A (2 brushes)
Max. voltage:	up to 500 V
Max. rpm:	100 min ⁻¹
Max. number of poles:	4
Pole pitch:	18 mm
Slipring Ø:	75 mm
Slipring material:	brass M6 screw connection
Brush gear:	2 spring supported copper carbon gears with M4 screw connection
Cable terminal:	without
Ambient temperature:	-35°C up to 50°C
Cross section:	10 or 16mm ²

In conjunction with housing type 160

Housing:	bottom part made of aluminium, cover made of plastic
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 125 mm (4x Ø11)
Axis bore:	Ø 40 mm



Pole Assembly SK/GSK 75



Slipring type SK/GSK 80

This compact slipring is ideally suited to power transmission applications. It can be configured for data transmission and surface treatments such as gold coating, are available.



GSK 80

Technical Data

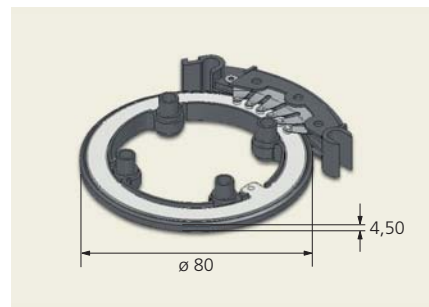
Current rating:	0,1mA up to 16 A
Max. voltage:	up to 125V / 380V / 500V
Max. rpm:	100 min ⁻¹
Max. number of poles:	80 (with direct wiring)
Pole pitch:	8,8 / 10,5 / 13 mm
Slipring Ø:	80 mm
Slipring material:	brass, special version circuit plate with gold coating
Brush gear:	6 spring supported copper carbon gears with solder connection
Cable terminal:	up to 32 poles
Ambient temperature:	-35°C up to 50°C
Cross section:	1,5 mm ² (or less)

In conjunction with housing type 160

Housing:	bottom part made of aluminium, cover made of plastic
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 125 mm (4x Ø11)
Axis bore:	Ø 40 mm

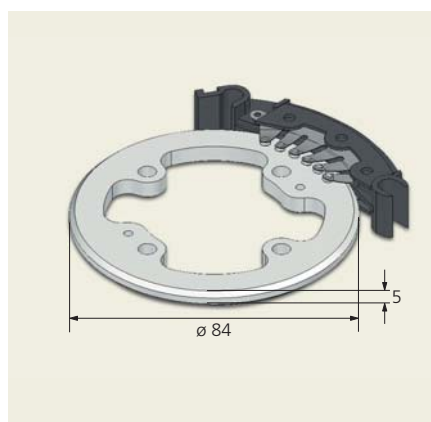


Pole Assembly SK/GSK 80



Slipring type SK/GSK 82

This compact slipring has been specially designed for power transmission. It is often used in general industry and for mobile crane applications.



Pole Assembly SK/GSK 82

Technical Data

Current rating:	50 mA up to 80A (3 brushes)
Max. voltage:	up to 125V
Max. rpm:	100 min ⁻¹
Max. number of poles:	12 (with direct wiring)
Pole pitch:	17,8 mm
Slipring Ø:	84 mm
Slipring material:	brass 2x M4 connection
Brush gear:	6 spring supported copper carbon gears with solder connection
Cable terminal:	without
Ambient temperature:	-35°C up to 50°C
Cross section:	16 mm ²

In conjunction with housing type 180

Housing:	bottom part made of aluminium, cover made of plastic
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	upon request
Axis bore:	Ø 40 mm

Slipring type SK/GSK 98

This standard slipring type has been designed for power and data transmission as it comes standard with an enlarged inner diameter in preparation for an increased number of poles. The slipring can be supplied additional surface treatment such as gold coating.

These sliprings are commonly found in general industry and theatre applications.



GSK 98

Technical Data

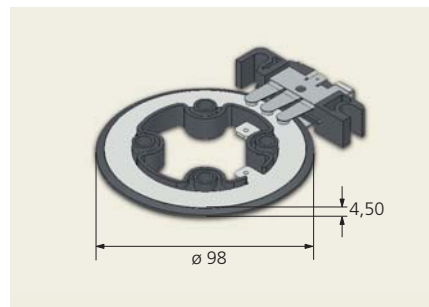
Current rating:	0,1mA up to 25A
Max. voltage:	500V
Max. rpm:	100 min ⁻¹
Max. number of poles:	80 (with direct wiring)
Pole pitch:	14 mm
Slipring Ø:	98 mm
Slipring material:	brass, special version circuit plate with gold coating
Brush gear:	triple elastic copper/silver carbon gears with M4 screw connection
Cable terminal:	up to 44 poles
Ambient temperature:	-35°C up to 50°C
Cross section:	2,5 mm ² (or less)

In conjunction with housing type 205/280 and others

Housing:	bottom part and cover made of plastic with fiber-glass reinforcement
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 140 mm (4x Ø17)
Axis bore:	Ø 40 mm



Pole Assembly SK/GSK 98



Slipring type SK/GSK 02/03

This specific slipring type has been designed for higher power transmission levels for industry applications such as portal cranes.



GSK 02/03

Technical Data SK/GSK 02

Current rating:	50mA up to 50 A
Max. voltage:	500 V
Max. rpm:	200 min ⁻¹
Max. number of poles:	30
Pole pitch:	17 mm
Slipring Ø:	85 mm
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears with M5 screw connection
Cable terminal:	up to 12 poles
Ambient temperature:	-35°C up to 50°C
Cross section:	10 mm ²

In conjunction with housing type 205/280 (others upon request)

Housing:	bottom part and cover made of plastic with fiber-glass reinforcement
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 140 mm (4x Ø17)
Axis bore:	Ø 40 mm



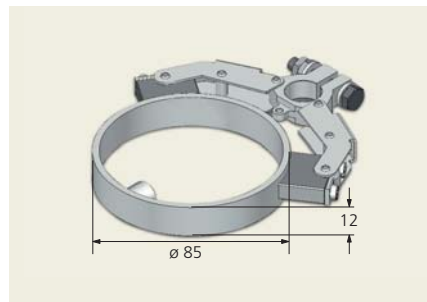
Pole Assembly 02/03

Technical Data SK/GSK 03

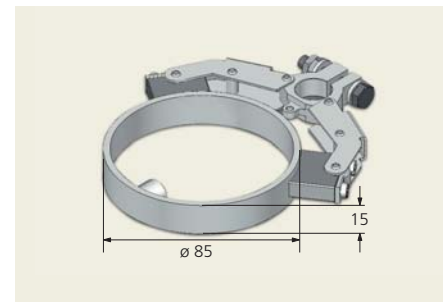
Current rating:	50mA up to 90 A
Max. voltage:	500 V
Max. rpm:	200 min ⁻¹
Max. number of poles:	24
Pole pitch:	20 mm
Slipring Ø:	85 mm
Slipring material:	brass
Brush gear:	2 spring supported bronze carbon gears with M6 screw connection
Cable terminal:	up to 4 poles
Ambient temperature:	-35°C up to 50°C
Cross section:	16 mm ²

In conjunction with housing type 205/280 (others upon request)

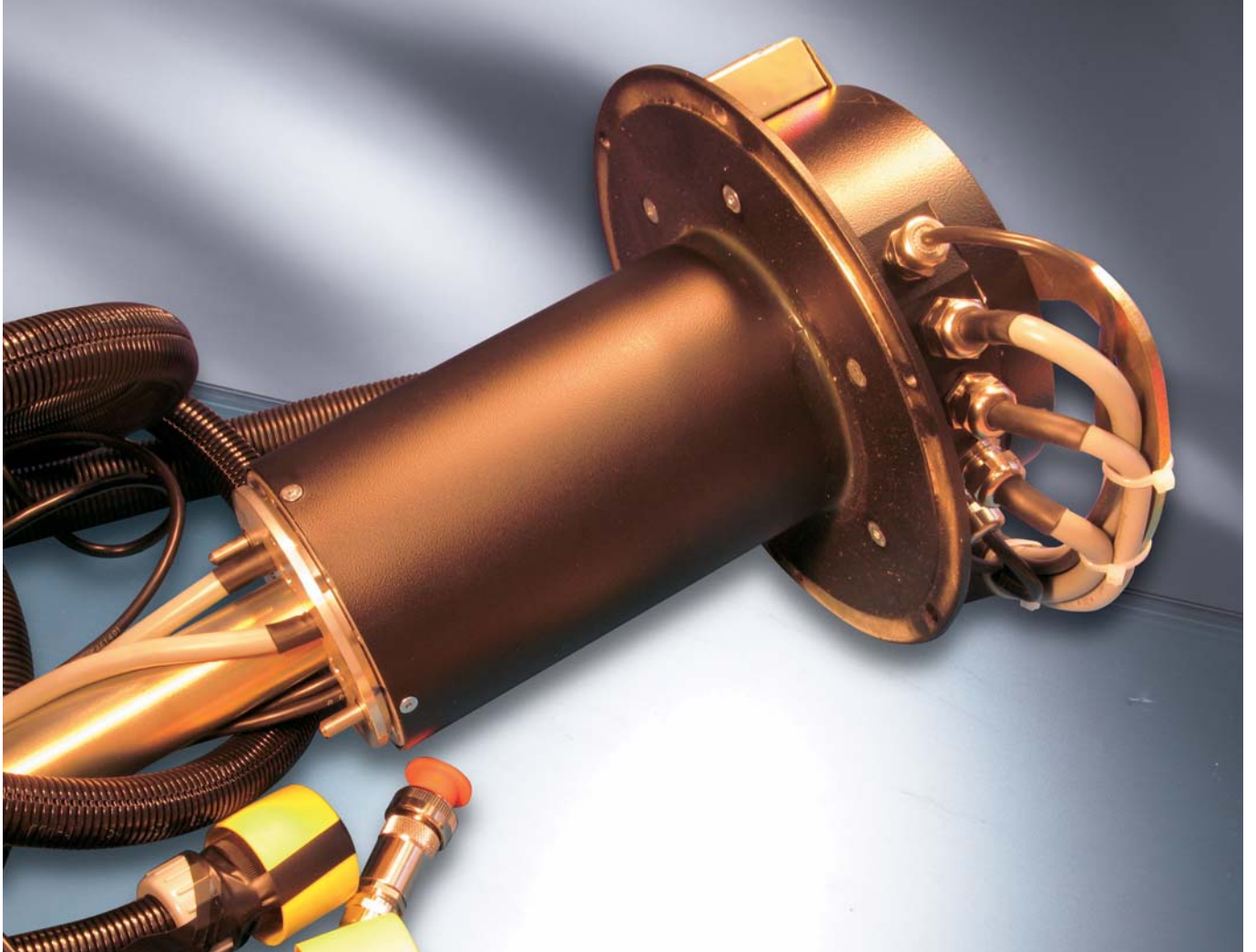
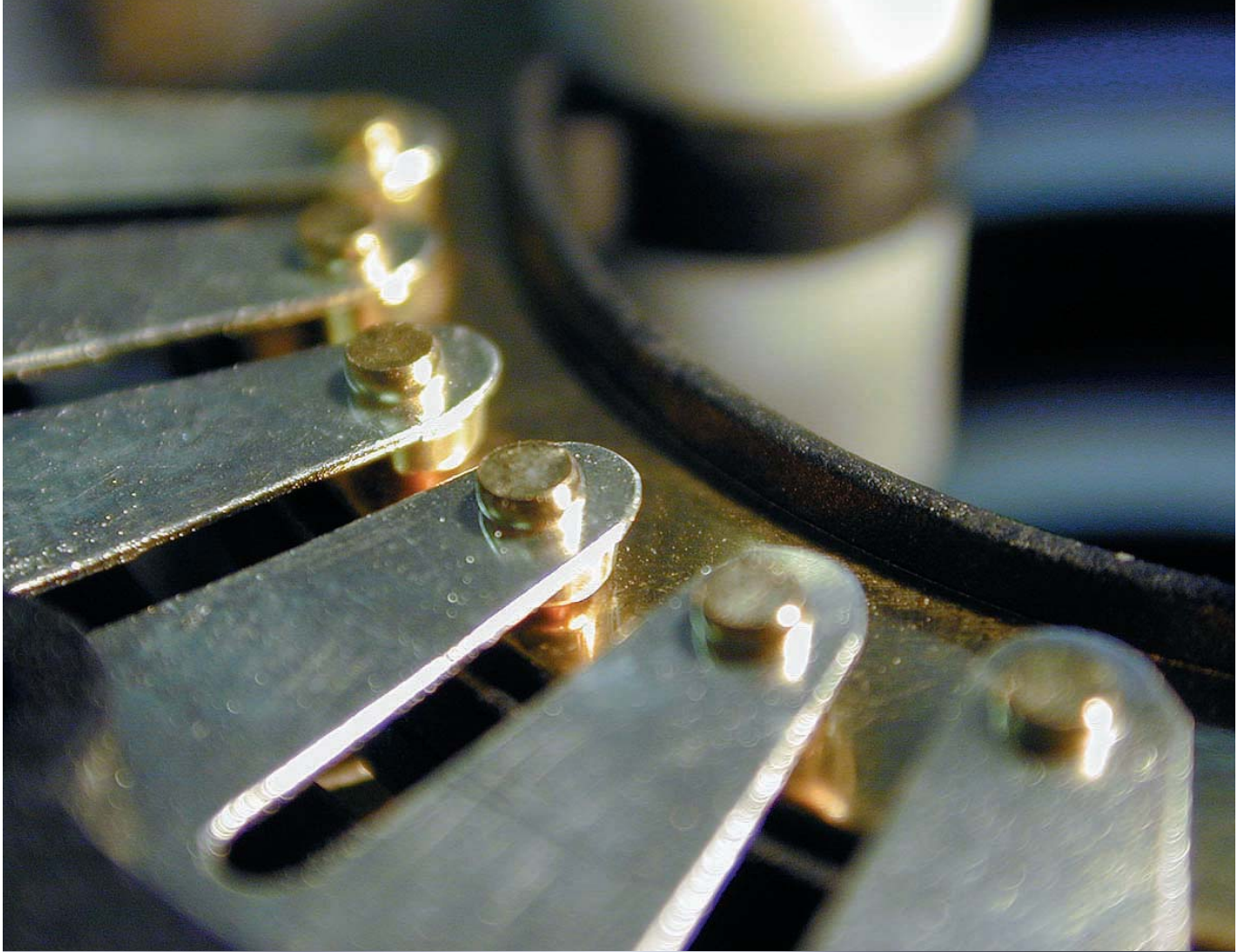
Housing:	bottom part and cover made of plastic with fiber-glass reinforcement
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 140 mm (4x Ø17)
Axis bore:	Ø 40 mm



Pole Assembly 02



Pole Assembly 03

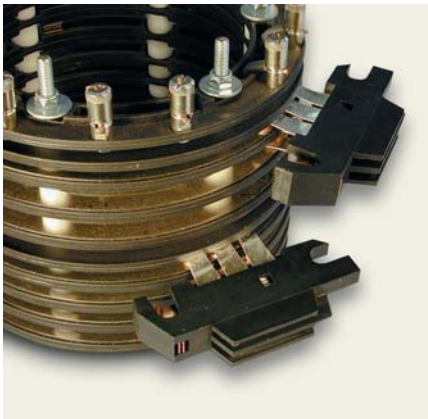


Slipring type SK/GSK 145/58 and 145/98

This type of slipring has been designed for a high number of poles and a lead-trough of the centre tube.



SK 145/58



SK 145/98

SK/GSK 145/58 Technical Data

Current rating:	0,1mA up to 16 A
Max. voltage:	up to 60V / 240V / 440V
Max. rpm:	30 min ⁻¹
Max. number of poles:	100 (with direct wiring)
Pole pitch:	8,8 / 10,5 / 13 mm
Slipring Ø:	145 mm
Slipring material:	brass special version circuit plate with gold coating
Brush gear:	6 spring supported copper carbon gears with solder connection
Cable terminal:	up to 36 poles
Ambient temperature:	-35°C up to 50°C
Cross section:	1,5 mm ² (or less)

In conjunction with housing type 280

Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel- version upon request)
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 120 mm (4x Ø9)
Clearance:	Ø 60/90 mm

SK/GSK 145/98 Technical Data

Current rating:	0,1mA up to 25 A
Max. voltage:	125/415V
Max. rpm:	40 min ⁻¹
Max. number of poles:	100 (with direct wiring)
Pole pitch:	10,5 / 13 mm
Slipring Ø:	145 mm
Slipring material:	brass special version circuit plate with gold coating
Brush gear:	triple elastic copper/silver carbon gears with M4 screw connection
Cable terminal:	up to 36 poles
Ambient temperature:	-35°C up to 50°C
Cross section:	2,5 mm ² (or less)

In conjunction with housing type 280

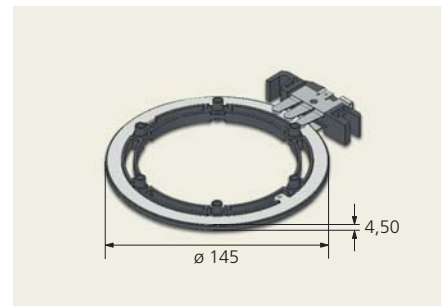
Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 120 mm (4x Ø9)
Clearance:	Ø 60/90 mm



Pole Assembly 145/58



Pole Assembly 145/58



Pole Assembly 145/98

Slipring type SK/GSK 185

This wide-configuration slipring has specifically been designed for power transmission, and allows for large tubes to be fitted. This slipring type is ideally suited for use in water treatment plants.



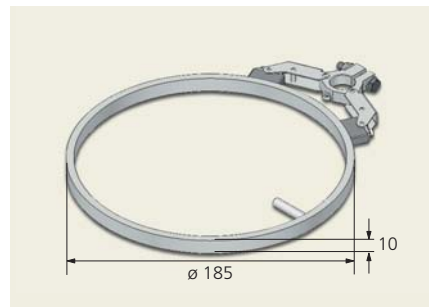
SK/GSK 185

Technical Data

Current rating:	50mA up to 40 A
Max. voltage:	500 V ~, 660 V =
Max. rpm:	60 min ⁻¹
Max. number of poles:	30
Pole pitch:	18 mm
Slipring Ø:	185 mm
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears with M5 screw connection
Cable terminal:	up to 18 poles
Ambient temperature:	-35°C up to 50°C
Cross section:	6 mm ²
In conjunction with housing type 340	
Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel- version upon request)
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 210 mm (4x Ø17)
Clearance:	Ø 101 mm



Pole Assembly SK/GSK 185



Slipring type SK/GSK 190

This flat slipring type has been specifically designed for power transmission while allowing for the use of (large) tubes.



SK/GSK 190

Technical Data

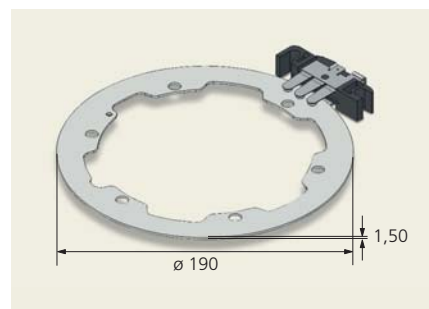
Current rating:	50mA up to 50A
Max. voltage:	415 V / 500 V ~
Max. rpm:	40 min ⁻¹
Max. number of poles:	60
Pole pitch:	11,5 / 13,5 mm
Slipring Ø:	190 mm
Slipring material:	brass / goldplated
Brush gear:	triple elastic copper/silver carbon gears with M4 screw connection
Cable terminal:	up to 33 poles
Ambient temperature:	-35°C up to 50°C
Cross section:	6 mm ² (or less)

In conjunction with housing type 340

Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 210 mm (4x Ø17)
Clearance:	Ø 125 mm



Pole Assembly SK/GSK 190



Slipring type SK/GSK 260

This wide-configuration slipring has specifically been designed for power transmission, and allows for large tubes to be fitted. This slipring type is ideally suited for use in water treatment plants.



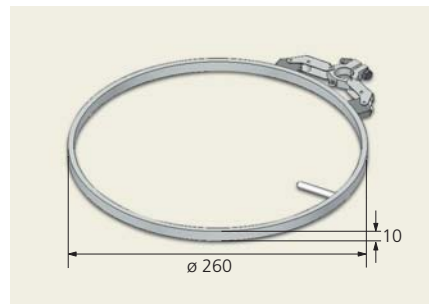
SK 260

Technical Data

Current rating:	50mA up to 40 A
Max. voltage:	500 V ~, 660 V =
Max. rpm:	60 min ⁻¹
Max. number of pole:	30
Pole pitch:	18 mm
Slipring Ø:	260 mm
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears supported with M5 screw connection
Cable terminal:	up to 18 poles
Ambient temperature:	-35°C up to 50°C
Cross section:	6 mm ²
In conjunction with housing type 430	
Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical
Fixing dimensions:	circle bore Ø 375 mm (4x Ø13)
Clearance:	Ø 160 mm



Pole Assembly SK/GSK 260



Slipring type SK/GSK 275

This flat slipring type has been specifically designed for power transmission while allowing for the use of (large) tubes.



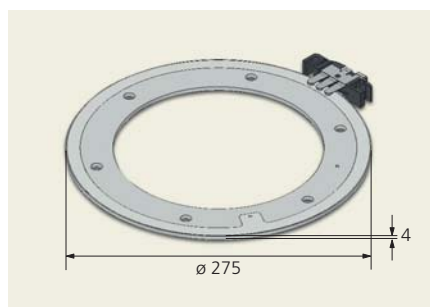
Pole Assembly SK/GSK 275

Technical Data

Current rating:	0,1mA up to 16A
Max. voltage:	415 V / 500 V ~
Max. rpm:	40 min ⁻¹
Max. number of poles:	upon request
Pole pitch:	14 mm
Slipring Ø:	275 mm
Slipring material:	circuit plate with gold coating
Brush gear:	triple elastic silver carbon gears with M4 screw connection
Cable terminal:	with or without
Ambient temperature:	-35°C up to 50°C
Cross section:	1,5 mm ² (or less)

In conjunction with housing type 430

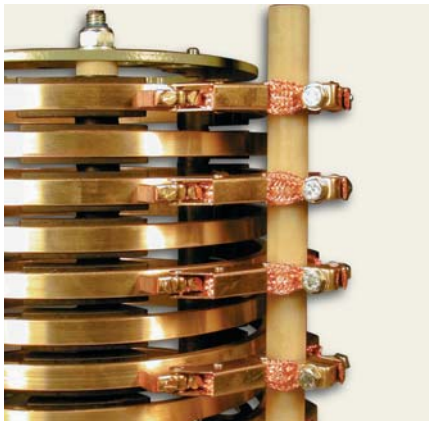
Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating
Installation position:	stainless steel-version upon request vertical
Fixing dimensions:	circle bore Ø 375 mm (4x Ø13)
Clearance:	Ø 160 mm



Pole Assembly SK/GSK 275

Slipring type SK/GSK 315.1 and 315.2

This slipring type has been specifically designed for power transmission while allowing for the use of larger tubes.



SK/GSK 315.2



Pole Assembly 315.1/315.2

315.1 Technical Data

Current rating:	50mA up to 200 A
Max. voltage:	500 V ~, 660 V =
Max. rpm:	60 min ⁻¹
Max. number of poles:	7
Pole pitch:	36 mm
Slipring Ø:	315 mm
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears with M5/M8 screw connection
Cable terminal:	without
Ambient temperature:	-35°C up to 50°C
Cross section:	2 x 16/2 x 25 mm ²

In conjunction with housing type 530

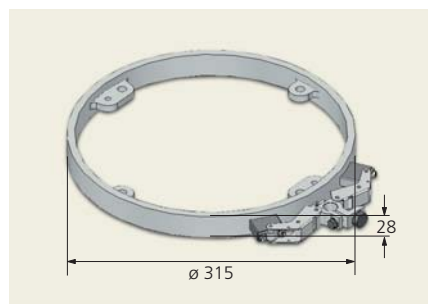
Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 475 mm (4x Ø13)
Clearance:	Ø 225 mm

315.2 Technical Data

Current rating:	50mA up to 40 A
Max. voltage:	500 V ~, 660 V =
Max. rpm:	60 min ⁻¹
Max. number of poles:	30
Pole pitch:	18 mm
Slipring Ø:	315 mm
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears with M5 screw connection
Cable terminal:	up to 24 poles
Ambient temperature:	-35°C up to 50°C
Cross section:	6 mm ²

In conjunction with housing type 530

Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 475 mm (4x Ø13)
Clearance:	Ø 225 mm



Pole Assembly 315.1



Pole Assembly 315.2

Slipring type SK/GSK 323

This wide-configuration slipring has specifically been designed for power transmission, and allows for large tubes to be fitted. This slipring type is ideally suited for use in water treatment plants.



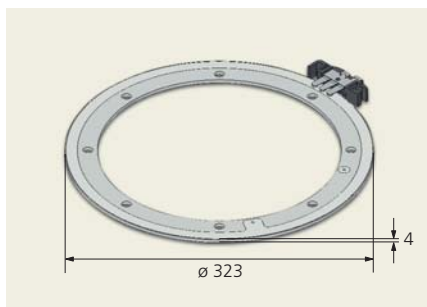
SK/GSK 323

Technical Data

Current rating:	0,1mA up to 16A
Max. voltage:	415 V / 500 V ~
Max. rpm:	40 min ⁻¹
Max. number of poles:	upon request
Pole pitch:	14 mm
Slipring Ø:	323 mm
Slipring material:	circuit plate with gold coating
Brush gear:	triple elastic silver carbon gears with M4 screw connection
Cable terminal:	with or without
Ambient temperature:	-35°C up to 50°C
Cross section:	1,5 mm ² (or less)

In conjunction with housing type 530

Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating
Installation position:	Stainless steel-version upon request vertical
Fixing dimensions:	circle bore Ø 475 mm (4x Ø13)
Clearance:	upon request



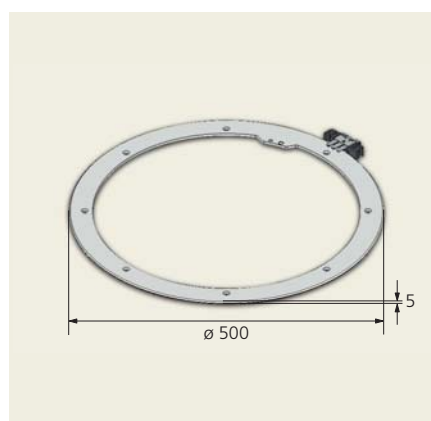
Pole Assembly SK/GSK 323

Slipring type SK/GSK 400/500

This slipring features a unique design that features a range of cross-sections that can be selected depending on the required power current level.



Pole Assembly 400



Pole Assembly 500

Technical Data SK/GSK 400

Current rating:	50mA up to 80A
Max. voltage:	500 V ~ / 690 V =
Max. rpm:	40 min ⁻¹
Max. number of poles:	upon request
Pole pitch:	25 mm
Slipring Ø:	400 mm
Slipring material:	brass
Brush gear:	triple elastic copper/silver carbon gears with M4 screw connection
Cable terminal:	with or without
Ambient temperature:	-35°C up to 50°C
Cross section:	16 mm ² (or less)

In conjunction with housing type 530

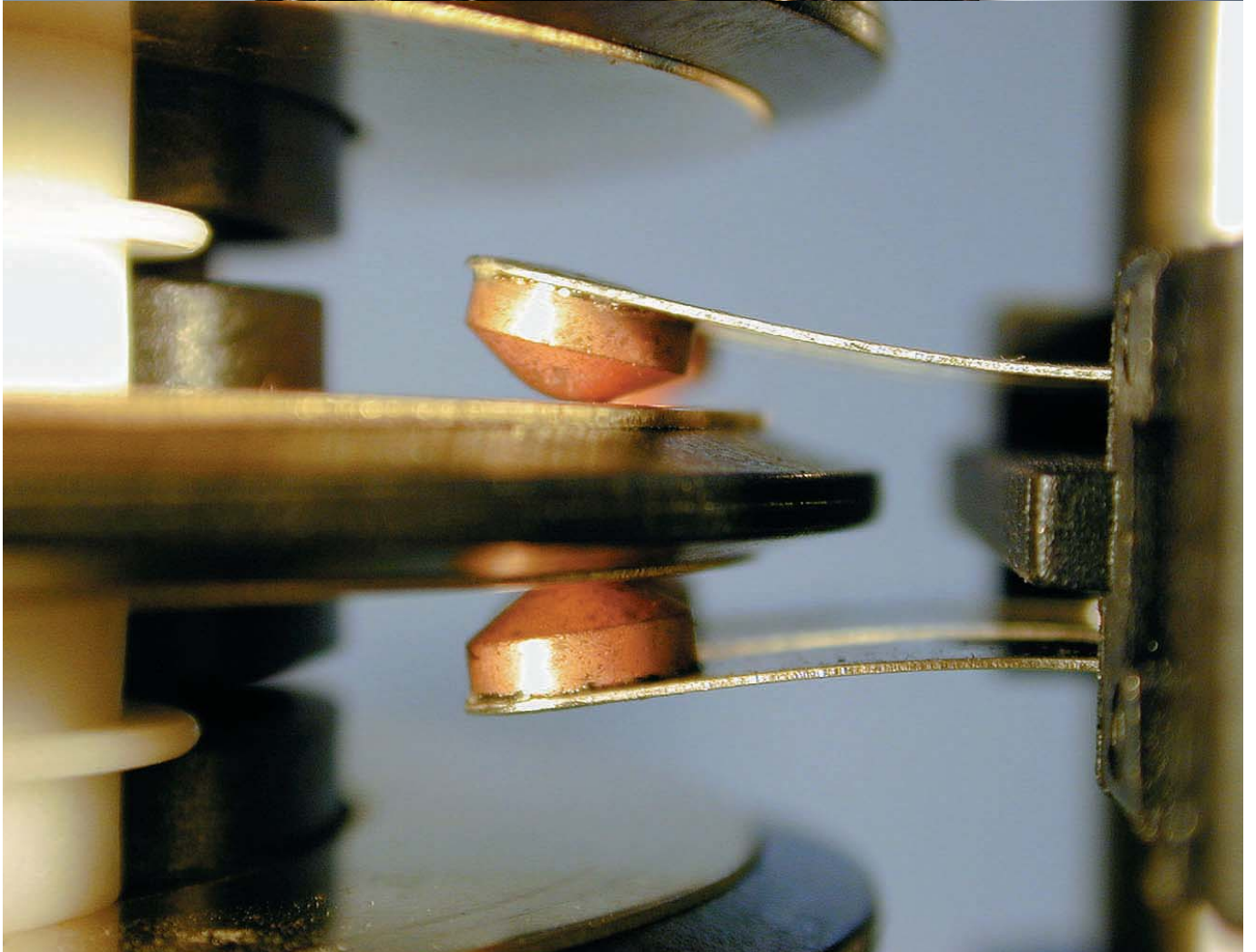
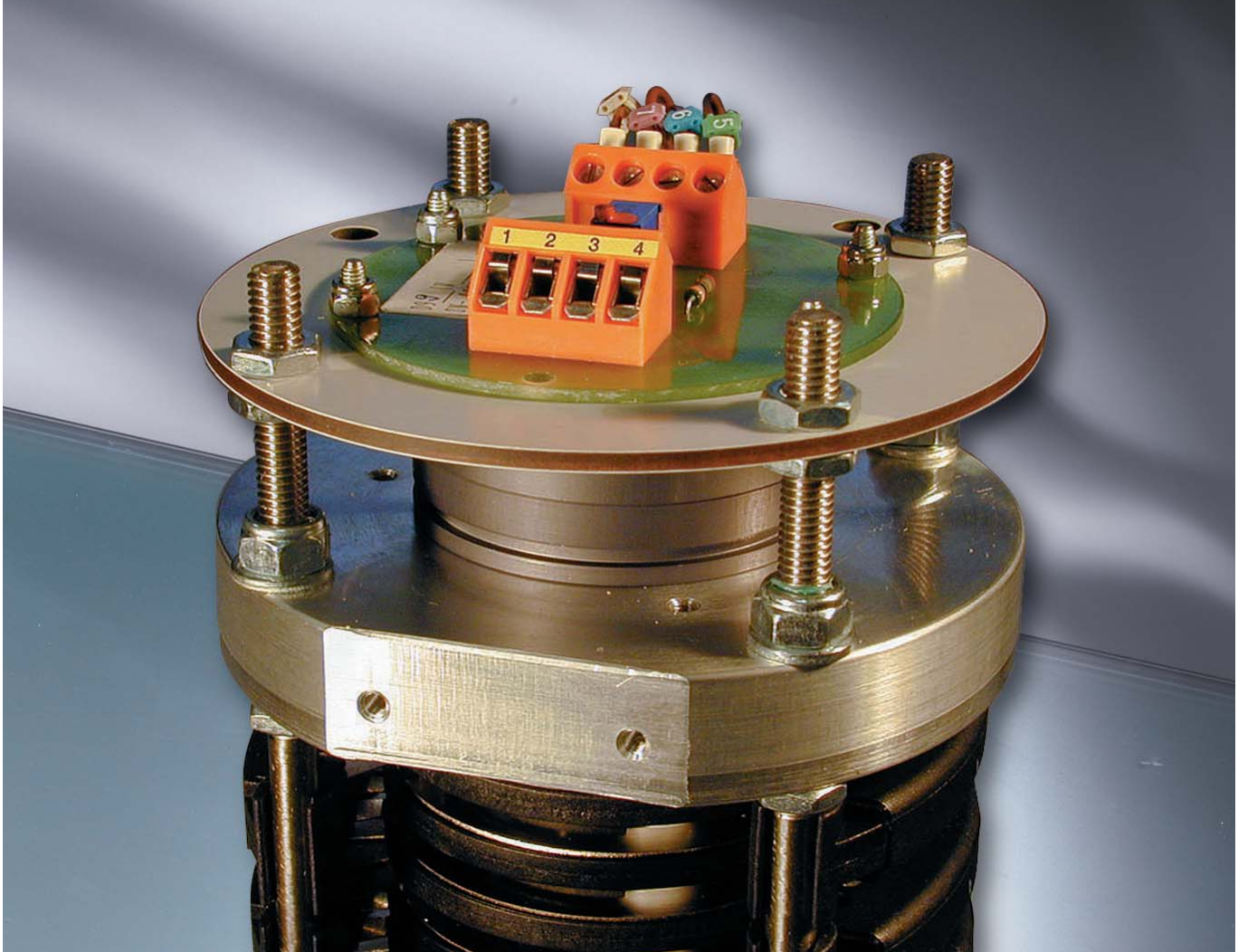
Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 475 mm (4x Ø13)
Clearance:	upon request

Technical Data SK/GSK 500

Current rating:	50 mA up to 80A
Max. voltage:	500 V ~ / 690 V =
Max. rpm:	40 min ⁻¹
Max. number of poles:	upon request
Pole pitch:	25 mm
Slipring Ø:	500 mm
Slipring material:	brass
Brush gear:	triple elastic silver carbon gears with M4 screw connection
Cable terminal:	with or without
Ambient temperature:	-35°C up to 50°C
Cross section:	2,5 mm ²

In conjunction with housing type 630

Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical, hanging, horizontal
Fixing dimension:	upon request
Clearance:	upon request



Slipring type SK/GSK 14.1/14.2/14.3/14.4/14.5

This wide-configuration slipring has been specifically designed for power transmission while allowing for the use of larger tubes.



SK/GSK 14



Pole Assembly 14.1



Pole Assembly 14.5

SK/GSK 14.1 Technical Data

Current rating:	50mA up to 100 A
Max. voltage:	660 V ~, 800 V =
Max. rpm:	100 min ⁻¹
Max. number of poles:	upon request
Pole pitch:	22 mm
Slipring Ø:	110 mm
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears with M8 screw connection
Cable terminal:	with or without
Ambient temperature:	-35°C up to 50°C
Cross section:	16 / 25 mm ²

In conjunction with housing type 280

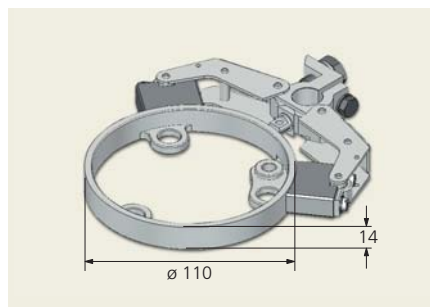
Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 120 mm (4x Ø9)
Clearance:	Ø 60 mm

SK/GSK 14.5 Technical Data

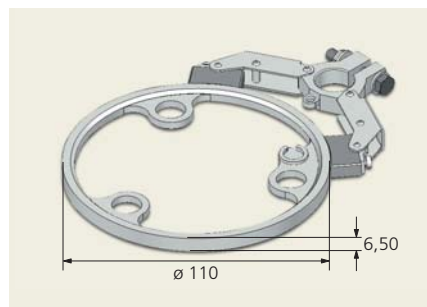
Current rating:	50mA up to 25 A
Max. voltage:	500 V ~, 660 V =
Max. rpm:	100 min ⁻¹
Max. number of poles:	upon request
Pole pitch:	13 mm
Slipring Ø:	110 mm
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears with M5 screw connection
Cable terminal:	with or without
Ambient temperature:	-35°C up to 50°C
Cross section:	2,5 / 4,0 mm ²

In conjunction with housing type 280

Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 120 mm (4x Ø9)
Clearance:	Ø 60 mm



Pole Assembly SK/GSK 14.1



Pole Assembly SK/GSK 14.5

Slipring type SK/GSK 06/07

This wide-configuration slipring has been specifically designed for power transmission while allowing for the use of larger tubes.



Pole Assembly 06



Pole Assembly 07

SK/GSK 06 Technical Data

Current rating:	50mA up to 200 A
Max. voltage:	660 V ~, 800 V =
Max. rpm:	100 min ⁻¹
Max. number of poles:	12 (depending on cross section)
Pole pitch:	36 mm
Slipring Ø:	150 mm M10 connection
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears with M8 screw connection
Cable terminal:	without
Ambient temperature:	-35°C up to 50°C
Cross section:	35 mm ²

In conjunction with housing type 340

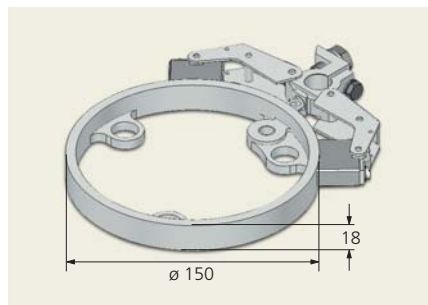
Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical
Fixing dimensions:	circle bore Ø 210 mm (4x Ø17)
Clearance:	upon request

SK/GSK 07 Technical Data

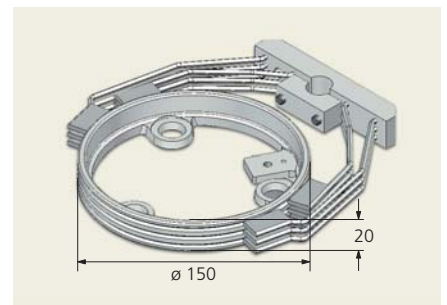
Current rating:	50mA up to 200 A
Max. voltage:	660 V ~, 800 V =
Max. rpm:	100 min ⁻¹
Max. number of poles:	12 (depending on cross section)
Pole pitch:	35 mm
Slipring Ø:	137 mm M6 connection
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears with M5/M8 screw connection
Cable terminal:	without
Ambient temperature:	-35°C up to 50°C
Cross section:	35 mm ²

In conjunction with housing type 340

Housing:	bottom part and cover made of hot-dip galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical
Fixing dimensions:	circle bore Ø 210 mm (4x Ø17)
Clearance:	upon request



Pole Assembly SK/GSK 06



Pole Assembly SK/GSK07

Slipring type SK/GSK 15

This wide-configuration slipring has been specifically designed for power transmission while allowing for the use of larger tubes.



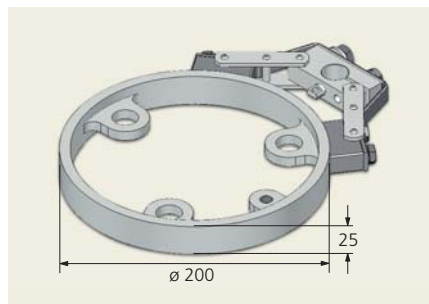
SK/GSK 15

Technical Data

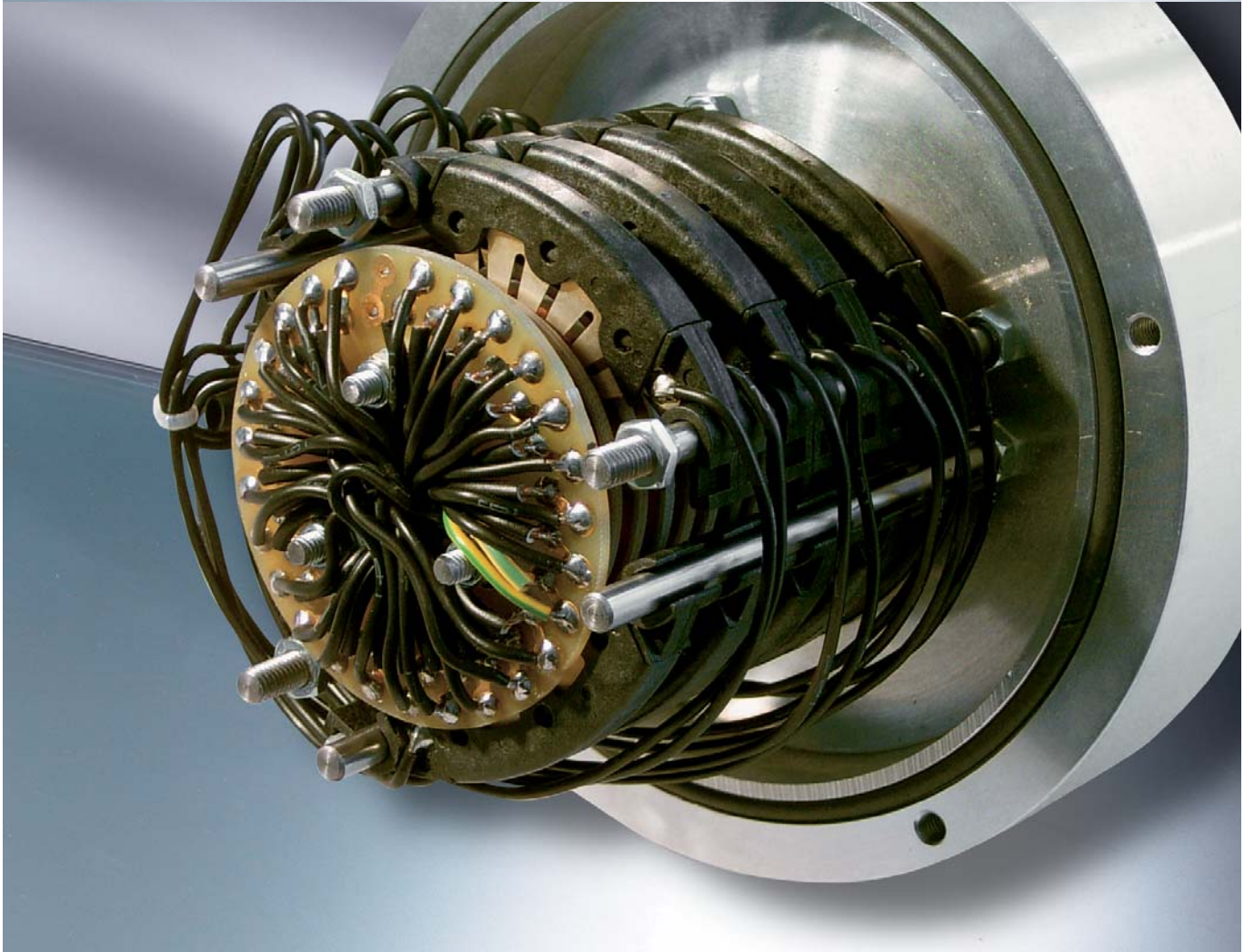
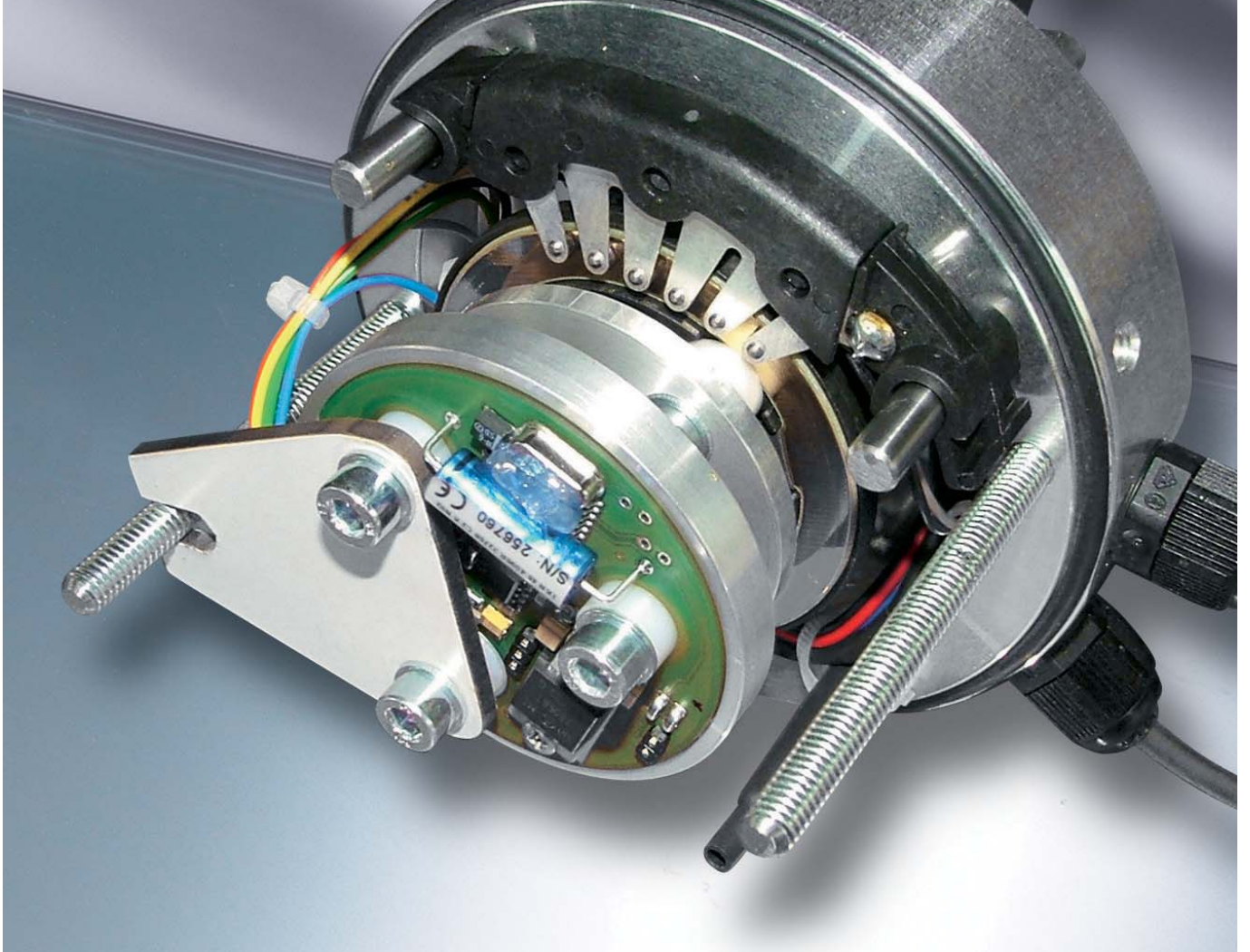
Current rating:	50mA up to 300 A
Max. voltage:	660 V ~, 800 V =
Max. rpm:	100 min ⁻¹
Max. number of poles:	12 (depending on cross section)
Pole pitch:	36 mm
Slipring Ø:	200 mm M10/M12 connection
Slipring material:	brass
Brush gear:	two spring supported copper carbon gears with M10 screw connection
Cable terminal:	without
Ambient temperature:	-35°C up to 50°C
Cross section:	25 up to 120 mm ²

In conjunction with housing type 400

Housing:	bottom part and cover made of hot- galvanized steel with polyester coating (stainless steel-version upon request)
Installation position:	vertical, hanging, horizontal
Fixing dimensions:	circle bore Ø 210 mm (4x Ø17)
Clearance:	upon request



Pole Assembly



Head Office

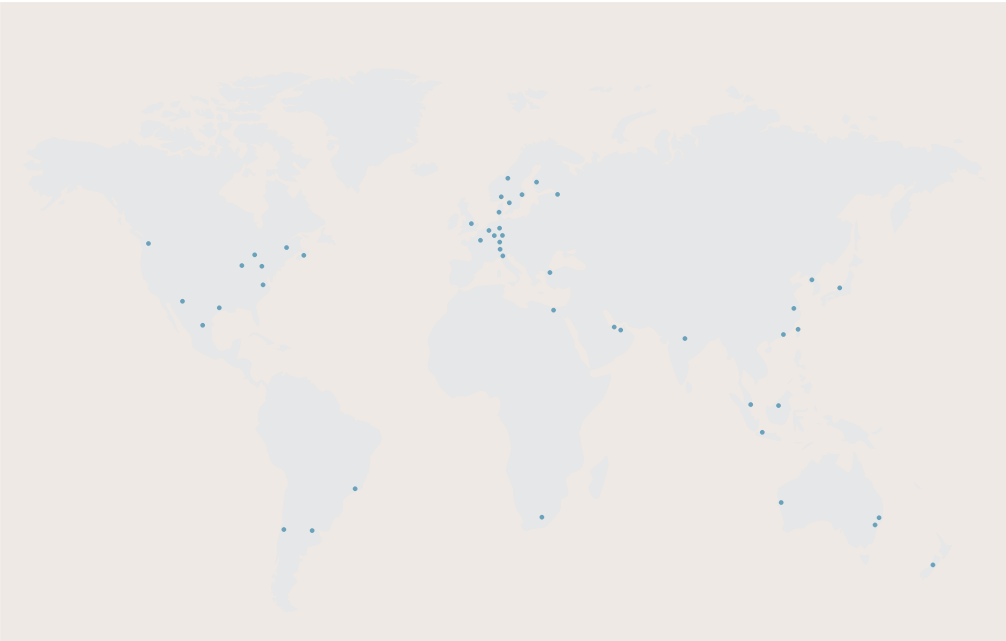
Cavotec MSL Holdings Ltd.
Cavotec MSL is listed on the **NZX**

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