

11 Motor types

11.1 Standard type – encoders

11.1.1 Resolver

Type designation

/RH1M

Description

CMP servomotors are delivered with 2-pole resolvers as standard. Further information on other resolvers is available on request.

11.1.2 Option: Hiperface® encoders

11

CMP servomotors are optionally available with the following Hiperface® multi-/single-turn encoders:

Designation	Specification periods / revolution	Motor type	Brake types
EK0H	128	CMP40	BK
AK0H ¹⁾	128	CMP40 – 63, CMP.71 – 100, CMP112	BP/BK
ES1H, AS1H	1024	CMP50 – 63	–
EK1H, AK1H ¹⁾	1024	CMP50 – 63/BK, CMP.71 – 100, CMP112	BP/BK/BY

1) Also available as safety-rated version

Type designation

/AK0H, /EK0H, /AK1H, /EK1H

Description

SEW-EURODRIVE offers Hiperface® encoders also as multi-turn absolute encoders as an alternative to the resolver. Encoders with a high resolution are also available in addition to the standard.

INFORMATION



The encoder signal can be influenced when applying the brake from speed. It is therefore important that the inverter defines its encoder position again after this process. This is not necessary in regular operation when the brake is actuated at standstill.

When prefabricating the encoder cables, ensure correct polarity for the supply outputs.

11.1.3 Encoders – technical data

Resolver

/RH1M

Type	RH1M
	CMP40 – 63, CMP.71 – 100, CMP112
Number of poles	2
Primary	Rotor
Input voltage	7 V
Input frequency	7 kHz
Reduction ratio $\pm 10\%$	0.5
Phase shift $\pm 5^\circ$	$+13^\circ$
Input impedance $\pm 15\%$	$130 + j120 \Omega$
Output impedance $\pm 15\%$	$200 + j270 \Omega$
Input resistance $\pm 10\%$	82Ω
Output resistance $\pm 10\%$	68Ω
Maximum electrical fault	$\pm 6'$
Temperature range	-55°C to $+150^\circ\text{C}$

Option: Hiperface® encoder

/EK0H, /AK0H

Type	EK0H	AK0H ¹⁾
Attachable to encoder	CMP40	CMP40 – 63, CMP.71 – 100, CMP112
Supply voltage	DC 7 to 12 V polarity reversal protected	
Maximum current consumption (with-out load)	120 mA	
Maximum operating frequency	26 kHz	
Pulses (sine cycles) per revolution	128	
Output amplitude per track	0.8 to 1.1V _{pp} sin/cos	
Single-turn resolution	4096 increments/revolution (15 bits)	
Multi-turn resolution	–	4096 revolutions (12 bits)
Transmission protocol	Hiperface®	
Serial data output	Driver to EIA RS-485	
Vibration resistance (10 to 2000 Hz)	≤ 100 m/s ² (DIN IEC 68-2-6)	
Maximum speed	12000 rpm	9000 rpm
Temperature range	-20 °C to +110 °C	

1) Not available in combination with BY brake

Option: Hiperface® encoders

/ES1H, /AS1H

Type	ES1H	AS1H
Attachable to encoder	CMP50, CMP63	
Supply voltage	DC 7 – 8 – 12 V polarity reversal protected	
Max. current consumption	140 mA	
Maximum operating frequency	200 kHz	
Pulses (sine cycles) per revolution	1024	
Output amplitude per track	0.9 to 1.1 V _{pp} sin/cos	
Single-turn resolution	32768 increments/revolution (15 bits)	
Multi-turn resolution	–	4096 revolutions (12 bits)
Transmission protocol	Hiperface®	
Serial data output	Driver to EIA RS-485	
Vibration resistance (10 to 2000 Hz)	≤ 200 m/s ² (DIN IEC 68-2-6)	
Maximum speed	12000 rpm	
Temperature range	-20 °C to +110 °C	

/EK1H, /AK1H

Type	EK1H	AK1H
Attachable to encoder	CMP50 – 63/BK, CMP.71 – 100, CMP112	
Supply voltage	DC 7 – 8 – 12 V polarity reversal protected	
Max. current consumption	140 mA	
Maximum operating frequency	200 kHz	
Pulses (sine cycles) per revolution	1024	
Output amplitude per track	0.9 to 1.1 V _{pp} sin/cos	
Single-turn resolution	32768 increments/revolution (15 bits)	
Multi-turn resolution	–	4096 revolutions (12 bits)
Transmission protocol	Hiperface®	
Serial data output	Driver to EIA RS-485	
Vibration resistance (10 to 2000 Hz)	≤ 200 m/s ² (DIN IEC 68-2-6)	
Maximum speed	12000 rpm	
Temperature range	-30 °C to +110 °C	

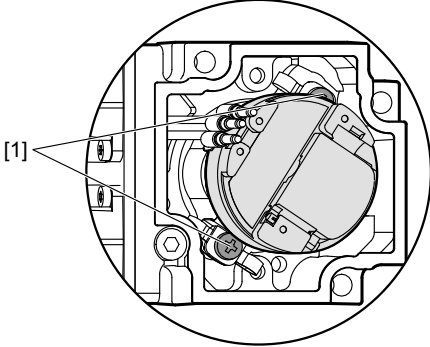
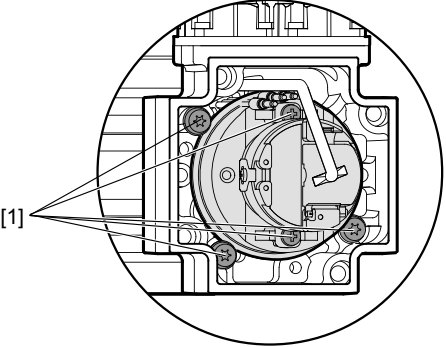
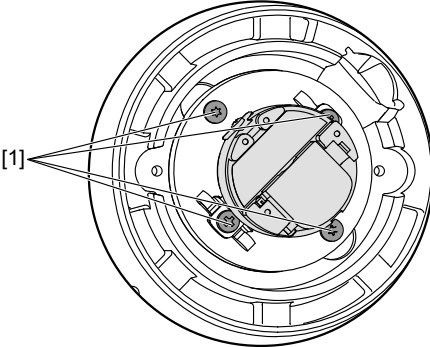
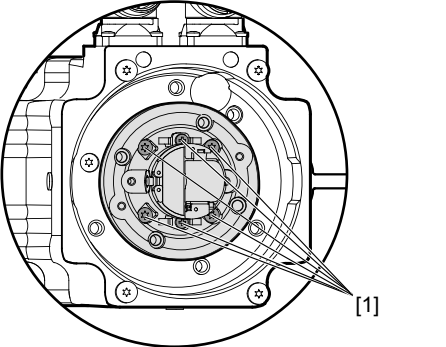
11.1.4 Safety-rated encoders

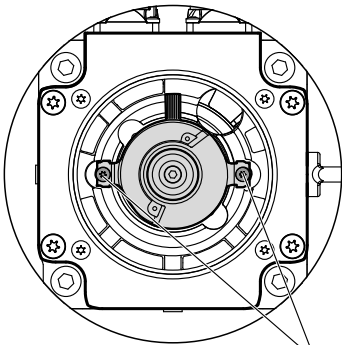
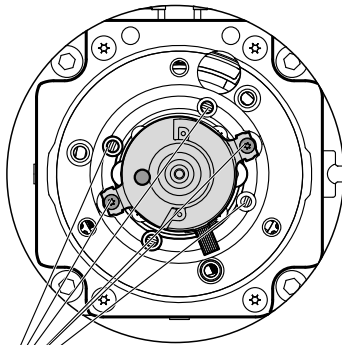
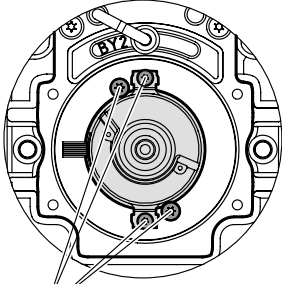
General information

Hiperface® encoders AK0H and AK1H are optionally available for functional safety. Using safety-rated encoders lets you implement safety functions SS1, SS2, SOS, SLA, SLS, SDI, and SLI according to IEC 61800-5-2.

Certain demands on the mechanical coupling of the encoder system to the motor must be met so that the encoder can be used for safety-relevant tasks.

SEW-EURODRIVE assumes responsibility for the delivered motor with safety-rated encoder in terms of compliance with the functional safety regulations. Safety-relevant connection elements are sealed to be able to ensure that the delivery condition is not changed, see following figures.

AK0H	CMP40	CMP50 – 63
	 9007203017040651	 9007203017042315
	CMP71 – 100	CMPZ71 – 100, CMP71 – 100 /BP, CMP112
	 9007203017043979	 9007203017045643

AK1H	CMP71 – 100	CMPZ71 – 100, CMP71 – 100 /BP, CMP112
	 [1] 9007203034362379	 [1] 3779561099
	CMPZ71 – 100 /BY, CMP112 /BY	
	 [1] 8468802571	[1] Sealed screw connections on the en- coder

Characteristic safety values

Characteristic safety values for AK0H encoders

The following table shows the characteristic safety values of the safety-rated AK0H encoders:

	Characteristic values according to	
	EN 62061 / IEC 61508	EN ISO 13849-1
Classification/underlying standards	SIL2 according to EN 62061	PL d according to EN ISO 13849-1
Structure	HFT = 1	2 channels (corresponds to category 3 according to EN ISO 13849-1)
Probability of a dangerous failure per hour (PFH _d value) ¹⁾	1.3×10^{-8} 1/h	
Mean time to dangerous failure (MTTF _d value) ²⁾	–	100 years
Mission time / service life	20 years	
Proof test interval	Not required	–
Safe fault coverage (SSF)	95%	–
Motor/encoder connection	In the drive with FS identification, exclusion of errors according to EN ISO 13849	

1) The specified value refers to the diagnostics coverage of 90% that must be achieved by an encoder evaluation unit. Diagnostics must be performed within the process response time.

2) Ambient temperature 40 °C

Characteristic safety values for AK1H encoders

The following table shows the characteristic safety values of the safety-rated AK1H encoder:

	Characteristic values according to	
	EN 62061 / IEC 61508	EN ISO 13849-1
Classification/underlying standards	SIL2 according to EN 62061	PL d according to EN ISO 13849-1
Structure	HFT = 1	2 channels (corresponds to category 3 according to EN ISO 13849-1)
Probability of a dangerous failure per hour (PFH _d value) ¹⁾	1.0 × 10 ⁻⁸ 1/h	
Mean time to dangerous failure (MTTF _d value) ²⁾	–	1073 years
Mission time / service life	20 years	
Proof test interval	Not required	–
Safe fault coverage (SSF)	95%	–
Motor/encoder connection	In the drive with FS identification, exclusion of errors according to EN ISO 13849	

1) The specified value refers to the diagnostics coverage of 90% that must be achieved by an encoder evaluation unit. Diagnostics must be performed within the process response time.

2) Ambient temperature 40 °C

11.2 Standard type – motor protection

11.2.1 Thermal motor information with KTY

Type designation

/KY

Description

This type detects the motor temperature continuously using a semi-conductor sensor for further processing in the inverter or controller.

The inverter + /KY option can only take on the function of motor protection when it is used in combination with an inverter containing the thermal motor model.

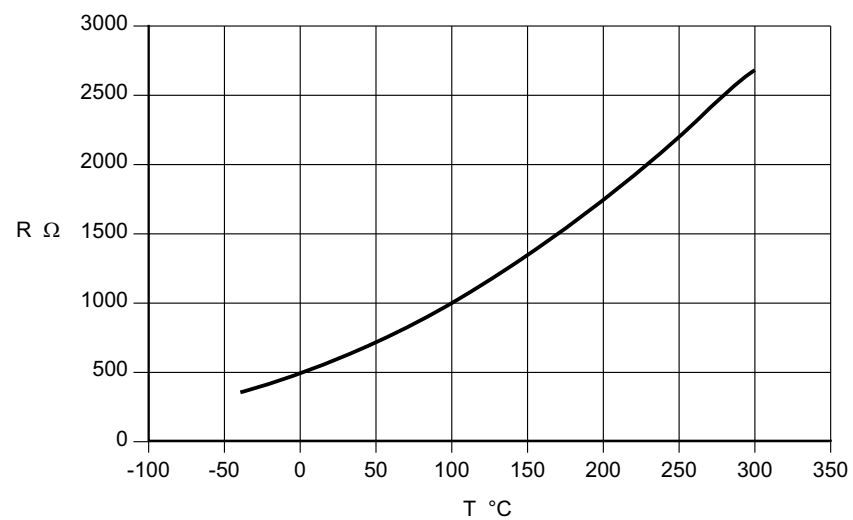
11.2.2 Thermal motor information with KTY – technical data

/KY

KTY84 to 130 temperature sensors continuously detect the motor temperature.

Technical data	KTY84 to 130
Connection	Red (+) Blue (–)
Total resistance at 20 to 25 °C	$540\ \Omega < R < 640\ \Omega$
Test current	$< 3\ \text{mA}$

Typical characteristic curve of KTY:



4816000395

11.2.3 TF temperature sensor

Type designation

/TF

Description

Thermal motor protection prevents the motor from overheating and causing irreparable damage. The TF is a triple PTC thermistor. One TF is installed in every motor phase and then connected in series.

A PTC thermistor is a resistance whose resistance value rises significantly from a nominal response value as the temperature rises. Please refer to the following characteristic curve.

The temperature sensor /TF can be designed as follows:

- in thermal class 155 (F)
- in thermal class 180 (H)
- in a double version
 - for warning in 130 (B) and for disconnection in 155 (H),
 - for warning in 155 (F) and for disconnection in 180 (H).

Please contact us if you are considering the double /TF design.

Notes on the selection

The positive temperature coefficient (PTC) temperature sensors comply with DIN 44082.

Resistance measurement (measuring instrument with $V \leq 2.5 \text{ V}$ or $< 1 \text{ mA}$):

- Standard measured values: $20 - 500 \Omega$
- Hot resistance: $> 4000 \Omega$

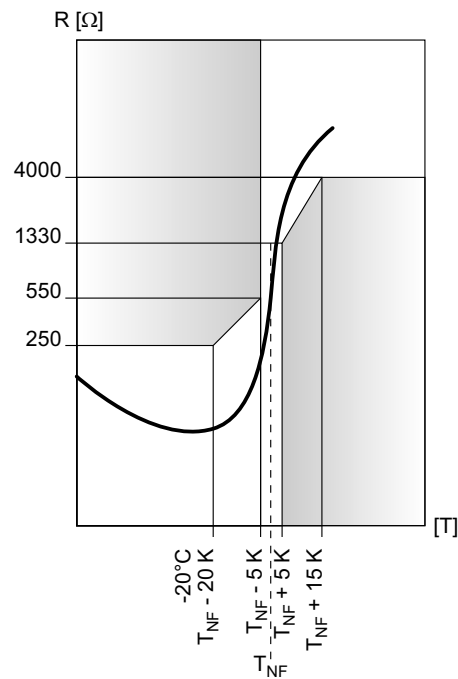
When using the temperature sensor for thermal monitoring, the evaluation function must be activated to maintain reliable isolation of the temperature sensor circuit. If the temperature reaches an excessive level, the thermal protection function must be brought into effect immediately.

INFORMATION



The temperature sensor /TF may not be subjected to voltages $> 30 \text{ V}$.

The below figure shows the characteristic curve of a TF with reference to the nominal response temperature (referred to as T_{NF}).

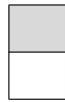


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11.3 Standard type – connection options

11.3.1 Assignment table for connectors and terminal boxes to CMP servomotors

Key:



Version possible

Version not possible

System voltage 400 V, without forced cooling fan

Motor type	Rated speed	Power connection without/with brake														
		SM1/SB1			SMB/SBB			SMC/SBC			KK			KKS		
		IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA
CMP40S	3000															
	4500															
	6000															
CMP40M	3000															
	4500															
	6000															
CMP50S	3000															
	4500															
	6000															
CMP50M	3000															
	4500															
	6000															
CMP50L	3000															
	4500															
	6000															
CMP63S	3000															
	4500															
	6000															
CMP63M	3000															
	4500															
	6000															
CMP63L	3000															
	4500															
	6000															
CMP.71S	2000															
	3000															
	4500															
	6000															
CMP.71M	2000															
	3000															
	4500															
	6000															
CMP.71L	2000															
	3000															
	4500															
	6000															
CMP.80S	2000															
	3000															
	4500															
	6000															

Motor type	Rated speed	Power connection without/with brake														
		SM1/SB1			SMB/SBB			SMC/SBC			KK			KKS		
		IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA
CMP.80M	2000															
	3000															
	4500															
	6000															
CMP.80L	2000															
	3000															
	4500															
	6000															
CMP.100S	2000															
	3000															
	4500															
CMP.100M	2000															
	3000															
	4500															
CMP.100L	2000															
	3000															
	4500															
CMP112S	2000															
	3000															
	4500															
CMP112M	2000															
	3000															
	4500															
CMP112L	2000															
	3000															
	4500															
CMP112H	2000															
	3000															
	4500															
CMP112E	2000															
	3000															
	4500															

System voltage 400 V, with forced cooling fan

Motor type	Rated speed	Power connection without/with brake														
		SM1/SB1			SMB/SBB			SMC/SBC			KK			KKS		
		IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA
CMP50S/ VR	3000															
	4500															
	6000															
CMP50M/ VR	3000															
	4500															
	6000															
CMP50L/ VR	3000															
	4500															
	6000															
CMP63S/ VR	3000															
	4500															
	6000															
CMP63M/ VR	3000															
	4500															
	6000															
CMP63L/ VR	3000															
	4500															
	6000															
CMP.71S/ VR	2000															
	3000															
	4500															
	6000															
CMP.71M/ VR	2000															
	3000															
	4500															
	6000															
CMP.71L/ VR	2000															
	3000															
	4500															
	6000															
CMP.80S/ VR	2000															
	3000															
	4500															
	6000															
CMP.80M/ VR	2000															
	3000															
	4500															
	6000															
CMP.80L/ VR	2000															
	3000															
	4500															
CMP.100S/ VR	2000															
	3000															
	4500															
CMP.100M/ VR	2000															
	3000															
	4500															
CMP.100L/ VR	2000															
	3000															
	4500															

Motor type	Rated speed	Power connection without/with brake														
		SM1/SB1			SMB/SBB			SMC/SBC			KK			KKS		
		IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA
CMP112S/ VR	2000															
	3000															
	4500															
CMP112M/ VR	2000															
	3000															
	4500															
CMP112L/ VR	2000															
	3000															
	4500															
CMP112H/ VR	2000															
	3000															
	4500															
CMP112E/ VR	2000															
	3000															
	4500															

System voltage 230 V, without forced cooling fan

Motor type	Rated speed	Power connection without/with brake														
		SM1/SB1			SMB/SBB			SMC/SBC			KK			KKS		
		IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA
CMP40S	3000															
	4500															
	6000															
CMP40M	3000															
	4500															
	6000															
CMP50S	3000															
	4500															
	6000															
CMP50M	3000															
	4500															
	6000															
CMP50L	3000															
	4500															
	6000															
CMP63S	3000															
	4500															
	6000															
CMP63M	3000															
	4500															
	6000															
CMP63L	3000															
	4500															
	6000															
CMP.71S	3000															
	4500															
	6000															
CMP.71M	3000															
	4500															
CMP.71L	3000															
CMP.80S	3000															
	4500															
	6000															
CMP.80M	3000															
	4500															
CMP.80L	3000															
CMP.100S	3000															
	4500															
CMP.100M	3000															

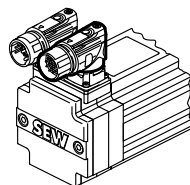
System voltage 230 V, with forced cooling fan

Motor type	Rated speed	Power connection without/with brake														
		SM1/SB1			SMB/SBB			SMC/SBC			KK			KKS		
		IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA	IEC	UL	CSA
CMP.71S/ VR	3000															
	4500															
	6000															
CMP.71M/ VR	3000															
	4500															
CMP.71L/ VR	3000															
CMP.80S/ VR	3000															
	4500															
	6000															
CMP.80M/ VR	3000															
	4500															
CMP.80L/ VR	3000															

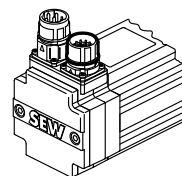
11.3.2 Plug connector connection option

CMP40 – CMP63: SM1/SB1 plug connector

Adjustable

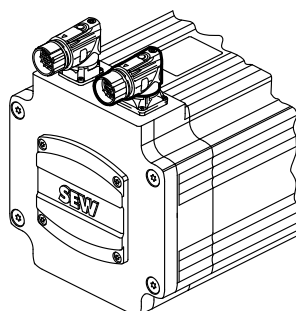


Radial

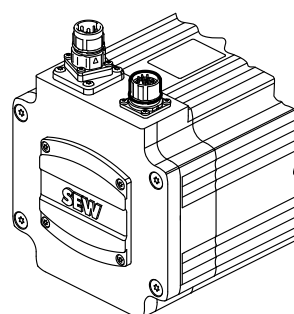


CMP.71 – CMP.100, CMP112: SM1/SB1 plug connector

Adjustable



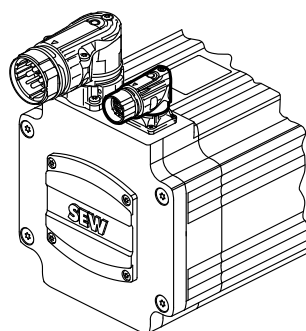
Radial



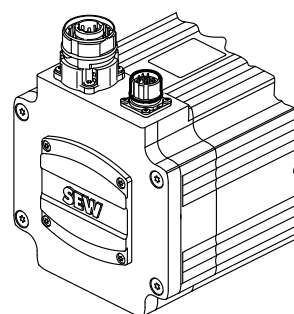
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CMP.71 – CMP.100, CMP112: SMB/SBB plug connector

Adjustable

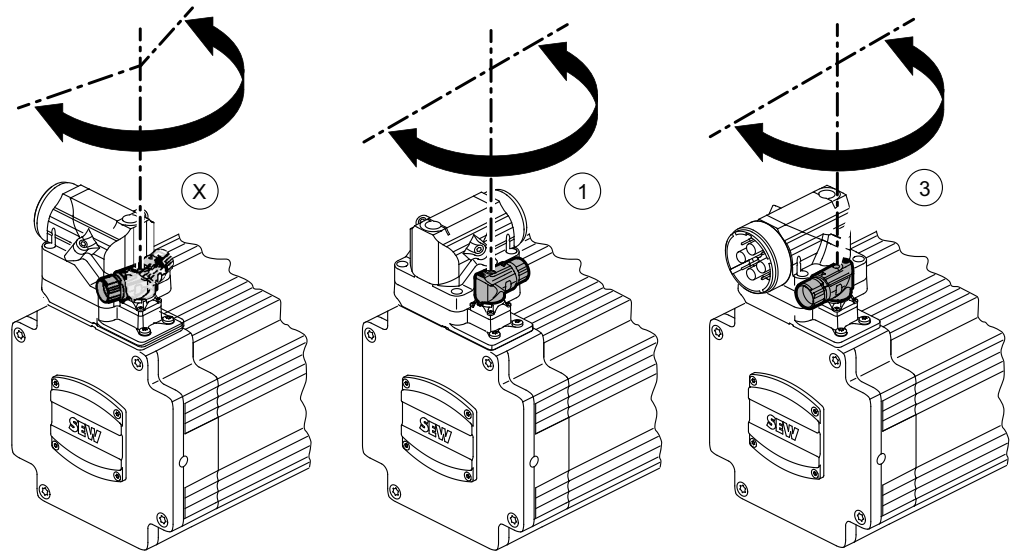


Radial



9288498187

CMP100, CMP112: Plug connectors SMC/SBC



18014405627737355

The power connector size S.C is not available as adjustable type. It can be ordered in 3 positions (positions X, 1, 3). If not specified otherwise in the order, the power connector is supplied in position 3 (standard position). The signal connector is adjustable.

11.3.3 Power cables and plug connectors for CMP motors

Cable type		Connector type	Thread size	Cable cross section	Part number	
					Prefabricated cables	Replacement mating connector *
Fixed installation	Motor cable	SM11	M23	4 x 1.5 mm ²	05904544	01986740
		SM12		4 x 2.5 mm ²	05904552	01986740
		SM14		4 x 4 mm ²	05904560	01991639
		SMB6	M40	4 x 6 mm ²	13350269	13349856
		SMB10		4 x 10 mm ²	13350277	13349864
		SMB16		4 x 16 mm ²	13350285	13349872
		SMC16	M58	4 x 16 mm ²	18148476	18150349
	Brakemotor cable ¹⁾ BP brake	SB11	M23	4 x 1.5 mm ² + 2 x 1 mm ²	13354345	01986740
		SB12		4 x 2.5 mm ² + 2 x 1 mm ²	13354353	01986740
		SB14		4 x 4 mm ² + 2 x 1 mm ²	13354361	01991639
		SBB6	M40	4 x 6 mm ² + 2 x 1.5 mm ²	13350196	13349856
		SBB10		4 x 10 mm ² + 2 x 1.5 mm ²	13350218	13349864
		SBB16		4 x 16 mm ² + 2 x 1.5 mm ²	13350226	13349872
	Brakemotor cable BY brake	SBC16	M58	4 x 16 mm ² + 3 x 1.5 mm ²	18148514	18150349
Cable carrier installation	Motor cable	SM11	M23	4 x 1.5 mm ²	05906245	01986740
		SM12		4 x 2.5 mm ²	05906253	01989197
		SM14		4 x 4 mm ²	05904803	01991639
		SMB6	M40	4 x 6 mm ²	13350293	13349856
		SMB10		4 x 10 mm ²	13350307	13349864
		SMB16		4 x 16 mm ²	13350315	13349872
		SMC16	M58	4 x 16 mm ²	18148484	18150349
		SMC25		4 x 25 mm ²	18148581	18150160
		SMC35		4 x 35 mm ²	18148697	18150179
	Brakemotor cable ²⁾ BP brake	SB11	M23	4 x 1.5 mm ² + 2 x 1 mm ²	13354388	01989197
		SB12		4 x 2.5 mm ² + 2 x 1 mm ²	13354396	01989197
		SB14		4 x 4 mm ² + 2 x 1 mm ²	13421603	01991639
		SBB6	M40	4 x 6 mm ² + 2 x 1.5 mm ²	13350234	13349856
		SBB10		4 x 10 mm ² + 2 x 1.5 mm ²	13350242	13349864
		SBB16		4 x 16 mm ² + 2 x 1.5 mm ²	13350250	13349872
	Brakemotor cable BY brake	SBC16	M58	4 x 16 mm ² + 3 x 1.5 mm ²	18148522	18150349

1) BP brake: 3-core cable, only 2 cores are used

2) BP brake: 3-core cable, only 2 cores are used

* The complete connector service pack always includes the following parts:

- Power connector
- Insulation inserts
- Socket contacts

11.3.4 Power cables and plug connectors for CMPZ motors

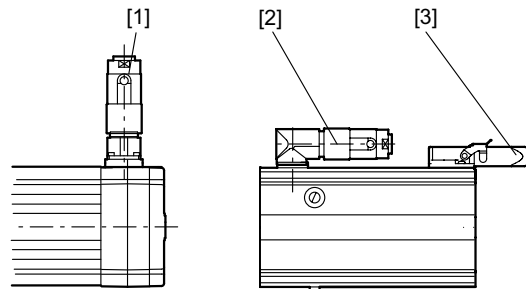
Cable type		Connector type	Thread size	Cable cross section	Part number	
				mm ²	Prefabricated cables	Replacement mating connector *
Fixed installation	Motor cable	SM11	M23	4 x 1.5 mm ²	05904544	01986740
		SM12		4 x 2.5 mm ²	05904552	01986740
		SM14		4 x 4 mm ²	05904560	01991639
		SMB6	M40	4 x 6 mm ²	13350269	13349856
		SMB10		4 x 10 mm ²	13350277	13349864
		SMB16		4 x 16 mm ²	13350285	13349872
	Brakemotor cable BY brake	SB11	M23	4 x 1.5 mm ² + 3 x 1 mm ²	13354272	01986740
		SB12		4 x 2.5 mm ² + 3 x 1 mm ²	13354280	01986740
		SB14		4 x 4 mm ² + 3 x 1 mm ²	13354299	01991639
		SBB6	M40	4 x 6 mm ² + 3 x 1.5 mm ²	13350129	13349856
		SBB10		4 x 10 mm ² + 3 x 1.5 mm ²	13350137	13349864
		SBB16		4 x 16 mm ² + 3 x 1.5 mm ²	13350145	13349872
Cable carrier installation	Motor cable	SM11	M23	4 x 1.5 mm ²	05906245	01986740
		SM12		4 x 2.5 mm ²	05906253	01989197
		SM14		4 x 4 mm ²	05904803	01991639
		SMB6	M40	4 x 6 mm ²	13350293	13349856
		SMB10		4 x 10 mm ²	13350307	13349864
		SMB16		4 x 16 mm ²	13350315	13349872
	Brakemotor cable BY brake	SB11	M23	4 x 1.5 mm ² + 3 x 1 mm ²	13354302	01989197
		SB12		4 x 2.5 mm ² + 3 x 1 mm ²	13354310	01989197
		SB14		4 x 4 mm ² + 3 x 1 mm ²	13354329	01991639
		SBB6	M40	4 x 6 mm ² + 3 x 1.5 mm ²	13350153	13349856
		SBB10		4 x 10 mm ² + 3 x 1.5 mm ²	13350161	13349864
		SBB16		4 x 16 mm ² + 3 x 1.5 mm ²	13350188	13349872

* The complete connector service pack always includes the following parts:

- Power connector
- Insulation inserts
- Socket contacts

11.3.5 Plug connector connection option – technical data

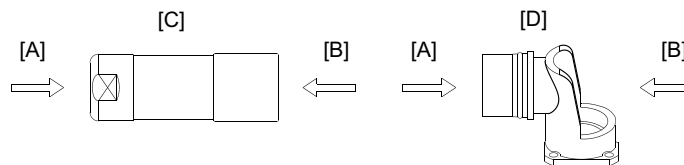
Illustration of the mating connectors:



4816072075

- [1] Radial mating connector
- [2] Angled mating connector
- [3] Mating connector for forced cooling fan

Key



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- [A] View A
- [B] View B
- [C] Customer connector with socket contacts
- [D] Flange socket with pin contacts installed at the factory

NOTICE



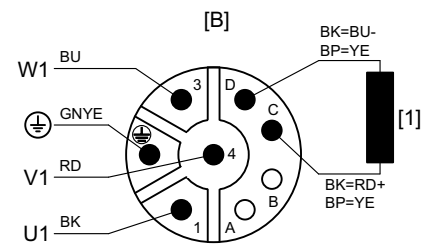
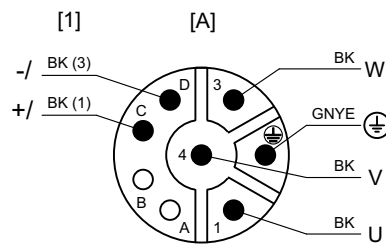
Damage to the BK brake.

Possible damage to property.

- It is essential that you observe the correct polarity of BK brake supply. Check the polarity when replacing the brake.

SM1/SB1 power connector (M23)

Wiring diagram with/without BP/BK brake

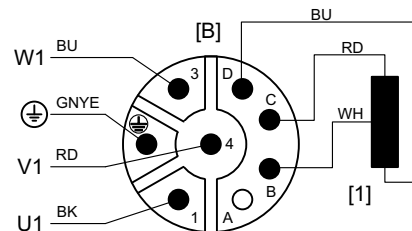
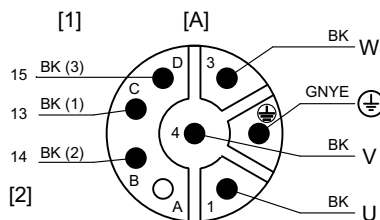


8790987787

[1] BP/BK brake (optional)

Connection of power plug connector SM1 / SB1 (M23)

Wiring diagram with/without BY brake

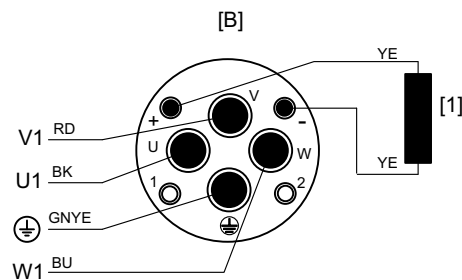
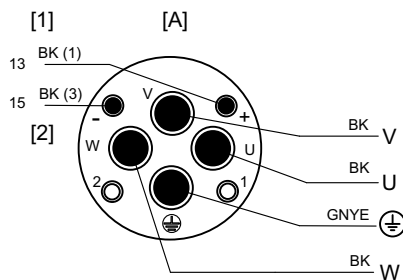


8790989707

- [1] BY brake (optional)
- [2] Connection to SEW rectifier according to operating instructions

Connection of SMB/SBB power plug connector (M40)

Wiring diagram with/without BP brake

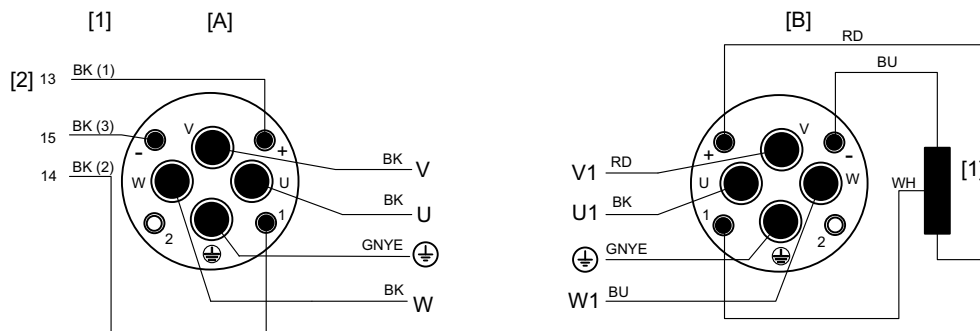


8791076107

- [1] BP brake (optional)
- [2] Connection to SEW rectifier according to operating instructions

Connection of SMB/SBB power plug connector (M40)

Wiring diagram with/without BY brake

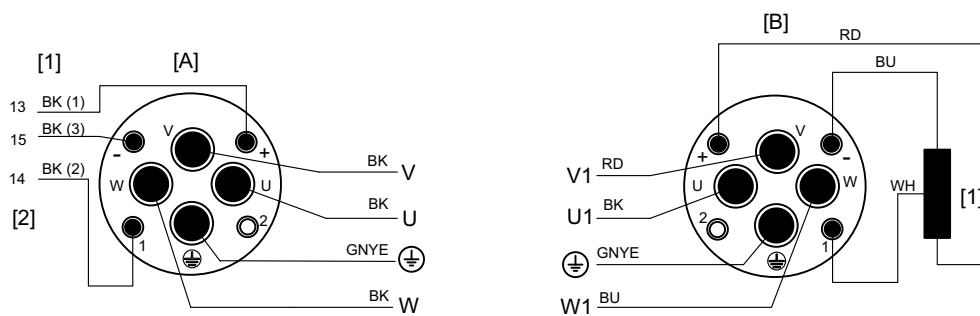


8791078027

- [1] BY brake (optional)
- [2] Connection to SEW rectifier according to operating instructions. For BY.D, connection 14 is omitted.

Connection of SMC/SBC power plug connector (M58)

Wiring diagram with/without BY brake

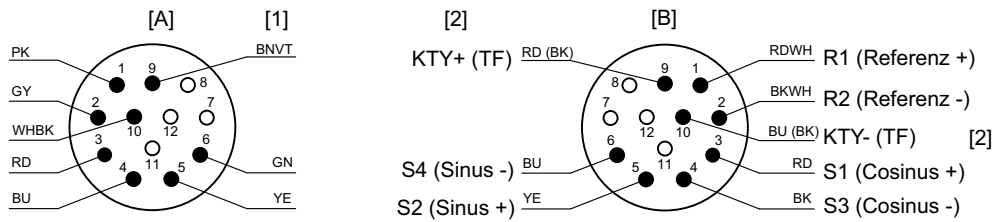


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- [1] BY brake (optional)
- [2] Brake coil

Wiring diagram for RH1M resolver signal plug connectors

Wiring diagram



8790991627

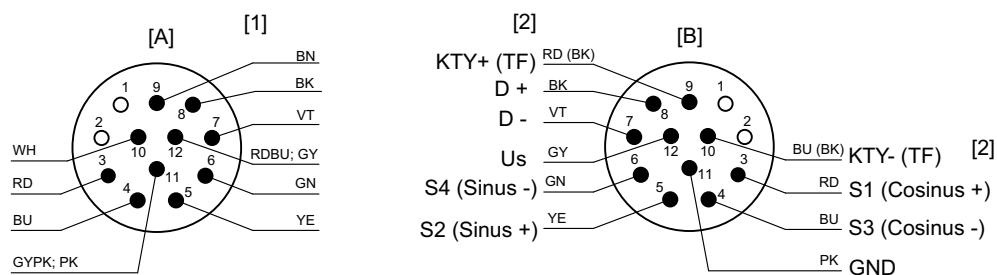
- [1] Shield connected to the metal housing of the connector. Colors according to SEW-EURODRIVE cables
- [2] KTY+ (RD), KTY- (BU), optional TF (BK)

Pin assignment of plug connector lower part

Pin	Color code	Connection
1	RD/WH	R1 (reference +)
2	BK/WH	R2 (reference -)
3	RD	S1 (cosine +)
4	BK	S3 (cosine -)
5	YE	S2 (sine +)
6	BU	S4 (sine -)
7	–	–
8	–	–
9	RD	KTY +
10	BU	KTY –
11	–	–
12	–	–

Connection of signal plug connectors, AK0H, EK0H, AK1H, EK1H encoders

Wiring diagram



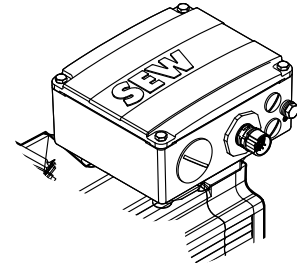
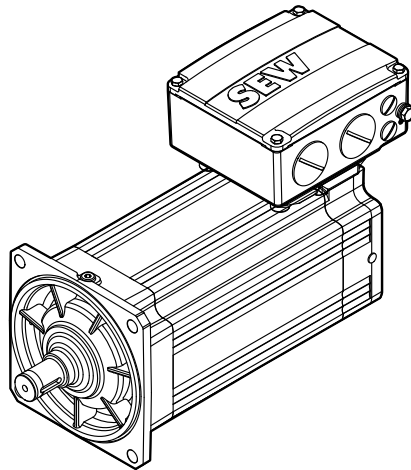
8790993547

- [1] Shield connected to the metal housing of the connector. Colors according to SEW-EURODRIVE cables
- [2] KTY+ (RD), KTY-(BU), optional TF (BK)

Pin assignment of plug connector lower part

Pin	Color code	Connection
1	–	–
2	–	–
3	RD	S1 (cosine +)
4	BU	S3 (cosine –)
5	YE	S2 (sine +)
6	GN	S4 (sine –)
7	VT	D –
8	BK	D +
9	RD	KTY +
10	BU	KTY –
11	PK	Voltage reference (GND)
12	GY	Supply voltage Vs

11.3.6 KK and KKS terminal box connection option



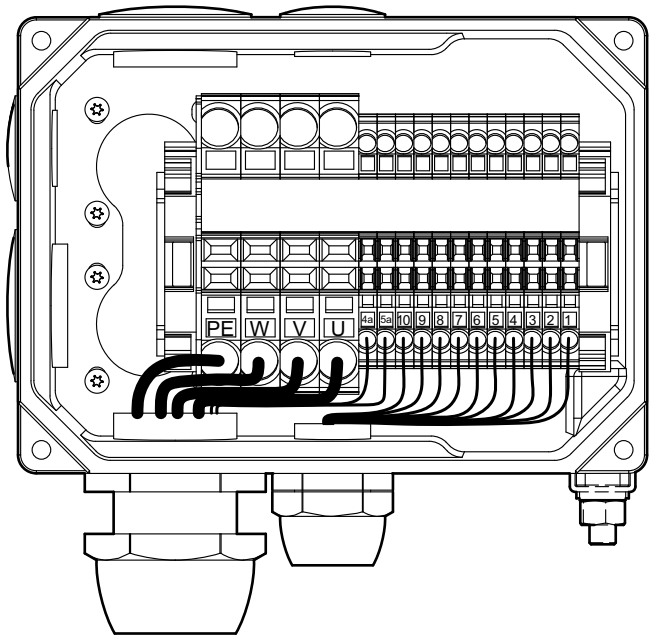
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11

Connection cross section

Motor type	Power connection			Encoder / resolver / thermal motor protection	
	Connection	Maximum connection cross section	Cable entry	Connection	Cable entry
CMP50, CMP63	Spring terminals	6 mm ²	M25	Spring terminals	M20
CMP71, CMP80	M6 stud	10 mm ²	M32		M16
CMP100	M8 stud	25 mm ²	M40		
CMP112S/M/L	M8 stud	35 mm ²	M50		
CMP112H/E	M10 stud	50 mm ²	M50		

11.3.7 Connection of CMP50 and CMP63



2900869771

Power

Pin	Core identification	Connection
U	(BK/WH) Black with white lettering U, V, W	U
V		V
W		W
PE	(GN/YE) Green/yellow	PE conductor

BP brake, BK brake

Auxiliary terminal contacts	Core identification		BMV brake rectifier connection	BS brake controller connection
	BP	BK		
4 a (RD)	+ (YE) Yellow	+ (RD) Red	13	3
5a (BU)	– (YE) Yellow	– (BU) Blue	15	5

The brake has a standard supply voltage of DC 24 V.

NOTICE

Damage to the BK brake.
Possible damage to property.

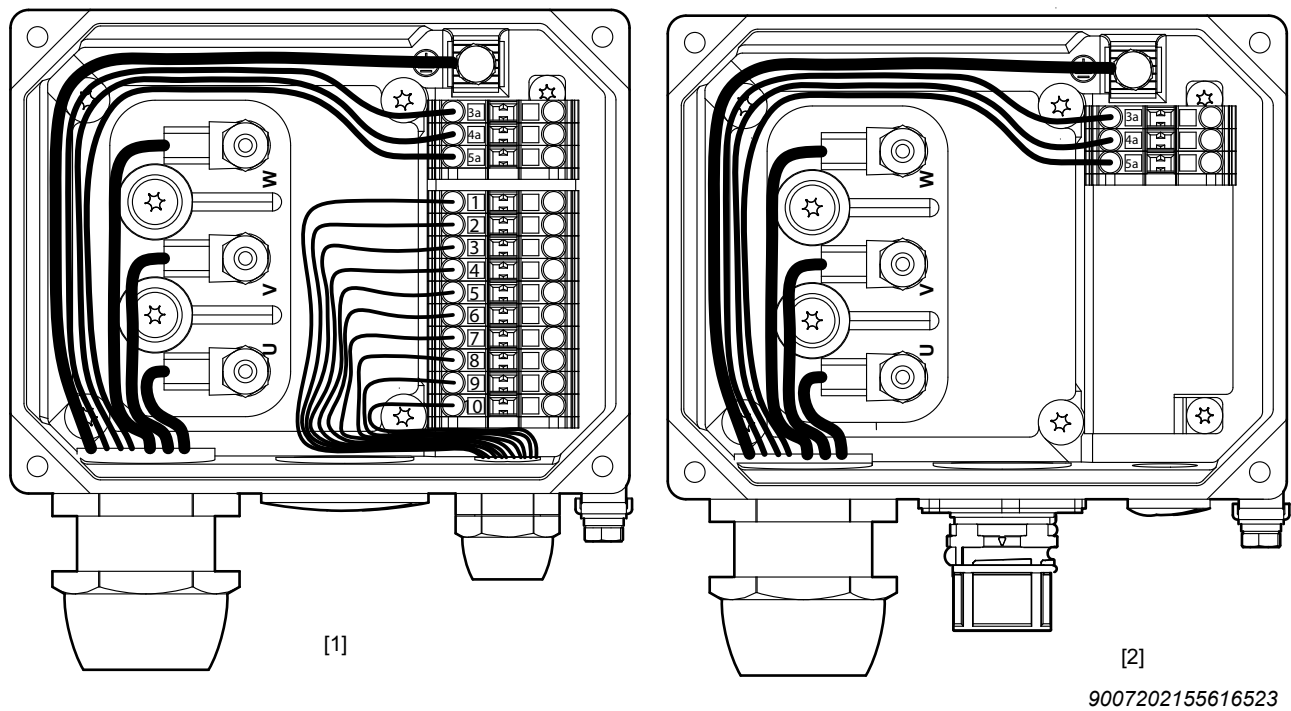
- It is essential that you observe the correct polarity of BK brake supply. Check the polarity when replacing the brake.

19381212/EN – 03/2015

Signal

Resolver			Encoder		
1	ref +	Reference	1	cos +	Cosine
2	ref -		2	ref cos	Reference
3	cos +	Cosine	3	sin +	Sine
4	cos -		4	ref sin	Reference
5	sin +	Sine	5	D -	DATA
6	sin -		6	D +	DATA
7	-	–	7	GND	Ground
8	-	–	8	Us	Supply voltage
9	KTY + / (TF)	Motor protection	9	KTY + / (TF)	Motor protection
10	KTY - / (TF)		10	KTY - / (TF)	

11.3.8 CMP71 – CMP112 connection



[1]

[2]

KK terminal box

KKS terminal box

Power rating

Pin	Core identification	Connection
U	(BK/WH) Black with white lettering U, V, W	U
V		V
W		W
PE	(GN/YE) Green/yellow	PE conductor

BP brake

Auxiliary terminal contacts	Core identification	BMV brake rectifier connection	BS brake controller connection
4 a	(BK/WH) Black with white lettering 1, 2, 3	13	3
5a		15	5

The brake has a standard supply voltage of DC 24 V.

19381212/EN – 03/2015

BY brake

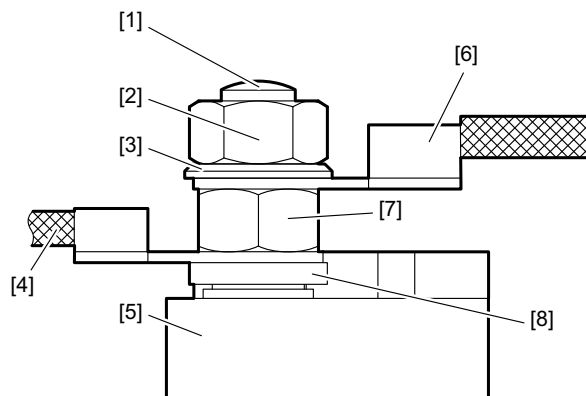
Auxiliary terminal contacts	Core identification	Connection of BME, BMP, BMH, BMK brake rectifiers	Connecting the BSG brake control unit
3 a	(BK/WH) Black with white lettering 1, 2, 3	14	1
4 a		13	3
5a		15	5

Signal

Resolver			Encoder		
1	ref +	Reference	1	cos +	Cosine
2	ref –		2	ref cos	Reference
3	cos +	Cosine	3	sin +	Sine
4	cos –		4	ref sin	Reference
5	sin +	Sine	5	D –	DATA
6	sin –		6	D +	DATA
7	–	–	7	GND	Ground
8	–	–	8	Us	Supply voltage
9	KTY + / (TF)	Motor protection	9	KTY + / (TF)	Motor protection
10	KTY – / (TF)		10	KTY – / (TF)	

11.3.9 Connection option via terminal box

The following figure shows the power connection in the terminal box.



9007202155623307

- | | |
|--------------------|----------------------|
| [1] Terminal studs | [5] Terminal board |
| [2] Upper nut | [6] Customer's cable |
| [3] Washer | [7] Bottom nut |
| [4] Motor cable | [8] Lock washer |

For designing the terminal box, positions 4, 6 and 7 are regarded as current-carrying.

11.4 Additional feature – forced-cooling fan

Type designation: /VR

11.4.1 Description

Synchronous servomotors can be equipped with a forced cooling fan if requested. The VR forced cooling fan is available for DC 24 V (CMP50 to CMP112, CMPZ71 to CMPZ100).

A forced cooling fan can be retrofitted to these motors later using a retrofit set.

For CMPZ71 to CMPZ100 motors, the forced cooling fan /VR option can no longer be combined with the manual brake release /HR option.

INFORMATION



The forced cooling fan can only be used up to a maximum oscillation and shock load of 1 g.

INFORMATION



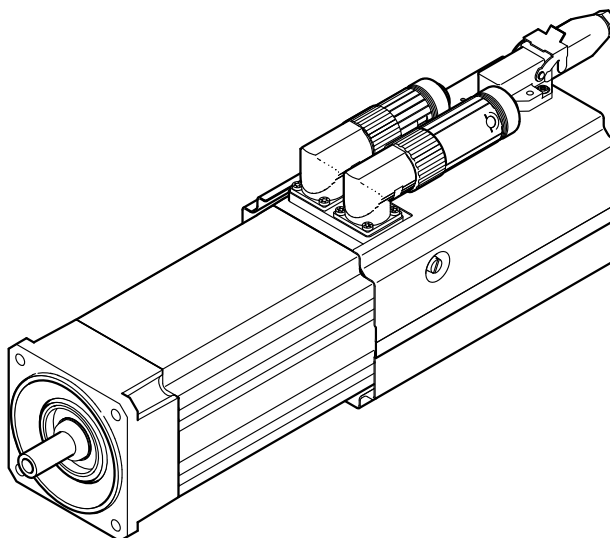
Before retrofitting a forced cooling fan, it is important to check whether the previously used motor plug connectors/cables are permitted for the increased current consumption.

11.4.2 Mechanical installation

Mounting the fan guard for the VR forced cooling fan:

Motor	Bolts	Tightening torque
CMP50, CMP63	M4 × 8 self-tapping	4 Nm
CMP.71	M6 × 20	4 Nm ¹⁾
CMP.80, CMP.100	M8 × 20	10 Nm ¹⁾
CMP112	M10 x 25	15 Nm ¹⁾

1) Additional Loctite thread locking compound



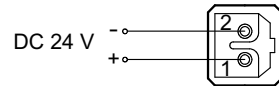
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19381212/EN – 03/2015

11.4.3 Electrical connection

The VR forced cooling fan is only available for DC 24 V voltage.

- DC 24 V $\pm$ 20%
- Plug connector connection
- Maximum connection cross section 2 x 1 mm²
- Pg7 cable gland with 7 mm inside diameter



Connector contact	Connection
1	24 V +
2	0 V

11

11.4.4 Retrofit set for CMP50 / CMP63

INFORMATION



The forced cooling fan retrofit set for motors CMP50 to CMP63 may only be mounted by staff authorized by SEW-EURODRIVE.

11.4.5 Forced cooling fan – technical data

Forced cooling fan type	VR					
Motor size	CMP50	CMP63	CMP.71	CMP.80	CMP.100	CMP112
Supply voltage DC	24 V $\pm$ 20%					
Current consumption DC	0.15 A	0.25 A	0.88 A	0.88 A	1.67 A	1.67 A
Power consumption	3.5 W	6 W	21 W	21 W	40 W	40 W
Air discharge rate	56 m ³ /h	80 m ³ /h	275 m ³ /h	275 m ³ /h	540 m ³ /h	540 m ³ /h
Ambient temperature	-20 °C to 60 °C					
Degree of protection	IP54 / IP55					
Electrical connection	Plug connector					
Max. cable cross section	3 x 1 mm ²					
Inner diameter of the cable gland	7 mm					

UWU52A switched-mode power supply

The AC voltage type includes a VR forced cooling fan and the UWU52A switched-mode power supply.

Input: AC 110 to 240 V; 1.04 to 0.63 A; 50/60 Hz

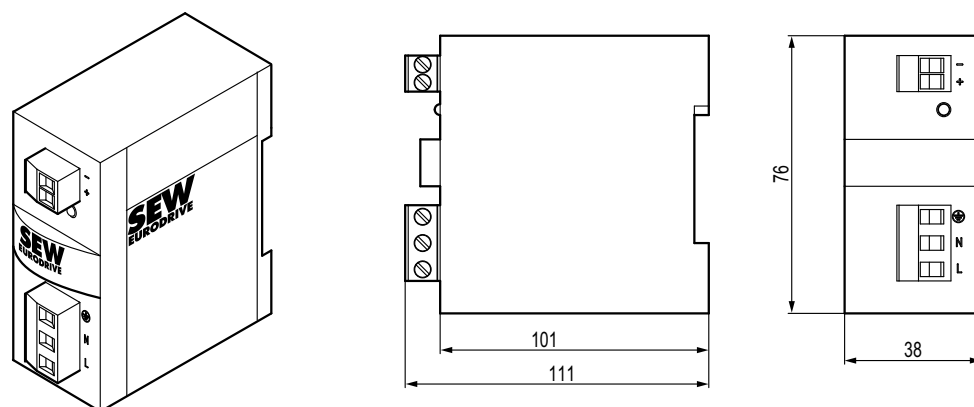
Output: DC 24 V; 2.5 A (40 °C); 2.0 A (55 °C)

Connection screw terminals 0.2 to 2.5 mm², separable.

Degree of protection: IP20; attachment to EN 60715 TH35 support rail in the control cabinet.

Part number: 0188 1817.

Dimensions of the UWU52A switched-mode power supply:



4816285067

Part numbers of forced cooling fan, complete

Forced cooling fan for motor type	Part number
CMP50	13328697
CMP63	13327569
CMP71	13337114
CMP.71 /BP1 /BY2	16447697
CMP80	16444841
CMP80 /BP3	16447751
CMPZ80 /BY4	16447735
CMP100	16444973
CMP.100 /BP5 /BY8	16447808
CMP112	16452178
CMP112 /BY14	16452194

Retrofit set for CMP50 to 100

INFORMATION



The forced cooling fan retrofit set for CMP50 to CMP63 motors may only be mounted by staff authorized by SEW-EURODRIVE.

The forced cooling fan retrofit set is supplied as follows:

- Forced cooling fan, cpl.
- Accessory bag

Retrofit set	
Content	Part number CMP50 VR kit
Forced cooling fan, cpl.	13332414
Machine screw M4x8-Tx-ST-A2F	
Lock washer	
Housing cover CMP50 / AS1H / ES1H / RH1M	
Bolt	
Washer	
Housing cover seal for CMP50	

Retrofit set	
Content	Part number CMP63 VR kit
Forced cooling fan, cpl.	13332422
Machine screw M4x8-Tx-ST-A2F	
Lock washer	
Housing cover CMP63 / AS1H / ES1H / RH1M	
Bolt	
Washer	
Housing cover gasket for CMP63	

Retrofit set		
Content	Part number CMP71 VR kit	Part number CMP.71 /BP1 /BY2
Forced cooling fan, cpl.	13355228	13355236
Cap screw M6x20-8.8-ADB3		
Grommet		
Sleeve		
Washer		

Retrofit set			
Content	Part number CMP80 VR kit	Part number CMP80 /BP3	Part number CMPZ80 /BY4
Forced cooling fan, cpl.	13355244	13355252	13355260
Cap screw M6x20-8.8-ADB3			
Grommet			
Sleeve			
Washer			

Retrofit set		
Content	Part number CMP100 VR kit	Part number CMP.100 /BP5 /BY8
Forced cooling fan, cpl.	13355279	13355287
Cap screw M6x20-8.8-ADB3		
Grommet		
Sleeve		
Washer		

Retrofit set		
Content	Part number CMP112	Part number CMP112 /BY14
Forced cooling fan, cpl.	13368354	13368362
Cap screw M10x25-8.8-A2F		
Damping plate		
Sleeve		
Washer		

12 Prefabricated cables

12.1 Description

SEW-EURODRIVE offers prefabricated cables with plugs for straightforward and reliable motor connection.

Cable and contact are connected using the crimp technique. The following cables are available in steps of 1 m:

- Motor cables
- Brakemotor cables
- Resolver/motor protection cables
- Absolute encoder/motor protection cables
- Forced cooling fan cables

Prefabricated cables are divided into:

- Power cables (motor cable, brakemotor cable, extension cable)
- Feedback cables (encoder cable, extension cable).

12

12.1.1 Preselection of cables

Prefabricated cables were preselected by SEW-EURODRIVE according to the standard EN 60204. The routing types "fixed installation" and "cable carrier installation" were considered.

Using other standards for the machine construction can result in diverging cross sections.

INFORMATION

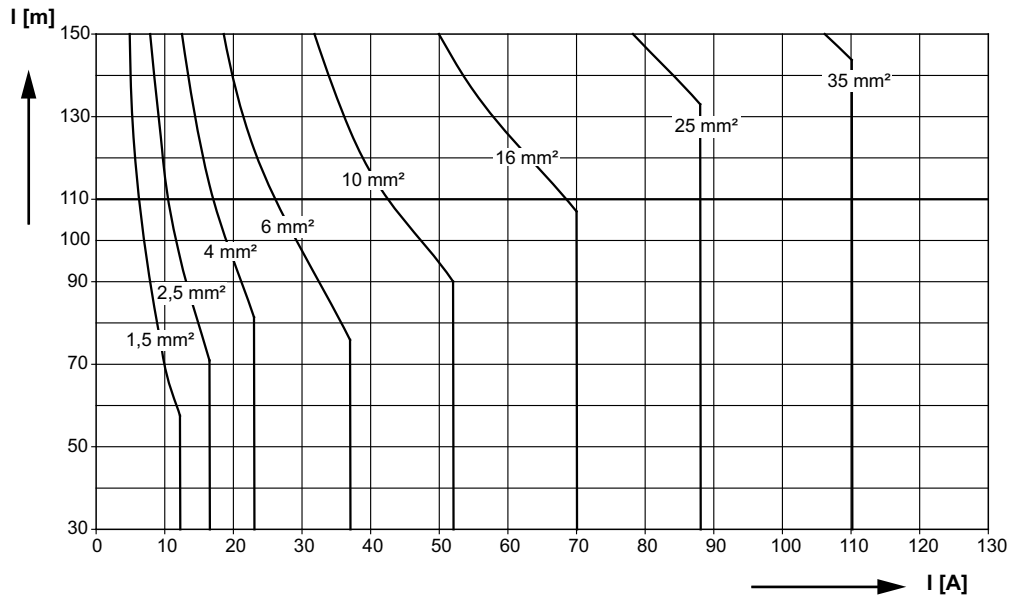


If the system requires UL approval, then the power cables between motor and inverter must have a minimum cross section of 2.5 mm² (AWG14) according to NEC430.22 (National Fire Protection Association; Edition 2011).

12.2 Project planning for cable cross section

12.2.1 Cable dimensioning to EN 60204

The following figure shows the minimum required cable cross section depending on cable length and current.



18014403327547531

Prefabricated cables with cross sections of 1.5 mm² to 35 mm² can be ordered from SEW-EURODRIVE.

Prefabricated brakemotor cables are available with a cross section of up to 16 mm².

12.2.2 Cable load table

Cable load through current I in ampere according to EN 60204-1 (edition 2006) table 6, ambient temperature 40 °C.

Cable cross section	Three-core sheathed cable in pipe or cable (B2)	Three-core sheathed cable on top of each other on wall (C)	Three-core sheathed cable lined up horizontally (E)
mm ²	A	A	A
1.5	13.1	15.2	16.1
2.5	17.4	21.	22
4	23	28	30
6	30	36	37
10	40	50	52
16	54	66	70
25	70	84	88
35	86	104	110
50	103	125	133
70	130	160	171

These data are merely recommended values and are **no substitute for the detailed project planning** of the incoming cables depending on the specific application considering the applicable regulations.

Observe the voltage drop along the cable in particular with the DC 24 V brake coil when dimensioning the cross sections for the brake cable. The acceleration current is decisive for the calculation.

12.2.3 General information on cable assignment tables

The values in the cable assignment tables are based on the values with a gray background in the "Cable load tables" (→ 343).

You find the connector assignment in the assignment tables of Connectors and terminal boxes (→ 316).

The limitation of the cable lengths results from the standard specifications relating to the voltage drop at I_0 / I_{0VR} (< 5 %) for cables according to EN60204-1 (edition 2008) and from the derating of the plug connectors.

If the system requires UL approval, then the power cables between motor and inverter must have a minimum cross section of 2.5 mm² (AWG14) according to NEC430.22 (National Fire Protection Association; Edition 2011).

12.3 Cable assignment: CMP and CMPZ, 400 V system voltage

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SM1
- 6 mm² to 16 mm²: SMB
- 16 mm² to 35 mm²: SMC

Motor	Rated speed	Standstill current I ₀	to cable length	Core cross section	Plug connector	Cable part no.		
	rpm					Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
		A	m	mm ²		Stand-alone motor		
CMP40S	3000	1.2	100	1.5	SM1	05904544	05906245	13332457
CMP40S	4500	1.2	100	1.5	SM1	05904544	05906245	13332457
CMP40S	6000	1.2	100	1.5	SM1	05904544	05906245	13332457
CMP40M	3000	0.95	100	1.5	SM1	05904544	05906245	13332457
CMP40M	4500	0.95	100	1.5	SM1	05904544	05906245	13332457
CMP40M	6000	1.1	100	1.5	SM1	05904544	05906245	13332457
CMP50S	3000	0.96	100	1.5	SM1	05904544	05906245	13332457
CMP50S	4500	1.32	100	1.5	SM1	05904544	05906245	13332457
CMP50S	6000	1.7	100	1.5	SM1	05904544	05906245	13332457
CMP50M	3000	1.68	100	1.5	SM1	05904544	05906245	13332457
CMP50M	4500	2.3	100	1.5	SM1	05904544	05906245	13332457
CMP50M	6000	3	100	1.5	SM1	05904544	05906245	13332457
CMP50L	3000	2.2	100	1.5	SM1	05904544	05906245	13332457
CMP50L	4500	3.15	100	1.5	SM1	05904544	05906245	13332457
CMP50L	6000	4.2	100	1.5	SM1	05904544	05906245	13332457
CMP63S	3000	2.15	100	1.5	SM1	05904544	05906245	13332457
CMP63S	4500	3.05	100	1.5	SM1	05904544	05906245	13332457
CMP63S	6000	3.9	100	1.5	SM1	05904544	05906245	13332457
CMP63M	3000	3.6	100	1.5	SM1	05904544	05906245	13332457
CMP63M	4500	5.4	100	1.5	SM1	05904544	05906245	13332457
CMP63M	6000	6.9	100	1.5	SM1	05904544	05906245	13332457
CMP63L	3000	4.95	100	1.5	SM1	05904544	05906245	13332457
CMP63L	4500	6.9	100	1.5	SM1	05904544	05906245	13332457
CMP63L	6000	9.3	75	1.5	SM1	05904544	05906245	13332457
CMP63L	6000	9.3	100	2.5	SM1	05904552	05906253	13332465
CMP.71S	2000	3.4	100	1.5	SM1	05904544	05906245	13332457
CMP.71S	3000	4.9	100	1.5	SM1	05904544	05906245	13332457
CMP.71S	4500	7.3	95	1.5	SM1	05904544	05906245	13332457
CMP.71S	4500	7.3	100	2.5	SM1	05904552	05906253	13332465
CMP.71S	6000	9.6	70	1.5	SM1	05904544	05906245	13332457
CMP.71S	6000	9.6	100	2.5	SM1	05904552	05906253	13332465
CMP.71M	2000	5	100	1.5	SM1	05904544	05906245	13332457
CMP.71M	3000	7.5	90	1.5	SM1	05904544	05906245	13332457
CMP.71M	3000	7.5	100	2.5	SM1	05904552	05906253	13332465
CMP.71M	4500	10.9	65	1.5	SM1	05904544	05906245	13332457
CMP.71M	4500	10.9	100	2.5	SM1	05904552	05906253	13332465
CMP.71M	6000	14.7	80	2.5	SM1	05904552	05906253	13332465
CMP.71M	6000	14.7	100	4	SM1	05904560	05904803	13332473
CMP.71L	2000	6.3	100	1.5	SM1	05904544	05906245	13332457
CMP.71L	3000	9.4	80	1.5	SM1	05904544	05906245	13332457
CMP.71L	3000	9.4	100	2.5	SM1	05904552	05906253	13332465
CMP.71L	4500	14.1	85	2.5	SM1	05904552	05906253	13332465
CMP.71L	4500	14.1	100	4	SM1	05904560	05904803	13332473
CMP.71L	6000	18.8	100	4	SM1	05904560	05904803	13332473
CMP.80S	2000	6.9	100	1.5	SM1	05904544	05906245	13332457

Motor	Rated speed	Standstill current I ₀	to cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
						Stand-alone motor		
CMP.80S	3000	10	70	1.5	SM1	05904544	05906245	13332457
CMP.80S	3000	10	100	2.5	SM1	05904552	05906253	13332465
CMP.80S	4500	15.3	80	2.5	SM1	05904552	05906253	13332465
CMP.80S	4500	15.3	100	4	SM1	05904560	05904803	13332473
CMP.80S	6000	20	95	4	SM1	05904560	05904803	13332473
CMP.80S	6000	20	100	6	SMB	13350269	13350293	13350021
CMP.80M	2000	9.3	75	1.5	SM1	05904544	05906245	13332457
CMP.80M	2000	9.3	100	2.5	SM1	05904552	05906253	13332465
CMP.80M	3000	13.4	90	2.5	SM1	05904552	05906253	13332465
CMP.80M	3000	13.4	100	4	SM1	05904560	05904803	13332473
CMP.80M	4500	20.1	95	4	SM1	05904560	05904803	13332473
CMP.80M	4500	20.1	100	6	SMB	13350269	13350293	13350021
CMP.80M	6000	26.4	100	6	SMB	13350269	13350293	13350021
CMP.80L	2000	12.5	90	2.5	SM1	05904552	05906253	13332465
CMP.80L	2000	12.5	100	4	SM1	05904560	05904803	13332473
CMP.80L	3000	18.7	100	4	SM1	05904560	05904803	13332473
CMP.80L	4500	27.8	100	6	SMB	13350269	13350293	13350021
CMP.80L	6000	37.6	100	10	SMB	13350277	13350307	13350048
CMP.100S	2000	13.3	85	2.5	SM1	05904552	05906253	13332465
CMP.100S	2000	13.3	100	4	SM1	05904560	05904803	13332473
CMP.100S	3000	19.6	95	4	SM1	05904560	05904803	13332473
CMP.100S	3000	19.6	100	6	SMB	13350269	13350293	13350021
CMP.100S	4500	30	98	6	SMB	13350269	13350293	13350021
CMP.100S	4500	30	100	10	SMB	13350277	13350307	13350048
CMP.100M	2000	14.7	75	2.5	SM1	05904552	05906253	13332465
CMP.100M	2000	14.7	100	4	SM1	05904560	05904803	13332473
CMP.100M	3000	21.8	85	4	SM1	05904560	05904803	13332473
CMP.100M	3000	21.8	100	6	SMB	13350269	13350293	13350021
CMP.100M	4500	33.1	90	6	SMB	13350269	13350293	13350021
CMP.100M	4500	33.1	100	10	SMB	13350277	13350307	13350048
CMP.100L	2000	21.8	100	6	SMB	13350269	13350293	13350021
CMP.100L	3000	32.3	90	6	SMB	13350269	13350293	13350021
CMP.100L	3000	32.3	100	10	SMB	13350277	13350307	13350048
CMP.100L	4500	48.4	98	10	SMB	13350277	13350307	13350048
CMP.100L	4500	48.4	100	16	SMC	18148476	18148484	18156819
CMP112S	2000	14.3	70	2.5	SM1	05904552	05906253	13332465
CMP112S	2000	14.3	100	4	SM1	05904560	05904803	13332473
CMP112S	3000	21	80	4	SM1	05904560	05904803	13332473
CMP112S	3000	21	100	6	SMB	13350269	13350293	13350021
CMP112S	4500	31.5	80	6	SMB	13350269	13350293	13350021
CMP112S	4500	31.5	100	10	SMB	13350277	13350307	13350048
CMP112M	2000	21	80	4	SM1	05904560	05904803	13332473
CMP112M	2000	21	100	6	SMB	13350269	13350293	13350021
CMP112M	3000	32	80	6	SMB	13350269	13350293	13350021
CMP112M	3000	32	100	10	SMB	13350277	13350307	13350048
CMP112M	4500	47	90	10	SMB	13350277	13350307	13350048
CMP112M	4500	47	100	16	SMB	13350285	13350315	13350056
CMP112M	4500	47	100	16	SMC	18148476	18148484	18156819
CMP112L	2000	33	75	6	SMB	13350269	13350293	13350021
CMP112L	2000	33	100	10	SMB	13350277	13350307	13350048
CMP112L	3000	49	85	10	SMB	13350277	13350307	13350048
CMP112L	3000	49	100	16	SMB	13350285	13350315	13350056

Motor	Rated speed	Standstill current I_0	to cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
						Stand-alone motor		
CMP112L	3000	49	100	16	SMC	18148476	18148484	18156819
CMP112L	4500	73	100	25	SMC	–	18148581	18156827
CMP112H	2000	38	100	10	SMB	13350277	13350307	13350048
CMP112H	3000	57	100	16	SMC	18148476	18148484	18156819
CMP112H	4500	86	100	35	SMC	–	18148697	18156835
CMP112E	2000	44.5	90	10	SMB	13350277	13350307	13350048
CMP112E	2000	44.5	100	16	SMB	13350285	13350315	13350056
CMP112E	2000	44.5	100	16	SMC	18148476	18148484	18156819
CMP112E	3000	65	80	16	SMC	18148476	18148484	18156819
CMP112E	3000	65	100	25	SMC	–	18148581	18156827
CMP112E	4500	98	100	35	–	–	–	–

1) Currently only cable carrier extension cables are offered

12.4 Cable assignment: CMP /VR and CMPZ /VR, 400 V system voltage

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SM1
- 6 mm² to 16 mm²: SMB
- 16 mm² to 35 mm²: SMC

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
CMP50S /VR	3000	1.25	100	1.5	SM1	05904544	05906245	13332457
CMP50S /VR	4500	1.7	100	1.5	SM1	05904544	05906245	13332457
CMP50S /VR	6000	2.2	100	1.5	SM1	05904544	05906245	13332457
CMP50M /VR	3000	2.45	100	1.5	SM1	05904544	05906245	13332457
CMP50M /VR	4500	3.35	100	1.5	SM1	05904544	05906245	13332457
CMP50M /VR	6000	4.4	100	1.5	SM1	05904544	05906245	13332457
CMP50L /VR	3000	3.2	100	1.5	SM1	05904544	05906245	13332457
CMP50L /VR	4500	4.6	100	1.5	SM1	05904544	05906245	13332457
CMP50L /VR	6000	6.1	100	1.5	SM1	05904544	05906245	13332457
CMP63S /VR	3000	3	100	1.5	SM1	05904544	05906245	13332457
CMP63S /VR	4500	4.2	100	1.5	SM1	05904544	05906245	13332457
CMP63S /VR	6000	5.4	100	1.5	SM1	05904544	05906245	13332457
CMP63M /VR	3000	5.1	100	1.5	SM1	05904544	05906245	13332457
CMP63M /VR	4500	7.6	90	1.5	SM1	05904544	05906245	13332457
CMP63M /VR	4500	7.6	100	2.5	SM1	05904552	05906253	13332465
CMP63M /VR	6000	9.8	70	1.5	SM1	05904544	05906245	13332457
CMP63M /VR	6000	9.8	100	2.5	SM1	05904552	05906253	13332465
CMP63L /VR	3000	7.2	95	1.5	SM1	05904544	05906245	13332457
CMP63L /VR	3000	7.2	100	2.5	SM1	05904552	05906253	13332465
CMP63L /VR	4500	10	70	1.5	SM1	05904544	05906245	13332457
CMP63L /VR	4500	10	100	2.5	SM1	05904552	05906253	13332465
CMP63L /VR	6000	13.5	85	2.5	SM1	05904552	05906253	13332465
CMP63L /VR	6000	13.5	100	4	SM1	05904560	05904803	13332473
CMP.71S /VR	2000	4.6	100	1.5	SM1	05904544	05906245	13332457
CMP.71S /VR	3000	6.7	100	1.5	SM1	05904544	05906245	13332457
CMP.71S /VR	4500	9.9	70	1.5	SM1	05904544	05906245	13332457
CMP.71S /VR	4500	9.9	100	2.5	SM1	05904552	05906253	13332465
CMP.71S /VR	6000	13.1	85	2.5	SM1	05904552	05906253	13332465
CMP.71S /VR	6000	13.1	100	4	SM1	05904560	05904803	13332473
CMP.71M /VR	2000	7.3	95	1.5	SM1	05904544	05906245	13332457
CMP.71M /VR	2000	7.3	100	2.5	SM1	05904552	05906253	13332465
CMP.71M/VR	3000	10.9	60	1.5	SM1	05904544	05906245	13332457
CMP.71M /VR	3000	10.9	100	2.5	SM1	05904552	05906253	13332465
CMP.71M /VR	4500	15.9	70	2.5	SM1	05904552	05906253	13332465
CMP.71M /VR	4500	15.9	100	4	SM1	05904560	05904803	13332473
CMP.71M /VR	6000	21.5	85	4	SM1	05904560	05904803	13332473
CMP.71M /VR	6000	21.5	100	6	SMB	13350269	13350293	13350021
CMP.71L /VR	2000	10.1	65	1.5	SM1	05904544	05906245	13332457
CMP.71L /VR	2000	10.1	100	2.5	SM1	05904552	05906253	13332465
CMP.71L /VR	3000	15.1	75	2.5	SM1	05904552	05906253	13332465
CMP.71L /VR	3000	15.1	100	4	SM1	05904560	05904803	13332473
CMP.80S /VR	2000	9.5	70	1.5	SM1	05904544	05906245	13332457
CMP.80S /VR	2000	9.5	100	2.5	SM1	05904552	05906253	13332465
CMP.80S /VR	3000	13.8	80	2.5	SM1	05904552	05906253	13332465
CMP.80S /VR	3000	13.8	100	4	SM1	05904560	05904803	13332473

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
CMP.80S /VR	4500	21	85	4	SM1	05904560	05904803	13332473
CMP.80S /VR	4500	21	100	6	SMB	13350269	13350293	13350021
CMP.80S /VR	6000	27.5	100	6	SMB	13350269	13350293	13350021
CMP.80M /VR	2000	13.4	85	2.5	SM1	05904552	05906253	13332465
CMP.80M /VR	2000	13.4	100	4	SM1	05904560	05904803	13332473
CMP.80M /VR	3000	19.3	95	4	SM1	05904560	05904803	13332473
CMP.80M /VR	3000	19.3	100	6	SMB	13350269	13350293	13350021
CMP.80M /VR	4500	29	95	6	SMB	13350269	13350293	13350021
CMP.80M /VR	4500	29	100	10	SMB	13350277	13350307	13350048
CMP.80M /VR	6000	38	100	10	SMB	13350277	13350307	13350048
CMP.80L /VR	2000	20	90	4	SM1	05904560	05904803	13332473
CMP.80L /VR	2000	20	100	6	SMB	13350269	13350293	13350021
CMP.80L /VR	3000	30	90	6	SMB	13350269	13350293	13350021
CMP.80L /VR	3000	30	100	10	SMB	13350277	13350307	13350048
CMP.80L /VR	4500	44.5	100	10	SMB	13350277	13350307	13350048
CMP.100S /VR	2000	18.8	95	4	SM1	05904560	05904803	13332473
CMP.100S /VR	2000	18.8	100	6	SMB	13350269	13350293	13350021
CMP.100S /VR	3000	27.5	100	6	SMB	13350269	13350293	13350021
CMP.100S /VR	4500	42.5	100	10	SMB	13350277	13350307	13350048
CMP.100M /VR	2000	22.3	100	6	SMB	13350269	13350293	13350021
CMP.100M /VR	3000	33	85	6	SMB	13350269	13350293	13350021
CMP.100M /VR	3000	33	100	10	SMB	13350277	13350307	13350048
CMP.100M /VR	4500	72	100	35	SMC	–	18148697	–
CMP.100M/ VR	4500	50	100	16	SMB	13350285	13350315	13350056
CMP.100M/ VR	4500	50	100	16	SMC	18148476	18148484	18156819
CMP.100L /VR	2000	32.5	85	6	SMB	13350269	13350293	13350021
CMP.100L /VR	2000	32.5	100	10	SMB	13350277	13350307	13350048
CMP.100L /VR	3000	48	95	10	SMB	13350277	13350307	13350048
CMP.100L /VR	3000	48	100	16	SMB	13350285	13350315	13350056
CMP.100L/VR	4500	72	100	25	SMC	–	18148581	18156827
CMP112S/ VR	2000	21	80	4	SM1	05904560	05904803	13332473
CMP112S/ VR	2000	21	100	6	SMB	13350269	13350293	13350021
CMP112S/ VR	3000	30.5	80	6	SMB	13350269	13350293	13350021
CMP112S/ VR	3000	30.5	100	10	SMB	13350277	13350307	13350048
CMP112S/ VR	4500	45.5	90	10	SMB	13350277	13350307	13350048
CMP112S/ VR	4500	45.5	100	16	SMB	13350285	13350315	13350056
CMP112S/ VR	4500	45.5	100	16	SMC	18148476	18148484	18156819
CMP112M/ VR	2000	32	80	6	SMB	13350269	13350293	13350021
CMP112M/ VR	2000	32	100	10	SMB	13350277	13350307	13350048
CMP112M/ VR	3000	49	85	10	SMB	13350277	13350307	13350048
CMP112M/ VR	3000	49	100	16	SMB	13350285	13350315	13350056
CMP112M/ VR	3000	49	100	16	SMC	18148476	18148484	18156819
CMP112M/ VR	4500	72	100	25	SMC	–	18148581	18156827
CMP112L/ VR	2000	52	100	16	SMC	18148476	18148484	18156819
CMP112L/ VR	3000	77	100	25	SMC	–	18148581	18156827
CMP112L/ VR	4500	114	100	50	–	–	–	–
CMP112H/ VR	2000	57	100	16	SMC	18148476	18148484	18156819
CMP112H/ VR	3000	84	100	35	SMC	–	18148697	18156835
CMP112H/ VR	4500	128	100	50	–	–	–	–
CMP112E/ VR	2000	71	100	25	SMC	–	18148581	18156827
CMP112E/ VR	3000	104	100	35	–	–	–	–

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
						Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
	rpm	A	m	mm ²		Stand-alone motor		
CMP112E/ VR	4500	156	100	50	–	–	–	–

1) Currently only cable carrier extension cables are offered

12.5 Cable assignment: CMP /BP /BK, 400 V system voltage

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SB1
- 6 mm² to 16 mm²: SBB

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
							Brakemotor	
CMP40S /BK	3000	1.2	100	1.5	SB1	13354345	13354388	13354221
CMP40S /BK	4500	1.2	100	1.5	SB1	13354345	13354388	13354221
CMP40S /BK	6000	1.2	100	1.5	SB1	13354345	13354388	13354221
CMP40M /BK	3000	0.95	100	1.5	SB1	13354345	13354388	13354221
CMP40M /BK	4500	0.95	100	1.5	SB1	13354345	13354388	13354221
CMP40M /BK	6000	1.1	100	1.5	SB1	13354345	13354388	13354221
CMP50S /BK	3000	0.96	100	1.5	SB1	13354345	13354388	13354221
CMP50S /BK	4500	1.32	100	1.5	SB1	13354345	13354388	13354221
CMP50S /BK	6000	1.7	100	1.5	SB1	13354345	13354388	13354221
CMP50M /BK	3000	1.68	100	1.5	SB1	13354345	13354388	13354221
CMP50M /BK	4500	2.3	100	1.5	SB1	13354345	13354388	13354221
CMP50M /BK	6000	3	100	1.5	SB1	13354345	13354388	13354221
CMP50L /BK	3000	2.2	100	1.5	SB1	13354345	13354388	13354221
CMP50L /BK	4500	3.15	100	1.5	SB1	13354345	13354388	13354221
CMP50L /BK	6000	4.2	100	1.5	SB1	13354345	13354388	13354221
CMP63S /BK	3000	2.15	100	1.5	SB1	13354345	13354388	13354221
CMP63S /BK	4500	3.05	100	1.5	SB1	13354345	13354388	13354221
CMP63S /BK	6000	3.9	100	1.5	SB1	13354345	13354388	13354221
CMP63M /BK	3000	3.6	100	1.5	SB1	13354345	13354388	13354221
CMP63M /BK	4500	5.4	100	1.5	SB1	13354345	13354388	13354221
CMP63M /BK	6000	6.9	100	1.5	SB1	13354345	13354388	13354221
CMP63L /BK	3000	4.95	100	1.5	SB1	13354345	13354388	13354221
CMP63L /BK	4500	6.9	100	1.5	SB1	13354345	13354388	13354221
CMP63L /BK	6000	9.3	75	1.5	SB1	13354345	13354388	13354221
CMP63L /BK	6000	9.3	100	2.5	SB1	13354353	13354396	13354248
CMP71S /BP	2000	3.4	80	1.5	SB1	13354345	13354388	13354221
CMP71S /BP	3000	4.9	80	1.5	SB1	13354345	13354388	13354221
CMP71S /BP	4500	7.3	80	1.5	SB1	13354345	13354388	13354221
CMP71S /BP	4500	7.3	80	2.5	SB1	13354353	13354396	13354248
CMP71S /BP	6000	9.6	70	1.5	SB1	13354345	13354388	13354221
CMP71S /BP	6000	9.6	80	2.5	SB1	13354353	13354396	13354248
CMP71M /BP	2000	5	80	1.5	SB1	13354345	13354388	13354221
CMP71M /BP	3000	7.5	80	1.5	SB1	13354345	13354388	13354221
CMP71M /BP	3000	7.5	80	2.5	SB1	13354353	13354396	13354248
CMP71M /BP	4500	10.9	65	1.5	SB1	13354345	13354388	13354221
CMP71M /BP	4500	10.9	80	2.5	SB1	13354353	13354396	13354248
CMP71M /BP	6000	14.7	80	2.5	SB1	13354353	13354396	13354248
CMP71M /BP	6000	14.7	80	4	SB1	13354361	13421603	13354337
CMP71L /BP	2000	6.3	80	1.5	SB1	13354345	13354388	13354221
CMP71L /BP	3000	9.4	80	1.5	SB1	13354345	13354388	13354221
CMP71L /BP	3000	9.4	80	2.5	SB1	13354353	13354396	13354248
CMP71L /BP	4500	14.1	80	2.5	SB1	13354353	13354396	13354248
CMP71L /BP	4500	14.1	80	4	SB1	13354361	13421603	13354337
CMP71L /BP	6000	18.8	80	4	SB1	13354361	13421603	13354337
CMP80S /BP	2000	6.9	55	1.5	SB1	13354345	13354388	13354221
CMP80S /BP ²⁾	3000	10	55	1.5	SB1	1335 4345	1335 4388	1335 4221

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
						Brakemotor		
CMP80S /BP	3000	10	55	2.5	SB1	1335 4353	1335 4396	1335 4248
CMP80S /BP	4500	15.3	55	2.5	SB1	1335 4353	1335 4396	1335 4248
CMP80S /BP	4500	15.3	55	4	SB1	1335 4361	13421603	1335 4337
CMP80M /BP	2000	9.3	55	1.5	SB1	1335 4345	1335 4388	1335 4221
CMP80M /BP	2000	9.3	55	2.5	SB1	1335 4353	1335 4396	1335 4248
CMP80M /BP	3000	13.4	55	2.5	SB1	1335 4353	1335 4396	1335 4248
CMP80M /BP	3000	13.4	55	4	SB1	1335 4361	13421603	1335 4337
CMP80M /BP	4500	20.1	55	4	SB1	1335 4361	13421603	1335 4337
CMP80M /BP	4500	20.1	85	6	SBB	1335 0196	1335 0234	1335 0099
CMP80L /BP	2000	12.5	55	2.5	SB1	1335 4353	1335 4396	1335 4248
CMP80L /BP	2000	12.5	55	4	SB1	1335 4361	13421603	1335 4337
CMP80L /BP	3000	18.7	55	4	SB1	1335 4361	13421603	1335 4337
CMP80L /BP	4500	27.8	85	6	SB1	1335 0196	1335 0234	1335 0099
CMP100S /BP	2000	13.3	45	2.5	SB1	1335 4353	1335 4396	1335 4248
CMP100S /BP	2000	13.3	45	4	SB1	1335 4361	13421603	1335 4337
CMP100S /BP	3000	19.6	45	4	SB1	1335 4361	13421603	1335 4337
CMP100S /BP	3000	19.6	70	6	SBB	1335 0196	1335 0234	1335 0099
CMP100S /BP	4500	30	70	6	SBB	1335 0196	1335 0234	1335 0099
CMP100S /BP	4500	30	70	10	SBB	1335 0218	1335 0242	1335 0102
CMP100M /BP	2000	14.7	45	2.5	SB1	1335 4353	1335 4396	1335 4248
CMP100M /BP	2000	14.7	45	4	SB1	1335 4361	13421603	1335 4337
CMP100M /BP	3000	21.8	45	4	SB1	1335 4361	13421603	1335 4337
CMP100M /BP	3000	21.8	70	6	SBB	1335 0196	03350234	1335 0099
CMP100M /BP	4500	33.1	70	6	SBB	1335 0196	1335 0234	1335 0099
CMP100M /BP	4500	33.1	70	10	SBB	1335 0218	1335 0242	1335 0102
CMP100L /BP	2000	21.8	70	6	SBB	1335 0196	1335 0234	1335 0099
CMP100L /BP	3000	32.3	70	6	SBB	1335 0196	1335 0234	1335 0099
CMP100L /BP	3000	32.3	70	10	SBB	1335 0218	1335 0242	1335 0102
CMP100L /BP	4500	48.4	70	10	SBB	1335 0218	1335 0242	1335 0102
CMP100L /BP	4500	48.4	70	16	SBB	1335 0226	1335 0250	1335 0110

1) Currently only cable carrier extension cables are offered

2) The maximum cable length can be increased to 70 m or 85 m if a cable with a core cross section of 6 mm is used (change from SB1 to SBB). In this case, the brake cable cross section increases from 1 mm to 1.5 mm

12.6 Cable assignment: CMP /BP / BK /VR, 400 V system voltage

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SB1
- 6 mm² to 16 mm²: SBB

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
	rpm	A	m	mm ²		Brakemotor		
CMP50S /BK /VR	3000	1.25	100	1.5	SB1	13354345	13354388	13354221
CMP50S /BK /VR	4500	1.7	100	1.5	SB1	13354345	13354388	13354221
CMP50S /BK /VR	6000	2.2	100	1.5	SB1	13354345	13354388	13354221
CMP50M /BK /VR	3000	2.45	100	1.5	SB1	13354345	13354388	13354221
CMP50M /BK /VR	4500	3.35	100	1.5	SB1	13354345	13354388	13354221
CMP50M /BK /VR	6000	4.4	100	1.5	SB1	13354345	13354388	13354221
CMP50L /BK /VR	3000	3.2	100	1.5	SB1	13354345	13354388	13354221
CMP50L /BK /VR	4500	4.6	100	1.5	SB1	13354345	13354388	13354221
CMP50L /BK /VR	6000	6.1	100	1.5	SB1	13354345	13354388	13354221
CMP63S /BK /VR	3000	3	100	1.5	SB1	13354345	13354388	13354221
CMP63S /BK /VR	4500	4.2	100	1.5	SB1	13354345	13354388	13354221
CMP63S /BK /VR	6000	5.4	100	1.5	SB1	13354345	13354388	13354221
CMP63M /BK /VR	3000	5.1	100	1.5	SB1	13354345	13354388	13354221
CMP63M /BK /VR	4500	7.6	90	1.5	SB1	13354345	13354388	13354221
CMP63M /BK /VR	4500	7.6	100	2.5	SB1	13354353	13354396	13354248
CMP63M /BK /VR	6000	9.8	70	1.5	SB1	13354345	13354388	13354221
CMP63M /BK /VR	6000	9.8	100	2.5	SB1	13354353	13354396	13354248
CMP63L /BK /VR	3000	7.2	95	1.5	SB1	13354345	13354388	13354221
CMP63L /BK /VR	3000	7.2	100	2.5	SB1	13354353	13354396	13354248
CMP63L /BK /VR	4500	10	70	1.5	SB1	13354345	13354388	13354221
CMP63L /BK /VR	4500	10	100	2.5	SB1	13354353	13354396	13354248
CMP63L /BK /VR	6000	13.5	85	2.5	SB1	13354353	13354396	13354248
CMP63L /BK /VR	6000	13.5	100	4	SB1	13354361	13421603	13354337
CMP71S /BP /VR	2000	4.6	80	1.5	SB1	13354345	13354388	13354221
CMP71S /BP /VR	3000	6.7	80	1.5	SB1	13354345	13354388	13354221
CMP71S /BP /VR	4500	9.9	70	1.5	SB1	13354345	13354388	13354221
CMP71S /BP /VR	4500	9.9	80	2.5	SB1	13354353	13354396	13354248
CMP71S /BP /VR	6000	13.1	80	2.5	SB1	13354353	13354396	13354248
CMP71S /BP /VR	6000	13.1	80	4	SB1	13354361	13421603	13354337
CMP71M /BP /VR	2000	7.3	80	1.5	SB1	13354345	13354388	13354221
CMP71M /BP /VR	2000	7.3	80	2.5	SB1	13354353	13354396	13354248
CMP71M /BP /VR	3000	10.9	60	1.5	SB1	13354345	13354388	13354221
CMP71M /BP /VR	3000	10.9	80	2.5	SB1	13354353	13354396	13354248
CMP71M /BP /VR	4500	15.9	70	2.5	SB1	13354353	13354396	13354248
CMP71M /BP /VR	4500	15.9	80	4	SB1	13354361	13421603	13354337
CMP71M /BP /VR	6000	21.5	80	4	SB1	13354361	13421603	13354337
CMP71L /BP /VR	2000	10.1	65	1.5	SB1	13354345	13354388	13354221
CMP71L /BP /VR	2000	10.1	100	2.5	SB1	13354353	13354396	13354248
CMP71L /BP /VR	3000	15.1	75	2.5	SB1	13354353	13354396	13354248
CMP71L /BP /VR	3000	15.1	80	4	SB1	13354361	13421603	13354337
CMP80S /BP /VR	2000	9.5	55	1.5	SB1	13354345	13354388	13354221
CMP80S /BP /VR	2000	9.5	55	2.5	SB1	13354353	13354396	13354248
CMP80S /BP ²⁾ /VR	3000	13.8	55	2.5	SB1	13354353	13354396	13354248
CMP80S /BP /VR	3000	13.8	55	4	SB1	13354361	13421603	13354337
CMP80S /BP /VR	4500	21	55	4	SB1	13354361	13421603	13354337
CMP80S /BP /VR	4500	21	85	6	SBB	13350196	13350234	13350099

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
						Brakemotor		
CMP80M /BP /VR	2000	13.4	55	2.5	SB1	13354353	13354396	13354248
CMP80M /BP /VR	2000	13.4	50	4	SB1	13354361	13421603	13354337
CMP80M /BP /VR	3000	19.3	55	4	SB1	13354361	13421603	13354337
CMP80M /BP /VR	3000	19.3	85	6	SBB	13350196	13350234	13350099
CMP80M /BP /VR	4500	29	85	6	SBB	13350196	13350234	13350099
CMP80M /BP /VR	4500	29	85	10	SBB	13350218	13350242	13350102
CMP80L /BP /VR	2000	20	55	4	SB1	13354361	13421603	13354337
CMP80L /BP /VR	2000	20	85	6	SBB	13350196	13350234	13350099
CMP80L /BP /VR	3000	30	85	6	SBB	13350196	13350234	13350099
CMP80L /BP /VR	3000	30	85	10	SBB	13350218	13350242	13350102
CMP80L /BP /VR	4500	44.5	85	10	SBB	13350218	13350242	13350102
CMP100S /BP /VR	2000	18.8	45	4	SB1	13354361	13421603	13354337
CMP100S /BP /VR	2000	18.8	70	6	SBB	13350196	13350234	13350099
CMP100S /BP /VR	3000	27.5	70	6	SBB	13350196	13350234	13350099
CMP100S /BP /VR	4500	42.5	70	10	SBB	13350218	13350242	13350102
CMP100M /BP /VR	2000	22.3	70	6	SBB	13350196	13350234	13350099
CMP100M /BP /VR	3000	33	70	6	SBB	13350196	13350234	13350099
CMP100M /BP /VR	3000	33	70	10	SBB	13350218	13350242	13350102
CMP100L /BP /VR	2000	32.5	70	6	SBB	13350196	13350234	13350099
CMP100L /BP /VR	2000	32.5	70	10	SBB	13350218	13350242	13350102
CMP100L /BP /VR	3000	48	70	10	SBB	13350218	13350242	13350102
CMP100L /BP /VR	3000	48	70	16	SBB	13350226	13350250	13350110

1) Currently only cable carrier extension cables are offered

2) The maximum cable length can be increased to 70 m or 85 m if a cable with a core cross section of 6 mm is used (change from SB1 to SBB connector). In this case, the brake cable cross section increases from 1 mm to 1.5 mm.

12.7 Cable assignment: CMP /BY, 400 V system voltage

The following table allows for selecting power cables for CMP servo brakemotors with a system voltage of 400 V and a BY brake with 400 V, 230 V or 110 V brake voltage.

An additional length for 110 V is specified in parenthesis for cases where the permitted cable length for 110 V is shorter than for 400 V/230 V.

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SB1
- 6 mm² to 16 mm²: SBB
- 16 mm² to 35 mm²: SBC

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Fixed routing	Cable part no.	Cable carrier extension ¹⁾
	rpm	A	m	mm ²		Brakemotor		
CMP112S/ BY	2000	14.3	50	2.5	SB1	13354280	13354310	13354248
CMP112S/ BY	3000	21	50	4	SB1	13354299	13354329	13354337
CMP112S/ BY	4500	31.5	80	6	SBB	13350129	13350153	13350099
CMP112M/ BY	2000	21	50	4	SB1	13354299	13354329	13354337
CMP112M/ BY	3000	32	80	6	SBB	13350129	13350153	13350099
CMP112M/ BY	4500	47	80	10	SBB	13350137	13350161	13350102
CMP112L/ BY	2000	33	75	6	SBB	13350129	13350153	13350099
CMP112L/ BY	2000	33	80	10	SBB	13350137	13350161	13350102
CMP112L/ BY	3000	49	80	10	SBB	13350137	13350161	13350102
CMP112L/ BY	4500	73	80	25	SBC	–	–	–
CMP112H/ BY	2000	38	80	10	SBB	13350137	13350161	13350102
CMP112H/ BY	3000	57	80	16	SBC	18148514	18148522	18156843
CMP112H/ BY	4500	86	80	35	–	–	–	–
CMP112E/ BY	2000	44.5	80	10	SBB	13350137	13350161	13350102
CMP112E/ BY	3000	65	80	16	SBC	18148514	18148522	18156843
CMP112E/ BY	4500	98	80	35	–	–	–	–

1) Currently only cable carrier extension cables are offered

Permitted cable lengths for DC 24 V BY working brakes are especially reduced. Note the following guidelines:

CMP112 /BY: between 4 and 6 m depending on the cable cross section

For project planning with DC 24 V BY working brake, consult SEW-EURODRIVE.

12.8 Cable assignment: CMP /BY /VR, 400 V system voltage

The following table allows for selecting power cables for CMP servo brakemotors with a system voltage of 400 V and a BY brake with 400 V, 230 V or 110 V brake voltage.

An additional length for 110 V is specified in parenthesis for cases where the permitted cable length for 110 V is shorter than for 400 V/230 V.

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SB1
- 6 mm² to 16 mm²: SBB
- 16 mm² to 35 mm²: SBC

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Fixed routing	Cable part no. Cable carrier installation	Cable carrier extension ¹⁾
	rpm	A	m	mm ²		Brakemotor		
CMP112S/ BY/ VR	2000	21	50	4	SB1	13354299	13354329	13354337
CMP112S/ BY/ VR	3000	30.5	80	6	SBB	13350137	13350153	13350099
CMP112S/ BY/ VR	4500	45.5	80	10	SBB	13350137	13350161	13350102
CMP112M/ BY/ VR	2000	32	80	6	SBB	13350137	13350153	13350099
CMP112M/ BY/ VR	3000	49	80	10	SBB	13350137	13350161	13350102
CMP112M/ BY/ VR	4500	72	80	25	SBC	–	–	–
CMP112L/ BY/ VR	2000	52	80	16	SBC	18148514	18148522	18156843
CMP112L/ BY/ VR	3000	77	80	25	SBC	–	–	–
CMP112L/ BY/ VR	4500	114	80	50	–	–	–	–
CMP112H/ BY/ VR	2000	57	80	16	SBC	18148514	18148522	18156843
CMP112H/ BY/ VR	3000	84	80	35	SBC	–	–	–
CMP112H/ BY/ VR	4500	128	80	50	–	–	–	–
CMP112E/ BY/ VR	2000	71	80	25	SBC	–	–	–
CMP112E/ BY/ VR	3000	104	80	35	–	–	–	–
CMP112E/ BY/ VR	4500	156	80	50	–	–	–	–

1) Currently only cable carrier extension cables are offered

Permitted cable lengths for DC 24 V BY working brakes are especially reduced. Note the following guidelines:

CMP112 /BY: between 4 and 6 m depending on the cable cross section

For project planning with DC 24 V BY working brake, consult SEW-EURODRIVE.

12.9 Cable assignment: CMPZ /BY, 400 V system voltage

The following table allows for selecting power cables for CMP servo brakemotors with a system voltage of 400 V and a BY brake with 400 V, 230 V or 110 V brake voltage.

An additional length for 110 V is specified in parenthesis for cases where the permitted cable length for 110 V is shorter than for 400 V/230 V.

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SM1
- 6 mm² to 16 mm²: SMB
- 16 mm² to 35 mm²: SMC

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Fixed routing	Cable part no.	
	rpm						A	m
		Brakemotor						
CMPZ71S /BY	2000	3.4	100	1.5	SM1	13354272	13354302	13354221
CMPZ71S /BY	3000	4.9	100	1.5	SM1	13354272	13354302	13354221
CMPZ71S /BY	4500	7.3	96	1.5	SM1	13354272	13354302	13354221
CMPZ71S /BY	4500	7.3	100	2.5	SM1	13354280	13354310	13354248
CMPZ71S /BY	6000	9.6	73	1.5	SM1	13354272	13354302	13354221
CMPZ71S /BY	6000	9.6	100	2.5	SM1	13354280	13354310	13354248
CMPZ71M /BY	2000	5	100	1.5	SM1	13354272	13354302	13354221
CMPZ71M /BY	3000	7.5	93	1.5	SM1	13354272	13354302	13354221
CMPZ71M /BY	3000	7.5	100	2.5	SM1	13354280	13354310	13354248
CMPZ71M /BY	4500	10.9	64	1.5	SM1	13354272	13354302	13354221
CMPZ71M /BY	4500	10.9	100	2.5	SM1	1335 4280	13354310	13354248
CMPZ71M /BY	6000	14.7	79	2.5	SM1	1335 4280	13354310	13354248
CMPZ71M /BY	6000	14.7	100	4	SM1	1335 4299	13354329	13354337
CMPZ71L /BY	2000	6.3	100	1.5	SM1	1335 4272	13354302	13354221
CMPZ71L /BY	3000	9.4	74	1.5	SM1	1335 4272	13354302	13354221
CMPZ71L /BY	3000	9.4	100	2.5	SM1	1335 4280	13354310	13354248
CMPZ 71L /BY	4500	14.1	83	2.5	SM1	1335 4280	13354310	13354248
CMPZ 71L /BY	4500	14.1	100	4	SM1	1335 4299	13354329	13354337
CMPZ71L /BY	6000	18.8	100	4	SM1	1335 4299	13354329	13354337
CMPZ80S /BY	2000	6.9	100	1.5	SM1	1335 4272	13354302	13354221
CMPZ80S /BY	3000	10	70	1.5	SM1	1335 4272	13354302	13354221
CMPZ80S /BY	3000	10	100 (75)	2.5	SM1	1335 4280	13354310	13354248
CMPZ80S /BY	4500	15.3	76 (75)	2.5	SM1	1335 4280	13354310	13354248
CMPZ80S /BY	4500	15.3	100 (75)	4	SM1	1335 4299	13354329	13354337
CMPZ80M /BY	2000	9.3	75	1.5	SM1	1335 4272	13354302	13354221
CMPZ80M /BY	2000	9.3	100	2.5	SM1	1335 4280	13354310	13354248
CMPZ80M /BY	3000	13.4	87 (75)	2.5	SM1	1335 4280	13354310	13354248
CMPZ80M /BY	3000	13.4	100 (75)	4	SM1	1335 4299	13354329	13354337
CMPZ80M /BY	4500	20.1	93 (75)	4	SM1	1335 4299	13354329	13354337
CMPZ80M /BY	4500	20.1	100	6	SMB	1335 0129	13350153	13350099
CMPZ80L /BY	2000	12.5	93	2.5	SM1	1335 4280	13354310	13354248
CMPZ80L /BY	2000	12.5	100	4	SM1	1335 4299	13354329	13354337
CMPZ80L /BY	3000	18.7	100 (75)	4	SM1	1335 4299	13354329	13354337
CMPZ80L /BY	4500	27.8	100	6	SMB	1335 0129	13350153	13350099
CMPZ100S /BY	2000	13.3	88	2.5	SM1	1335 4280	13354310	13354248
CMPZ100S /BY	2000	13.3	100	4	SM1	1335 4299	13354329	13354337
CMPZ100S /BY	3000	19.6	95 (55)	4	SM1	1335 4299	13354329	13354337
CMPZ100S /BY	3000	19.6	100 (80)	6	SMB	1335 0129	13350153	13350099
CMPZ100S /BY	4500	30	93 (80)	6	SMB	1335 0129	13350153	13350099
CMPZ100S /BY	4500	30	100 (80)	10	SMB	1335 0137	13350161	13350102

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Fixed routing	Cable part no. Cable carrier installation	Cable carrier extension ¹⁾
	rpm	A	m	mm ²		Brakemotor		
CMPZ100M /BY	2000	14.7	79	2.5	SM1	1335 4280	13354310	13354248
CMPZ100M /BY	2000	14.7	100	4	SM1	1335 4299	13354329	13354337
CMPZ100M /BY	3000	21.8	85 (55)	4	SM1	1335 4299	13354329	13354337
CMPZ100M /BY	3000	21.8	100 (80)	6	SMB	1335 0129	13350153	13350099
CMPZ100M /BY	4500	33.1	84 (80)	6	SMB	13350129	13350153	13350099
CMPZ100M /BY	4500	33.1	100 (80)	10	SMB	13350137	13350161	13350102
CMPZ100L /BY	2000	21.8	85	4	SM1	13354299	13354329	13354337
CMPZ100L /BY	2000	21.8	100	6	SMB	13350129	13350153	13350099
CMPZ100L /BY	3000	32.3	87 (80)	6	SMB	13350129	13350153	13350099
CMPZ100L /BY	3000	32.3	100 (80)	10	SMB	13350137	13350161	13350102
CMPZ100L /BY	4500	48.4	96 (80)	10	SMB	13350137	13350161	13350102
CMPZ100L /BY	4500	48.4	100 (80)	16	SMB	13350145	13350188	13350110
CMPZ100L /BY	4500	48.4	100 (80)	16	SBC	18148514	18148522	18156843

1) Currently only cable carrier extension cables are offered

Permitted cable lengths for DC 24 V BY working brakes are especially reduced. Note the following guidelines:

CMPZ71 . /BY: maximum 8 m

CMPZ80 . between 6.4 and 9 m depending on the cable cross section

CMPZ100 . /BY: between 4.5 and 7 m depending on the cable cross section

For project planning with DC 24 V BY working brake, consult SEW-EURODRIVE.

12.10 Cable assignment: CMPZ /BY /VR, 400 V system voltage

The following table allows for selecting power cables for CMP servo brakemotors with a system voltage of 400 V and a BY brake with 400 V, 230 V or 110 V brake voltage.

An additional length for 110 V is specified in parenthesis for cases where the permitted cable length for 110 V is shorter than for 400 V/230 V.

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SB1
- 6 mm² to 16 mm²: SBB
- 16 mm² to 35 mm²: SBC

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Fixed routing	Cable part no.	Cable carrier extension ¹⁾
	rpm	A	m	mm ²		Brakemotor		
CMPZ71S /BY /VR	2000	4.6	100	1.5	SB1	13354272	13354302	13354221
CMPZ71S /BY /VR	3000	6.7	100	1.5	SB1	13354272	13354302	13354221
CMPZ71S /BY /VR	4500	9.9	70	1.5	SB1	13354272	13354302	13354221
CMPZ71S /BY /VR	4500	9.9	100	2.5	SB1	13354280	13354310	13354248
CMPZ71S /BY /VR	6000	13.1	89	2.5	SB1	13354280	13354310	13354248
CMPZ71S /BY /VR	6000	13.1	100	4	SB1	13354299	13354329	13354337
CMPZ71M /BY /VR	2000	7.3	96	1.5	SB1	13354272	13354302	13354221
CMPZ71M /BY /VR	2000	7.3	100	2.5	SB1	13354280	13354310	13354248
CMPZ71M /BY /VR	3000	10.9	64	1.5	SB1	13354272	13354302	13354221
CMPZ71M /BY /VR	3000	10.9	100	2.5	SB1	13354280	13354310	13354248
CMPZ71M /BY /VR	4500	15.9	73	2.5	SB1	13354280	13354310	13354248
CMPZ71M /BY /VR	4500	15.9	100	4	SB1	13354299	13354329	13354337
CMPZ71M /BY /VR	6000	21.5	85	4	SB1	13354299	13354329	13354337
CMPZ71M /BY /VR	6000	21.5	100	6	SBB	13350129	13350153	13350099
CMPZ71L /BY /VR	2000	10.1	69	1.5	SB1	13354272	13354302	13354221
CMPZ71L /BY /VR	2000	10.1	100	2.5	SB1	13354280	13354310	13354248
CMPZ71L /BY /VR	3000	15.1	76	2.5	SB1	13354280	13354310	13354248
CMPZ71L /BY /VR	3000	15.1	100	4	SB1	13354299	13354329	13354337
CMPZ 71L /BY /VR	4500	22.5	100	6	SBB	13350129	13350153	13350099
CMPZ71L /BY /VR	6000	30	93	6	SBB	13350129	13350153	13350099
CMPZ71L /BY /VR	6000	30	100	10	SB1	1335 0137	1335 0161	1335 0102
CMPZ80S /BY /VR	2000	9.5	73	1.5	SB1	13354272	13354302	13354221
CMPZ80S /BY /VR	2000	9.5	100	2.5	SB1	13354280	13354310	13354248
CMPZ80S /BY /VR	3000	13.8	84	2.5	SB1	13354280	13354310	13354248
CMPZ80S /BY /VR	3000	13.8	100	4	SB1	13354299	13354329	13354337
CMPZ80S /BY /VR	4500	21	89	4	SB1	13354299	13354329	13354337
CMPZ80S /BY /VR	4500	21	100	6	SBB	13350129	13350153	13350099
CMPZ80S /BY /VR	6000	27.5	100	6	SBB	13350129	13350153	13350099
CMPZ80M /BY /VR	2000	13.4	87	2.5	SB1	13354280	13354310	13354248
CMPZ80M /BY /VR	2000	13.4	100	4	SB1	13354299	13354329	13354337
CMPZ80M /BY /VR	3000	19.3	97	4	SB1	13354299	13354329	13354337
CMPZ80M /BY /VR	3000	19.3	100	6	SB1	13350129	13350153	13350099
CMPZ80M /BY /VR	4500	29	96	6	SBB	13350129	13350153	13350099
CMPZ80M /BY /VR	4500	29	100	10	SBB	13350137	13350161	13350102
CMPZ80M /BY /VR	6000	38	100	10	SBB	13350137	13350161	13350102
CMPZ80L /BY /VR	2000	20	93	4	SB1	13354299	13354329	13354337
CMPZ80L /BY /VR	2000	20	100	6	SBB	13350129	13350153	13350099
CMPZ80L /BY /VR	3000	30	93	6	SBB	13350129	13350153	13350099
CMPZ80L /BY /VR	3000	30	100	10	SBB	13350137	13350161	13350102
CMPZ80L /BY /VR	4500	44.5	100	10	SBB	13350137	13350161	13350102

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
						Brakemotor		
CMPZ80L /BY /VR	6000	60	100	16	SBB	13350145	13350188	13350110
CMPZ100S /BY /VR	2000	18.8	100	4	SBB	13354299	13354329	13354337
CMPZ100S /BY /VR	3000	27.5	100	6	SBB	13350129	13350153	13350099
CMPZ100S /BY /VR	4500	42.5	100	10	SBB	13350137	13350161	13350102
CMPZ100M /BY /VR	2000	22.3	100	6	SBB	13350129	13350153	13350099
CMPZ100M /BY /VR	3000	33	84	6	SBB	13350129	13350153	13350099
CMPZ100M /BY /VR	3000	33	100	10	SBB	13350137	13350161	13350102
CMPZ100M /BY /VR	4500	50	100	16	SBC	18148514	18148522	18156843
CMPZ100L /BY /VR	2000	32.5	86	6	SBB	1335 0129	13350153	13350099
CMPZ100L /BY /VR	2000	32.5	100	10	SBB	1335 0137	13350161	13350102
CMPZ100L /BY /VR	3000	48	97	10	SBB	1335 0137	13350161	13350102
CMPZ100L /BY /VR	3000	48	100	16	SBB	1335 0145	13350188	13350110
CMPZ100L /BY /VR	3000	48	100	16	SBC	18148514	18148522	18156843

1) Currently only cable carrier extension cables are offered

Permitted cable lengths for DC 24 V BY working brakes are especially reduced. Note the following guidelines:

CMPZ71 . /BY: maximum 8 m

CMPZ80 . /BY: between 6.4 and 9 m depending on the cable cross section

CMPZ100 . /BY: between 4.5 and 7 m depending on the cable cross section

For project planning with DC 24 V BY working brake, consult SEW-EURODRIVE.

12.11 Cable assignment: CMP and CMPZ, 230 V system voltage

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SM1
- 6 mm² to 16 mm²: SMB

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	Fixed routing					Cable carrier installation	Cable carrier extension ¹⁾	
		rpm	A	m				mm ²
CMP40S	3000	1.2	100	1.5	SM1	05904544	05906245	13332457
CMP40S	4500	1.2	100	1.5	SM1	05904544	05906245	13332457
CMP40S	6000	1.36	100	1.5	SM1	05904544	05906245	13332457
CMP40M	3000	1.09	100	1.5	SM1	05904544	05906245	13332457
CMP40M	4500	1.5	100	1.5	SM1	05904544	05906245	13332457
CMP40M	6000	1.91	100	1.5	SM1	05904544	05906245	13332457
CMP50S	3000	1.65	100	1.5	SM1	05904544	05906245	13332457
CMP50S	4500	2.3	100	1.5	SM1	05904544	05906245	13332457
CMP50S	6000	3.07	100	1.5	SM1	05904544	05906245	13332457
CMP50M	3000	2.85	100	1.5	SM1	05904544	05906245	13332457
CMP50M	4500	4	100	1.5	SM1	05904544	05906245	13332457
CMP50M	6000	5.25	100	1.5	SM1	05904544	05906245	13332457
CMP50L	3000	3.84	100	1.5	SM1	05904544	05906245	13332457
CMP50L	4500	5.53	100	1.5	SM1	05904544	05906245	13332457
CMP50L	6000	7.6	100	1.5	SM1	05904544	05906245	13332457
CMP63S	3000	3.61	100	1.5	SM1	05904544	05906245	13332457
CMP63S	4500	5.25	100	1.5	SM1	05904544	05906245	13332457
CMP63S	6000	6.78	100	1.5	SM1	05904544	05906245	13332457
CMP63M	3000	6.35	100	1.5	SM1	05904544	05906245	13332457
CMP63M	4500	9.78	70	1.5	SM1	05904544	05906245	13332457
CMP63M	4500	9.78	100	2.5	SM1	05904552	05906253	13332465
CMP63M	6000	12.06	55	1.5	SM1	05904544	05906245	13332457
CMP63M	6000	12.06	100	4	SM1	05904560	05904803	13332473
CMP63L	3000	8.76	75	1.5	SM1	05904544	05906245	13332457
CMP63L	3000	8.76	100	2.5	SM1	05904552	05906253	13332465
CMP63L	4500	12.01	55	1.5	SM1	05904544	05906245	13332457
CMP63L	4500	12.01	100	4	SM1	05904560	05904803	13332473
CMP.71S	3000	8.7	75	1.5	SM1	05904544	05906245	13332457
CMP.71S	3000	8.7	100	2.5	SM1	05904552	05906253	13332465
CMP.71S	4500	12.8	90	2.5	SM1	05904552	05906253	13332465
CMP.71S	4500	12.8	100	4	SM1	05904560	05904803	13332473
CMP.71S	6000	17	100	4	SM1	05904560	05904803	13332473
CMP.71M	3000	13.1	85	2.5	SM1	05904552	05906253	13332465
CMP.71M	3000	13.1	100	4	SM1	05904560	05904803	13332473
CMP.71M	4500	19.2	95	4	SM1	05904560	05904803	13332473
CMP.71L	3000	16.8	100	4	SM1	05904560	05904803	13332473
CMP.80S	3000	17.7	100	4	SM1	05904560	05904803	13332473
CMP.80S	4500	27	100	6	SMB	13350269	13350293	13350021
CMP.80S	6000	35.5	75	6	SMB	13350269	13350293	13350021
CMP.80S	6000	35.5	100	10	SMB	13350277	13350307	13350048
CMP.80M	3000	23.5	100	6	SMB	13350269	13350293	13350021
CMP.80M	4500	35	80	6	SMB	13350269	13350293	13350021
CMP.80M	4500	35	100	10	SMB	13350277	13350307	13350048
CMP.80M	6000	46.9	95	10	SMB	13350277	13350307	13350048
CMP.80M	6000	46.9	100	16	SMB	13350285	13350315	13350056
CMP.80L	3000	32.5	85	6	SMB	13350269	13350293	13350021

Motor	Rated speed	Standstill current I_0	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
						Stand-alone motor		
CMP.80L	3000	32.5	100	10	SMB	13350277	13350307	13350048
CMP.100S	3000	34.2	80	6	SMB	13350269	13350293	13350021
CMP.100S	3000	34.2	100	10	SMB	13350277	13350307	13350048
CMP.100M	3000	40	100	10	SMB	13350277	13350307	13350048

1) Currently only cable carrier extension cables are offered

12.12 Cable assignment: CMP /VR and CMPZ /VR, 230 V system voltage

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SM1
- 6 mm² to 16 mm²: SMB

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm					A	m	mm ²
		Stand-alone motor						
CMP.71S /VR	3000	11.8	55	1.5	SM1	05904544	05906245	13332457
CMP.71S /VR	3000	11.8	100	4	SM1	05904560	05904803	13332473
CMP.71S /VR	4500	17.4	100	4	SM1	05904560	05904803	13332473
CMP.71S /VR	6000	23	80	4	SM1	05904560	05904803	13332473
CMP.71M /VR	3000	19.1	95	4	SM1	05904560	05904803	13332473
CMP.80S /VR	3000	24.5	100	6	SMB	13350269	13350293	13350021
CMP.80S /VR	4500	37	75	6	SMB	13350269	13350293	13350021
CMP.80S /VR	4500	37	100	10	SMB	13350277	13350307	13350048
CMP80S /VR	6000	48.5	95	10	SMB	13350277	13350307	13350048
CMP80S /VR	6000	48.5	100	16	SMB	13350285	13350315	13350056
CMP.80M /VR	3000	34	80	6	SMB	13350269	13350293	13350021
CMP.80M /VR	3000	34	100	10	SMB	13350277	13350307	13350048

1) Currently only cable carrier extension cables are offered

12.13 Cable assignment: CMP /BP /BK, 230 V system voltage

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SB1
- 6 mm² to 16 mm²: SBB

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
						Brakemotor		
CMP40S /BK	3000	1.2	100	1.5	SB1	13354345	13354388	13354221
CMP40S /BK	4500	1.2	100	1.5	SB1	13354345	13354388	13354221
CMP40S /BK	6000	1.36	100	1.5	SB1	13354345	13354388	13354221
CMP40M /BK	3000	1.09	100	1.5	SB1	13354345	13354388	13354221
CMP40M /BK	4500	1.5	100	1.5	SB1	13354345	13354388	13354221
CMP40M /BK	6000	1.91	100	1.5	SB1	13354345	13354388	13354221
CMP50S /BK	3000	1.65	100	1.5	SB1	13354345	13354388	13354221
CMP50S /BK	4500	2.3	100	1.5	SB1	13354345	13354388	13354221
CMP50S /BK	6000	3.07	100	1.5	SB1	13354345	13354388	13354221
CMP50M /BK	3000	2.85	100	1.5	SB1	13354345	13354388	13354221
CMP50M /BK	4500	4	100	1.5	SB1	13354345	13354388	13354221
CMP50M /BK	6000	5.25	100	1.5	SB1	13354345	13354388	13354221
CMP50L /BK	3000	3.84	100	1.5	SB1	13354345	13354388	13354221
CMP50L /BK	4500	5.53	100	1.5	SB1	13354345	13354388	13354221
CMP50L /BK	6000	7.6	100	1.5	SB1	13354345	13354388	13354221
CMP63S /BK	3000	3.61	100	1.5	SB1	13354345	13354388	13354221
CMP63S /BK	4500	5.25	100	1.5	SB1	13354345	13354388	13354221
CMP63S /BK	6000	6.78	100	1.5	SB1	13354345	13354388	13354221
CMP63M /BK	3000	6.35	100	1.5	SB1	13354345	13354388	13354221
CMP63M /BK	4500	9.78	70	1.5	SB1	13354345	13354388	13354221
CMP63M /BK	4500	9.78	100	2.5	SB1	13354353	13354396	13354248
CMP63M /BK	6000	12.06	55	1.5	SB1	13354345	13354388	13354221
CMP63M /BK	6000	12.06	100	4	SB1	13354361	13421603	13354337
CMP63L /BK	3000	8.76	75	1.5	SB1	13354345	13354388	13354221
CMP63L /BK	3000	8.76	100	2.5	SB1	13354353	13354396	13354248
CMP63L /BK	4500	12.01	55	1.5	SB1	13354345	13354388	13354221
CMP63L /BK	4500	12.01	100	4	SB1	13354361	13421603	13354337
CMP71S /BP	3000	8.7	75	1.5	SB1	13354345	13354388	13354221
CMP71S /BP	3000	8.7	80	2.5	SB1	13354353	13354396	13354248
CMP71S /BP	4500	12.8	80	2.5	SB1	13354353	13354396	13354248
CMP71S /BP	4500	12.8	80	4	SB1	13354361	13421603	13354337
CMP71S /BP	6000	17	80	4	SB1	13354361	13421603	13354337
CMP71M /BP	3000	13.1	80	2.5	SB1	13354353	13354396	13354248
CMP71M /BP	3000	13.1	80	4	SB1	13354361	13421603	13354337
CMP71M /BP	4500	19.2	80	4	SB1	13354361	13421603	13354337
CMP71L /BP	3000	16.8	80	4	SB1	13354361	13421603	13354337
CMP80S /BP	3000	17.7	55	4	SB1	13354361	13421603	13354337
CMP80S /BP	4500	27	85	6	SBB	13350196	13350234	13350099
CMP80M /BP	3000	23.5	85	6	SBB	13350196	13350234	13350099
CMP80M /BP	4500	35	80	6	SBB	13350196	13350234	13350099
CMP80M /BP	4500	35	85	10	SBB	13350218	13350242	13350102
CMP80L /BP	3000	32.5	85	6	SBB	13350196	13350234	13350099
CMP80L /BP	3000	32.5	85	10	SBB	13350218	13350242	13350102
CMP100S /BP	3000	34.2	70	6	SBB	13350196	13350234	13350099
CMP100S /BP	3000	34.2	70	10	SBB	13350218	13350242	13350102

Prefabricated cables

Cable assignment: CMP /BP /BK, 230 V system voltage

Motor	Rated speed	Standstill current I_0	To cable length	Core cross section	Plug connector	Fixed routing	Cable part no. Cable carrier installation	Cable carrier extension ¹⁾
	rpm	A	m	mm ²		Brakemotor		
CMP100M /BP	3000	40	70	10	SBB	13350218	13350242	13350102

1) Currently only cable carrier extension cables are offered

12.14 Cable assignment: CMP /BP /VR, 230 V system voltage

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SB1
- 6 mm² to 16 mm²: SBB

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
						Brakemotor		
CMP71S /BP /VR	3000	11.8	55	1.5	SB1	13354345	13354388	13354221
CMP71S /BP /VR	3000	11.8	80	4	SB1	13354361	13421603	13354337
CMP71S /BP /VR	4500	17.4	80	4	SB1	13354361	13421603	13354337
CMP71S /BP /VR	6000	23	80	4	SB1	13354361	13421603	13354337
CMP71M /BP /VR	3000	19.1	80	4	SB1	13354361	13421603	13354337
CMP80S /BP /VR	3000	24.5	85	6	SBB	13350196	13350234	13350099
CMP80S /BP /VR	4500	37	75	6	SBB	13350196	13350234	13350099
CMP80S /BP /VR	4500	37	85	10	SBB	13350218	13350242	13350102
CMP80M /BP /VR	3000	34	80	6	SBB	13350196	13350234	13350099
CMP80M /BP /VR	3000	34	85	10	SBB	13350218	13350242	13350102

1) Currently only cable carrier extension cables are offered

12.15 Cable assignment: CMPZ /BY, 230 V system voltage

The following table allows for selecting power cables for CMP servo brakemotors with a system voltage of 400 V and a BY brake with 400 V, 230 V or 110 V brake voltage.

An additional length for 110 V is specified in parenthesis for cases where the permitted cable length for 110 V is shorter than for 400 V/230 V.

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SB1
- 6 mm² to 16 mm²: SBB

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
						Brakemotor		
CMPZ71S /BY	3000	8.7	80	1.5	SB1	13354272	13354302	13354221
CMPZ71S /BY	3000	8.7	100	2.5	SB1	13354280	13354310	13354248
CMPZ71S /BY	4500	12.8	90	2.5	SB1	13354280	13354310	13354248
CMPZ71S /BY	4500	12.8	100	4	SB1	13354299	13354329	13354337
CMPZ71S /BY	6000	17	100	4	SB1	13354299	13354329	13354337
CMPZ71M /BY	3000	13.1	100	4	SB1	13354299	13354329	13354337
CMPZ71M /BY	4500	19.2	98	4	SB1	13354299	13354329	13354337
CMPZ71L /BY	3000	16.8	100	4	SB1	13354299	13354329	13354337
CMPZ80S /BY	3000	17.7	65	2.5	SB1	13354280	13354310	13354248
CMPZ80S /BY	3000	17.7	100	4	SB1	13354299	13354329	13354337
CMPZ80S /BY	4500	27	100	6	SBB	13350129	13350153	13350099
CMPZ80S /BY	6000	35.5	78	6	SBB	13350129	13350153	13350099
CMPZ80S /BY	6000	35.5	100	10	SBB	13350137	13350161	13350102
CMPZ80M /BY	3000	23.5	100	6	SBB	13350129	13350153	13350099
CMPZ80M /BY	4500	35	80	6	SBB	13350129	13350153	13350099
CMPZ80M /BY	4500	35	100	10	SBB	13350137	13350161	13350102
CMPZ80M /BY	6000	46.9	100	10	SBB	13350137	13350161	13350102
CMPZ80L /BY	3000	32.5	86	6	SBB	13350129	13350153	13350099
CMPZ80L /BY	3000	32.5	100	10	SBB	13350137	13350161	13350102
CMPZ100S /BY	3000	34.2	82	6	SBB	13350129	13350153	13350099
CMPZ100S /BY	3000	34.2	100	10	SBB	13350137	13350161	13350102
CMPZ100M /BY	3000	40	100	10	SBB	13350137	13350161	13350102

1) Currently only cable carrier extension cables are offered

Permitted cable lengths for DC 24 V BY working brakes are especially reduced. Note the following guidelines:

CMPZ71 . /BY: maximum 8 m

CMPZ80 . /BY: between 6.4 and 9 m depending on the cable cross section

CMPZ100 . /BY: between 4.5 and 7 m depending on the cable cross section

For project planning with DC 24 V BY working brake, consult SEW-EURODRIVE.

12.16 Cable assignment: CMPZ /BY /VR, 230 V system voltage

The following table allows for selecting power cables for CMP servo brakemotors with a system voltage of 400 V and a BY brake with 400 V, 230 V or 110 V brake voltage.

An additional length for 110 V is specified in parenthesis for cases where the permitted cable length for 110 V is shorter than for 400 V/230 V.

The part numbers refer to the smallest connector that can be used:

- 1.5 mm² to 4 mm²: SB1
- 6 mm² to 16 mm²: SBB

Motor	Rated speed	Standstill current I ₀	To cable length	Core cross section	Plug connector	Cable part no.		
	rpm	A	m	mm ²		Fixed routing	Cable carrier installation	Cable carrier extension ¹⁾
						Brakemotor		
CMPZ71S /BY /VR	3000	11.8	59	1.5	SB1	13354272	13354302	13354221
CMPZ71S /BY /VR	3000	11.8	100	2.5	SB1	13354280	13354310	13354248
CMPZ71S /BY /VR	4500	17.4	100	4	SB1	13354299	13354329	13354337
CMPZ71S /BY /VR	6000	23	80	4	SB1	13354299	13354329	13354337
CMPZ71M /BY /VR	3000	19.1	98	4	SB1	13354299	13354329	13354337
CMPZ71M /BY /VR	4500	28	100	6	SBB	13350129	13350153	13350099
CMPZ71L /BY /VR	3000	27	100	6	SBB	13350129	13350153	13350099
CMPZ80S /BY /VR	3000	24.5	100	6	SBB	13350129	13350153	13350099
CMPZ80S /BY /VR	4500	37	76	6	SBB	13350129	13350153	13350099
CMPZ80S /BY /VR	4500	37	100	10	SBB	13350137	13350161	13350102
CMPZ80S /BY /VR	6000	48.5	97	10	SBB	13350137	13350161	13350102
CMPZ80S /BY /VR	6000	48.5	100	16	SBB	13350145	13350188	13350110
CMPZ80M /BY /VR	3000	34	83	6	SBB	13350129	13350153	13350099
CMPZ80M /BY /VR	3000	34	100	10	SBB	13350137	13350161	13350102

1) Currently only cable carrier extension cables are offered

Permitted cable lengths for DC 24 V BY working brakes are especially reduced. Note the following guidelines:

CMPZ71 . /BY: maximum 8 m

CMPZ80 . /BY: between 6.4 and 9 m depending on the cable cross section

CMPZ100 . /BY: between 4.5 and 7 m depending on the cable cross section

For project planning with DC 24 V BY working brake, consult SEW-EURODRIVE.

12.17 Encoder cable assignment: Plug connector connection option /KKS

Encoder	Connection to		Cable part number			
	MOVIDRIVE®	MOVIAXIS®	Fixed installation	Cable carrier installation	Fixed extension	Cable carrier extension
RH1M	X15		01994875	01993194	01995421	01995413
		X13	13327429	13327437		
AS1H, ES1H AK1H, EK1H AK0H, EK0H	X15	X13	13324535	13324551	01995391	01995405

12.18 Encoder cable assignment: Connection option KK

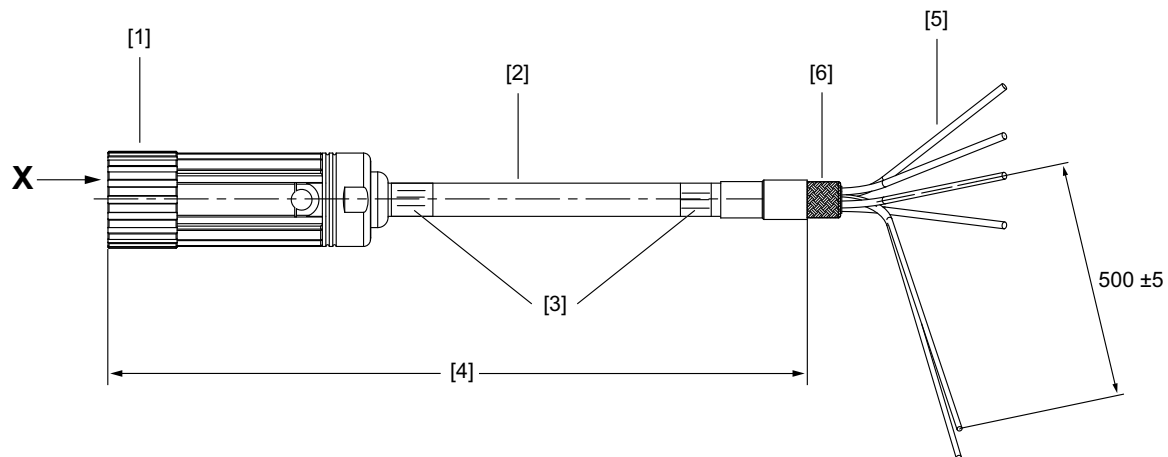
Encoder	Connection to		Cable part number	
	MOVIDRIVE®	MOVIAXIS®	Fixed installation	Cable carrier installation
RH1M	X15		13356259	13356267
		X13	13356356	13356364
AK1H, EK1H AK0H	X15	X13	13356291	13356305

12.19 Forced cooling fan cables

Cable type		Cable cross section	Part number
Fixed installation	Forced cooling fan cable	3 x 1 mm ²	01986341
Cable carrier installation		3 x 1 mm ²	0199560X

12.20 Structure of prefabricated cables for CMP. servomotors

12.20.1 Motor cables/brakemotor cables for CMP. servomotors



4818640779

- [1] Connector: Intercontec BSTA 078
- [2] SEW-EURODRIVE logo printed on cable
- [3] Nameplate
- [4] Line length ≤ 10 m: Tolerance +200 mm
Line length ≥ 10 m: Tolerance +2 %
Permitted line length according to the technical documents
- [5] Prefabricated cable end for inverter
Required loose parts are supplied with the cable
- [6] Shielding approx. 20 mm, pulled back approximately + 5 mm

Prefabrication motor side

The power cables on the motor side consist of an 8-pin plug connector and socket contacts.

The shield is connected in the connector housing according to EMC requirements. All plug connectors seal the connector on the cable end with a lamellar seal and ensure cable relief according to EN 61884.

Prefabrication on inverter end

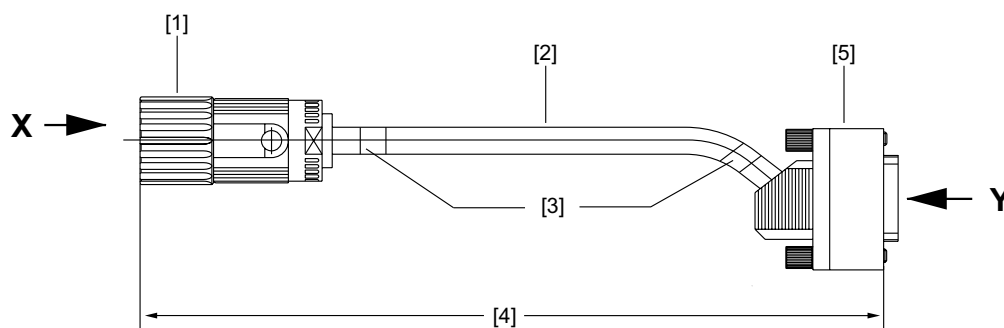
The individual cable cores of the motor and brakemotor cables are exposed and the shield is prepared for connection in the control cabinet. The cable for the inverter end still has to be prefabricated. The loose parts required are supplied with the cable in a separate bag.

Loose parts

The following loose parts are supplied in accordance with the core cross sections for connection to the power terminals on the inverter:

Bag no.	Contents
1	4 x conductor end sleeves 1.5 mm ² , insulated 4 x M6 U-shaped cable lugs 1.5 mm ²
2	4 x conductor end sleeves 2.5 mm ² , insulated 4 x M6 U-shaped cable lugs 2.5 mm ²
3	4 x conductor end sleeves 4 mm ² , insulated 4 x M6 U-shaped cable lugs 4 mm ²

12.20.2 Feedback cable



4818646539

- [1] Connector: Intercontec ASTA
- [2] Printed on connector: SEW-EURODRIVE
- [3] Nameplate
- [4] Line length ≤ 10 m: Tolerance +200 mm
Cable length > 10 m: Tolerance +2%
Permitted line length according to the technical documents.
- [5] D-sub connector

Prefabrication motor end

A 12-pin EMC signal plug connector from Intercontec with socket contacts is used on the motor end for RH1M, AS1H, ES1H, AK0H, EK0H, AK1H, EK1H. The shield is connected in the connector housing according to EMC requirements. All plug connectors seal the plug on the cable end with a lamellar seal.

Prefabrication on inverter end

A commercial D-sub EMC connector with pin contacts is used on the inverter end. A 9-pin or 15-pin connector matching the inverter is used.

Hybrid cable

The outer cable sheath on the motor and inverter end bears a nameplate with part number and logo of the prefabricated cable manufacturer. The ordered length and permitted tolerance are interrelated as follows:

- Cable length ≤ 10 m: Tolerance 200 mm.
- Cable length >10 m: Tolerance + 2%.

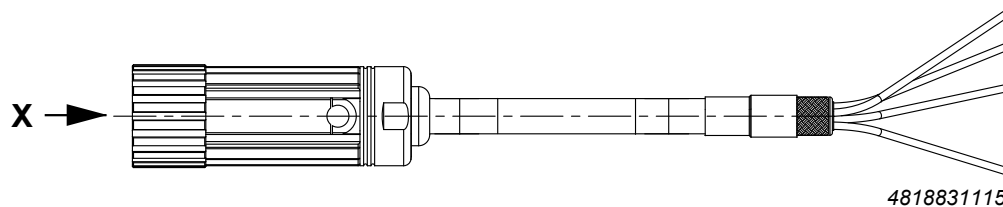
INFORMATION

Refer to the system manual of the inverter for determining the maximum cable length. Make sure that an EMC-compliant environment is maintained during project planning.

12.21 Power cables

12.21.1 Motor cables

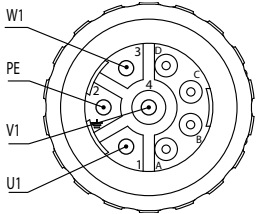
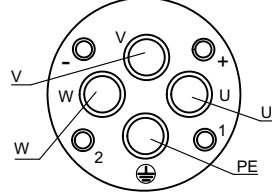
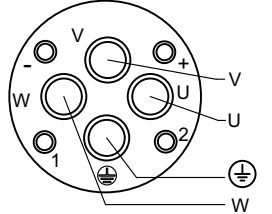
CMP motor cables



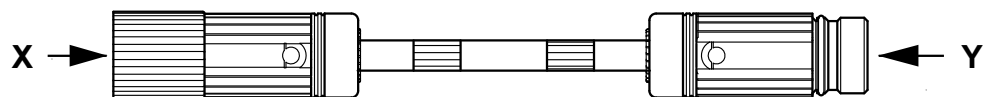
CMP motor cable types

Type	Number of cores and cable cross section	Part number	Routing
SM11	4 × 1.5 mm ²	05904544	Fixed installation
SM11	4 × 1.5 mm ²	05906245	Cable carrier installation
SM12	4 × 2.5 mm ²	05904552	Fixed installation
SM12	4 × 2.5 mm ²	05906253	Cable carrier installation
SM14	4 × 4 mm ²	05904560	Fixed installation
SM14	4 × 4 mm ²	05904803	Cable carrier installation
SMB6	4 × 6 mm ²	13350269	Fixed installation
SMB6	4 × 6 mm ²	13350293	Cable carrier installation
SMB10	4 × 10 mm ²	13350277	Fixed installation
SMB10	4 × 10 mm ²	13350307	Cable carrier installation
SMB16	4 × 16 mm ²	13350285	Fixed installation
SMB16	4 × 16 mm ²	13350315	Cable carrier installation
SMC16	4 × 16 mm ²	18148476	Fixed installation
SMC16	4 × 16 mm ²	18148484	Cable carrier installation
SMC25	4 × 25 mm ²	18148581	Cable carrier installation
SMC35	4 × 35 mm ²	18148697	Cable carrier installation

Pin assignment of the CMP motor cable

Plug connector view X	Pin	Cable core color	Assigned	Extra
BSTA 078 SM1 	1	(BK) Black	U	Bag of loose parts
	2	(GN/YE) Green/ Yellow	PE	
	3	(BK) Black	W	
	4	(BK) Black	V	
Plug connector view X	Pin	Cable core color	Assigned	Extra
CSTA 264 SMB 	U	(BK, WH) Black	U	Bag of loose parts
	V	with white lettering U, V, W	V	
	W		W	
	PE	(GN/YE) Green, yellow	PE	
Plug connector view X	Pin	Cable core color	Assigned	Extra
DSTA 001 SMC  8837045259	U	(BK, WH) Black	U	Bag of loose parts
	V	with white lettering U, V, W	V	
	W		W	
	PE	(GN/YE) Green, yellow	PE	

CMP motor extension cable



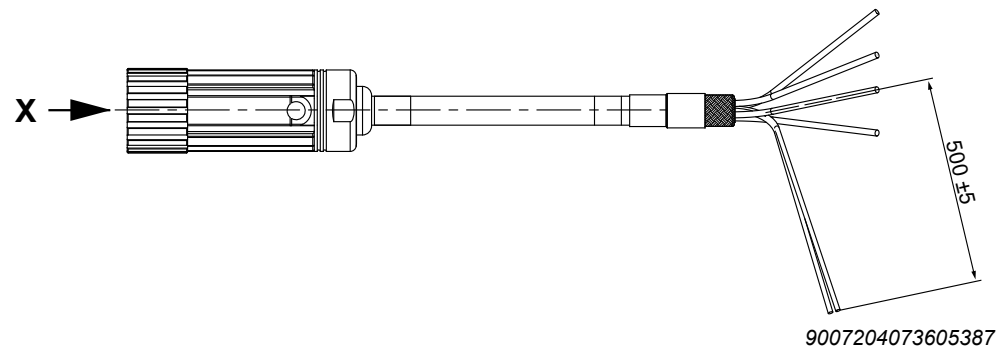
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CMP motor extension cable types

Type	Number of cores and cable cross section	Part number	Routing
SM11	4 × 1.5 mm ²	13332457	Cable carrier installation
SM12	4 × 2.5 mm ²	13332465	Cable carrier installation
SM14	4 × 4 mm ²	13332473	Cable carrier installation
SMB6	4 × 6 mm ²	13350021	Cable carrier installation
SMB10	4 × 10 mm ²	13350048	Cable carrier installation
SMB16	4 × 16 mm ²	13350056	Cable carrier installation
SMC16	4 × 16 mm ²	18156819	Cable carrier installation
SMC25	4 × 25 mm ²	18156827	Cable carrier installation
SMC35	4 × 35 mm ²	18156835	Cable carrier installation

12.21.2 Brakemotor cable for BP/BK brakes

CMP brakemotor cable



Types of CMP brakemotor cables

12

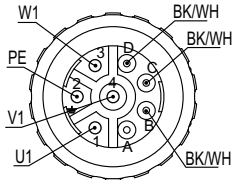
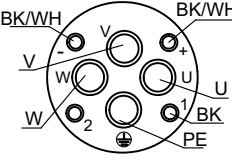
Type	Number of cores and cable cross section	Part number	Routing
SB11	$4 \times 1.5 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354345	Fixed installation
SB11	$4 \times 1.5 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354388	Cable carrier installation
SB12	$4 \times 2.5 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354353	Fixed installation
SB12	$4 \times 2.5 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354396	Cable carrier installation
SB14	$4 \times 4 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354361	Fixed installation
SB14	$4 \times 4 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13421603	Cable carrier installation
SBB6	$4 \times 6 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350196	Fixed installation
SBB6	$4 \times 6 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350234	Cable carrier installation
SBB10	$4 \times 10 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350218	Fixed installation
SBB10	$4 \times 10 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350242	Cable carrier installation
SBB16	$4 \times 16 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350226	Fixed installation
SBB16	$4 \times 16 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350250	Cable carrier installation

INFORMATION



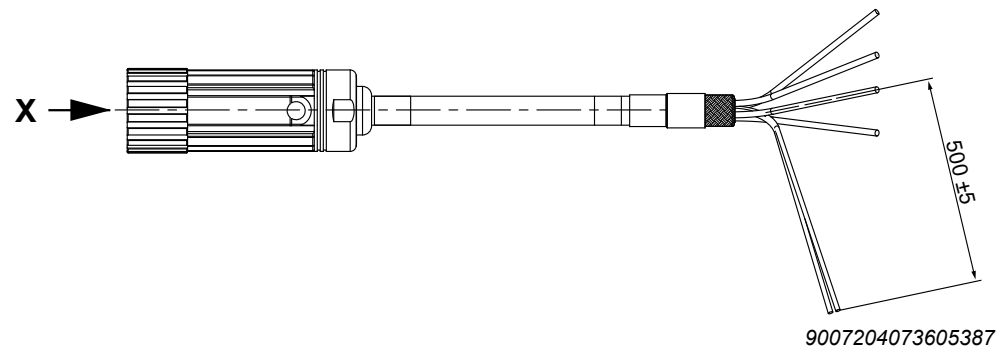
As only two signal lines are required for power cables for brakemotors with BP/BK brake, the third signal wire is cut off when prefabricating the cable.

Pin assignment of CMP brakemotor cables

Plug connector view X	Pin	Cable core color	Assigned	Extra
BSTA 078 SB1 	1	(BK/WH) Black with white lettering U, V, W	U	Bag of loose parts
	4		V	
	3		W	
	2	(GN/YE) Green/yellow	PE	
	A	–	n. c.	
	B	–	n. c.	
	C	(BK/WH) Black with white lettering 1, 2, 3	+	
	D		–	
Plug connector view X	Pin	Cable core color	Assigned	Extra
CSTA 264 SBB 	U	(BK/WH) Black with white lettering U, V, W	U	Bag of loose parts
	V		V	
	W		W	
	PE	(GN/YE) Green/yellow	PE	
	–	(BK/WH) Black with white lettering 1, 2, 3	–	
	+		+	
	1	–	n. c.	
	2	–	n. c.	

12.21.3 Brakemotor cables BY brake

CMP brakemotor cable

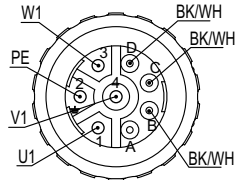
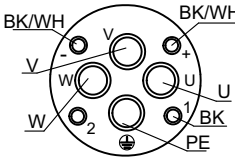
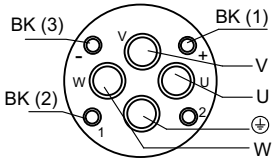


CMP brakemotor cable types

12

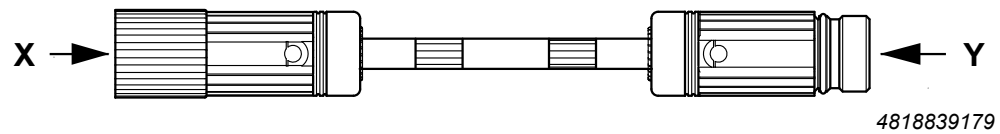
Type	Number of cores and cable cross section	Part number	Routing
SB11	$4 \times 1.5 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354272	Fixed installation
SB11	$4 \times 1.5 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354302	Cable carrier installation
SB12	$4 \times 2.5 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354280	Fixed installation
SB12	$4 \times 2.5 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354310	Cable carrier installation
SB14	$4 \times 4 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354299	Fixed installation
SB14	$4 \times 4 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354329	Cable carrier installation
SBB6	$4 \times 6 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350129	Fixed installation
SBB6	$4 \times 6 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350153	Cable carrier installation
SBB10	$4 \times 10 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350137	Fixed installation
SBB10	$4 \times 10 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350161	Cable carrier installation
SBB16	$4 \times 16 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350145	Fixed installation
SBB16	$4 \times 16 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350188	Cable carrier installation
SBC16	$4 \times 16 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	18148514	Fixed installation
SBC16	$4 \times 16 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	18148522	Cable carrier installation

Pin assignment of CMP brakemotor cables

Plug connector view X	Pin	Cable core color	Assigned	Extra
BSTA 078 SB1 	1	(BK/WH) Black with white lettering U, V, W	U	Bag of loose parts
	4		V	
	3		W	
	2	(GN/YE) Green/Yellow	PE	
	A	–	n. c.	
	B	(BK/WH) Black with white lettering	2	
	C		1	
	D		3	
Plug connector view X	Pin	Cable core color	Assigned	Extra
CSTA 264 SBB 	U	(BK/WH) Black with white lettering U, V, W	U	Bag of loose parts
	V		V	
	W		W	
	PE	(GN/YE) Green/yellow	PE	
	–	(BK/WH) Black with white lettering	15	
	+		13	
	1		14	
	2	–	n.c.	
Plug connector view X	Pin	Cable core color	Assigned	Extra
DSTA 001 SBC 	U	(BK/WH) Black with white lettering U, V, W	U	Bag of loose parts
	V		V	
	W		W	
	PE	(GN/YE) Green/yellow	PE	
	–	(BK/WH) Black with white lettering	15	
	+		13	
	1		14	
	2	–	n.c.	

12.21.4 Extension cables BP/BK and BY brakes

CMP brakemotor extension cable



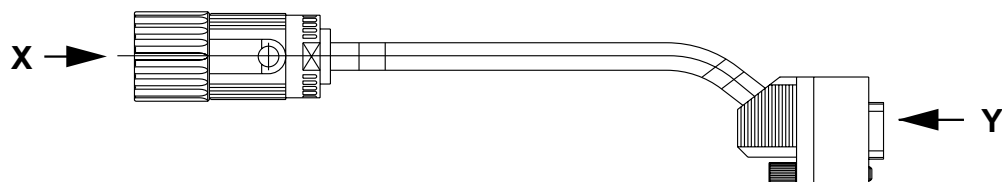
CMP brakemotor extension cable types

Type	Number of cores and cable cross section	Part number	Routing
SB11	$4 \times 1.5 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354221	Cable carrier installation
SB12	$4 \times 2.5 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354248	Cable carrier installation
SB14	$4 \times 4 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$	13354337	Cable carrier installation
SBB6	$4 \times 6 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350099	Cable carrier installation
SBB10	$4 \times 10 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350102	Cable carrier installation
SBB16	$4 \times 16 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	13350110	Cable carrier installation
SBC16	$4 \times 16 \text{ mm}^2 + 3 \times 1.5 \text{ mm}^2$	18156843	Cable carrier installation

12.22 Encoder cables

12.22.1 Resolver

Resolver cable RH1M for MOVIDRIVE® MDX60B/61B

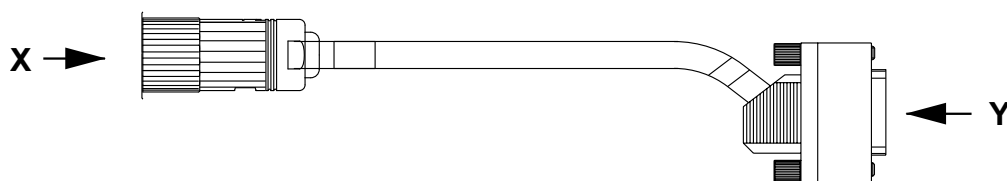


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Resolver cable types RH1M for MOVIDRIVE® MDX60B/61B

Type	Number of cores and cable cross section	Part number	Routing
CMP	$5 \times 2 \times 0.25 \text{ mm}^2$	01994875	Fixed installation
CMP	$5 \times 2 \times 0.25 \text{ mm}^2$	01993194	Cable carrier installation

Resolver cable RH1M for MOVIAXIS® MX

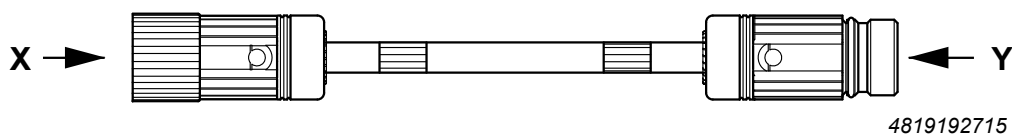


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Resolver cable types RH1M for MOVIAXIS® MX

Type	Number of cores and cable cross section	Part number	Routing
CMP	$5 \times 2 \times 0.25 \text{ mm}^2$	13327429	Fixed installation
CMP	$5 \times 2 \times 0.25 \text{ mm}^2$	13327437	Cable carrier installation

Extension cable for RH1M resolver



Extension cable types for RH1M resolvers

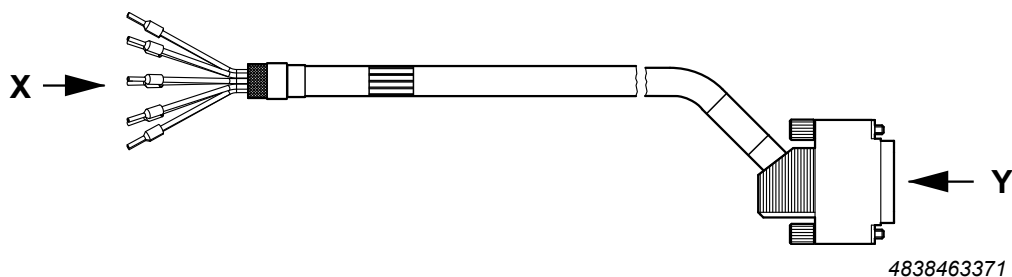
Type	Number of cores and cable cross section	Part number	Routing
CMP	$5 \times 2 \times 0.25 \text{ mm}^2$	01995421	Fixed installation
CMP	$5 \times 2 \times 0.25 \text{ mm}^2$	01995413	Cable carrier installation

Alternative plug connector for RH1M resolver cables

Signal plug connector with socket contacts (complete)

Type	Cross sections that can be connected	Part number
RH1M	$6 \times 2 \times 0.06 \text{ to } 1 \text{ mm}^2$	01986732

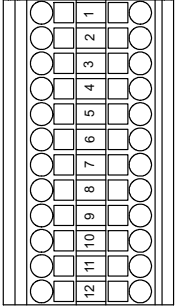
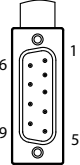
Resolver cable, terminal box CMP for MOVIDRIVE®



Resolver cables types, terminal box CMP for MOVIDRIVE

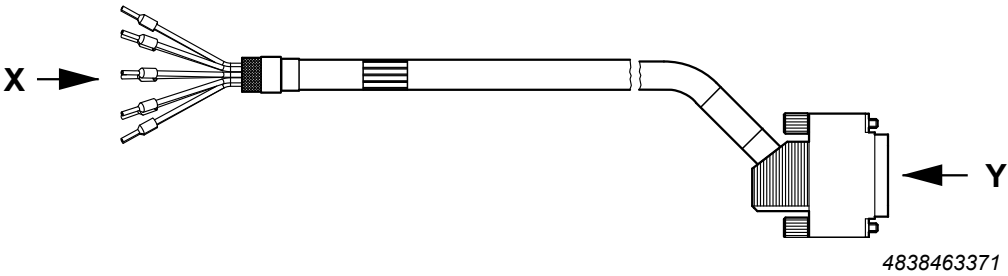
Type	Number of cores and cross sections	Part number	Routing
CMP	$5 \times 2 \times 0.25 \text{ mm}^2$	13356259	Fixed installation
CMP		13356267	Cable carrier installation

Pin assignment of resolver cables – terminal box for RH1M

Resolver cables, terminal box connection RH1M resolver for CMP motors						
Motor connection end					Connection – MOVIDRIVE® MDX..B	
Terminal strip	Pin no.	Description	Cable core color	Description	Pin no.	Plug connector
 12642818315 View X	1	R1 (reference +)	Pink (PK)	R1 (reference +)	3	 View Y
	2	R2 (reference -)	Gray (GY)	R2 (reference -)	8	
	3	S1 (cosine +)	Red (RD)	S1 (cosine +)	2	
	4	S3 (cosine -)	Blue (BU)	S3 (cosine -)	7	
	5	S2 (sine +)	Yellow (YE)	S2 (sine +)	1	
	6	S4 (sine -)	Green (GN)	S4 (sine -)	6	
	7	n.c.	–	n.c.	4	
	8	n.c.	–	–	–	
	9	TF/KTY +	(BN) Brown / (VT) violet ¹⁾	TF/ KTY +	9	
	10	TF/KTY -	(WH) White / (BK) Black ²⁾	TF/ KTY -	5	
	11	n.c.	n.c.	n.c.	–	
	12	n.c.	n.c.	n.c.	–	

1) Double assignment to increase cross section
2) Double assignment to increase cross section

Resolver cable terminal box CMP for MOVIAXIS®

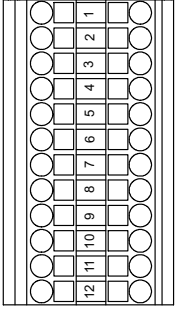
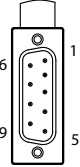


Resolver cable types terminal box CMP for MOVIAXIS®

Type	Number of cores and cross sections	Part number	Routing
CMP	5 × 2 × 0.25 mm ²	13356356	Fixed installation
CMP		13356364	Cable carrier installation

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RH1M resolver cables terminal box – pin assignment

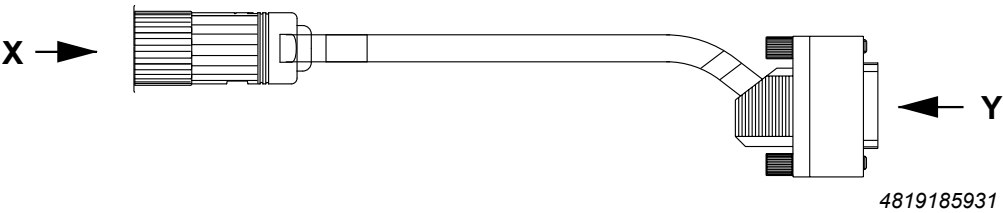
Resolver cables, terminal box connection RH1M resolver for CMP motors						
Motor connection end					Connection – MOVIAXIS® MXA	
Terminal strip	Pin no.	Description	Cable core color	Description	Pin no.	Plug connector
 12642818315 View X	1	R1 (reference +)	Pink (PK)	R1 (reference +)	5	 D-sub, 9-pole View Y
	2	R2 (reference -)	Gray (GY)	R2 (reference -)	13	
	3	S1 (cosine +)	Red (RD)	S1 (cosine +)	2	
	4	S3 (cosine -)	Blue (BU)	S3 (cosine -)	10	
	5	S2 (sine +)	Yellow (YE)	S2 (sine +)	1	
	6	S4 (sine -)	Green (GN)	S4 (sine -)	9	
	7	n.c.	–	n.c.	4	
	8	n.c.	–	–	–	
	9	TF/KTY +	(BN) Brown / (VT) violet ¹⁾	TF/ KTY +	14	
	10	TF/KTY -	(WH) White / (BK) Black ²⁾	TF/ KTY -	6	
	11	n.c.	n.c.	n.c.	–	
	12	n.c.	n.c.	n.c.	–	

1) Double assignment to increase cross section

2) Double assignment to increase cross section

12.22.2 Hiperface® encoders

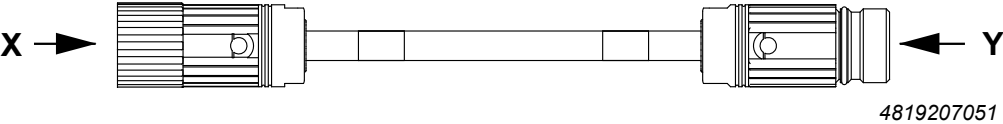
Hiperface® encoder cable for MOVIDRIVE® B and MOVIAXIS® MX



Hiperface® encoder cable types for MOVIDRIVE® B and MOVIAXIS MX

Type	Number of cores and cable cross section	Part number	Routing
CMP	6 × 2 × 0.25 mm ²	13324535	Fixed installation
CMP	6 × 2 × 0.25 mm ²	13324551	Cable carrier installation

Extension cable for Hiperface® encoders AK0H / EK0H / AS1H / ES1H / AK1H / EK1H



Extension cable types for Hiperface® encoders K0H / EK0H / AS1H / ES1H / AK1H / EK1H

Type	Number of cores and cable cross section	Part number	Routing
CMP	6 × 2 × 0.25 mm ²	01995391	Fixed installation
CMP	6 × 2 × 0.25 mm ²	01995405	Cable carrier installation

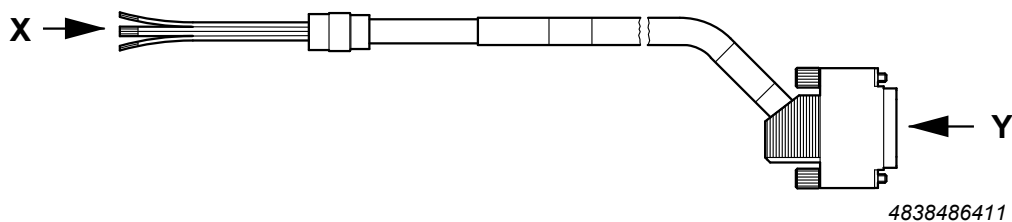
Alternative plug connector cables for Hiperface® encoders AK0H / EK0H / AS1H / ES1H / AK1H / EK1H

Signal plug connector with socket contacts (complete)

Type	Cross sections that can be connected	Part number
AK0H	6 x 2 x 0.06 to 1 mm ²	01986732
EK0H		
AS1H		
ES1H		
AK1H		
EK1H		

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Hiperface® encoder cable, terminal box, CMP for MOVIAXIS®, MOVIDRIVE

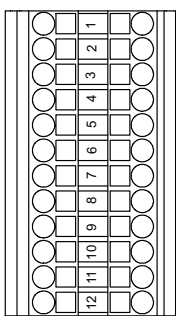
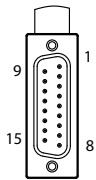


Hiperface® encoder cable types, terminal box, CMP for MOVIAXIS®, MOVIDRIVE®

Type	Number of cores and cable cross section	Part number	Routing
CMP	5 × 2 × 0.25 mm ²	13356291	Fixed installation
CMP		13356305	Cable carrier installation

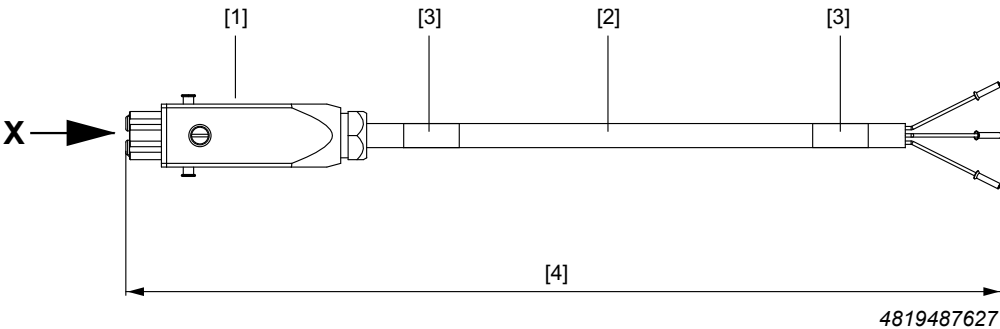
12

Pin assignment for Hiperface® encoder cables, terminal box, AS1H / ES1H / AK1H / AK0H / EK1H

Hiperface® cable, terminal box connection MOVIAXIS® MXA, MOVIDRIVE® MDX..B with CMP motors						
Motor connection end					Connection MOVIAXIS® MXA MOVIDRIVE® MDX..B	
Terminal strip	Pin no.	Description	Cable core color	Description	Pin no.	Plug connector
 12642818315 View X	6	Data +	Black (BK)	Data +	4	 View Y
	5	Data -	Violet (VT)	Data -	12	
	1	S1 (COS +)	Red (RD)	S1 (COS +)	1	
	2	S3 (COS -)	Blue (BU)	S3 (COS -)	9	
	3	S2 (SIN +)	Yellow (YE)	S2 (SIN +)	2	
	4	S4 (SIN -)	Green (GN)	S4 (SIN -)	10	
	7	GND	Gray-pink (GYPK) / pink (PK)	GND	8	
	8	Us	Red blue (RDBU)	Us	15	
	9	TF / TH / KTY +	Brown (BN)	TF / TH / KTY +	14	
	10	TF / TH / KTY -	White (WH)	TF / TH / KTY -	6	

12.23 Forced cooling fan cables

12.23.1 Cable for motors with forced cooling fan VR

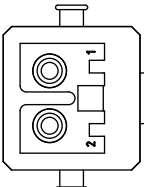


- [1] Connector: STAK 200
- [2] Printed on connector: SEW-EURODRIVE
- [3] Nameplate
- [4] Line length ≤ 5 m: Tolerance +200 mm
Line length ≥ 5 m: Tolerance +2%
Permitted line length according to the technical documents.

12.23.2 Cable types for motors with forced cooling fan VR

Type	Cross section	Routing	Part number
CMP	3 × 1 mm ² (AWG 18)	Fixed installation	01986341
CMP		Cable carrier installation	0199560X

12.23.3 Pin assignment of cables for motors with VR forced cooling fan

STAK 200 plug connector view X	Con- tact	Core iden- tification	As- signed	Pin	Connection type
Connector with two socket con- tacts 	1	Digit 1	24 V +	Cut-off, length approx. 250 mm	Conductor end sleeves
	2	Digit 2	0 V		

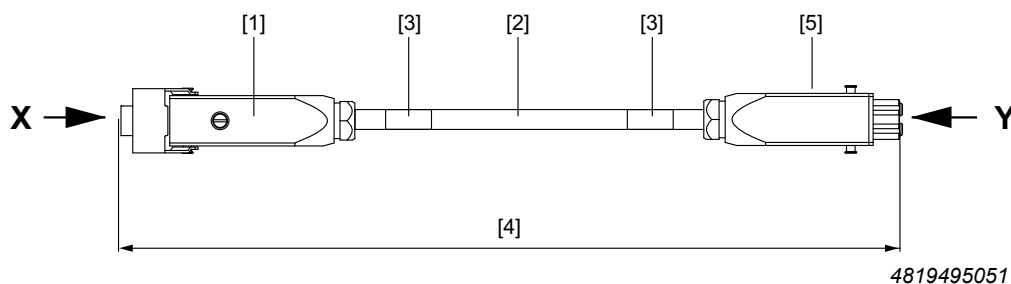
19381212/EN – 03/2015

12.23.4 Alternative connector for VR forced cooling fan cable

Signal plug connector with socket contacts (complete)

Type	Cross sections that can be connected	Routing	Part number
VR	3 x 1 mm ² (AWG 18)	Fixed installation / cable carrier installation	01984985

12.23.5 Extension cable for motors with forced cooling fan VR



- [1] Connector: STAS 200
- [2] Printed on connector: SEW-EURODRIVE
- [3] Nameplate
- [4] Line length ≤ 5 m: Tolerance +200 mm
Line length ≥ 5 m: Tolerance +2%
Permitted line length according to the technical documents.
- [5] Socket: STAK 200

12.23.6 Extension cable types for motors with forced cooling fan VR

Type	Cross section	Routing	Part number
CMP	3 x 1 mm ² (AWG 18)	Fixed installation	01995618
CMP		Cable carrier installation	01995626

12.23.7 Alternative connector for cable for the VR forced cooling fan

Signal plug connector with pins (complete)

Type	Cross sections that can be connected	Part no.
VR	3 x 1 mm ²	01985693

12.24 Cable specifications of power cables

12.24.1 Fixed installation

Motor cables

Routing		Fixed					
Cable cross sections		4 x 1.5 mm ² (AWG 16)	4 x 2.5 mm ² (AWG 14)	4 x 4 mm ² (AWG 12)	4 x 6 mm ² (AWG 10)	4 x 10 mm ² (AWG 8)	4 x 16 mm ² (AWG 5)
Manufacturer		HELUKABEL					
Manufacturer designation		LI9YCY					
Operating voltage V ₀ / V AC	V	600 / 1000					
Temperature range	°C	Fixed installation – 40 to +80					
Max. temperature	°C	+80					
Min. bending radius	mm	45	55	65	73	85	106.5
Diameter D	mm	9.0 ± 0.2	11 ± 0.2	13 ± 0.2	14.3 ± 0.3	17.0 ± 0.6	21.3 ± 0.6
Core identification		BK with lettering WH + GN/YE					
Sheath color		Orange, similar to RAL 2003					
Approval(s)		DESINA / VDE / UL					
Capacitance conductor/ shield	nF/km	110	110	118	125	125	130
Capacitance core/core	nF/km	70	70	75	80	80	85
Halogen-free		No					
Silicon-free		Yes					
CFC-free		Yes					
Inner insulation (conductor)		PP					
Outer insulation (sheath)		PVC					
Flame retardant/self-extinguishing		Yes					
Conductor material		Cu					
Shielding		Tinned Cu					
Weight (cable)	kg/km	134	202	262	332	601	1040

Brakemotor cables

Routing		Fixed					
Cable cross sections		4 x 1.5 mm ² (AWG 16) + 3 x 1 mm ² (AWG 18)	4 x 2.5 mm ² (AWG 14) + 3 x 1 mm ² (AWG 18)	4 x 4 mm ² (AWG 12) + 3 x 1 mm ² (AWG 18)	4 x 6 mm ² (AWG 10) + 3 x 1.5 mm ² (AWG 16)	4 x 10 mm ² (AWG 8) + 3 x 1.5 mm ² (AWG 16)	4 x 16 mm ² (AWG 5) + 3 x 1.5 mm ² (AWG 16)
Manufacturer		HELUKABEL					
Manufacturer designation		LI9YCY					
Operating voltage V ₀ / V AC	V	600 / 1000					
Temperature range	°C	Fixed installation: – 40 to +80					
Max. temperature	°C	+80					
Min. bending radius	mm	60	68	75	85	100	116
Diameter D	mm	11.8 ± 0.4	13.4 ± 0.4	15.0 ± 0.5	17.0 ± 0.6	20.0 ± 1.0	23.2 ± 1.0
Core identification		BK with lettering WH + GN/YE					
Sheath color		Orange similar to RAL 2003					
Approval(s)		DESINA / VDE / UL					
Capacitance conductor/shield	nF/km	105	105	110	115	120	130
Capacitance core/core	nF/km	60	60	70	75	78	85
Halogen-free		No					
Silicon-free		Yes					
CFC-free		Yes					
Inner insulation (conductor)		PP					
Outer insulation (sheath)		PVC					
Flame retardant/self-extinguishing		Yes					
Conductor material		Cu					
Shielding		Tinned Cu					
Weight (cable)	kg/km	229	292	393	542	938	1230

12.24.2 Cable carrier installation

Motor cables

Routing		Cable carrier							
Cable cross sections		4 x 1.5 mm ²	4 x 2.5 mm ²	4 x 4.0 mm ²	4 x 6.0 mm ²	4 x 10 mm ²	4 x 16 mm ²	4 x 25 mm ²	4 x 35 mm ²
		(AWG 16)	(AWG 14)	(AWG 12)	(AWG 10)	(AWG 8)	(AWG 5)	(AWG 3)	(AWG 2)
Manufacturer		Nexans						Helukabel	
Manufacturer's designation		PSL(LC)C11Y-J 4 x – mm ²		PSL11YC11Y-J 4 x – mm ²				TOPSERV 109	
Operating voltage V ₀ / V AC	V	600 / 1000							
Temperature range	°C	-20 to +60					-50 to +80	-50 to +80	
Max. temperature	°C	+90 (on conductor)							
Min. bending radius	mm	134	140	135	155	180	225	191	215
Diameter D	mm	12.8 ± 0.6 /	15.7 ± 0.3	13.2 ± 0.4	15.4 ± 0.4	17.8 ± 0.5	21.8 ± 0.7	25.4	28.6
Maximum acceleration	m/s ²	20							
Max. velocity	m/min	200 at max. travel distance of 5 m							
Core identification		BK with lettering WH + GN/YE							
Sheath color		Orange similar to RAL 2003							
Approval(s)		DESINA / VDE / UL / cRUus							
Capacitance conductor/ shield	nF/km	95	95	170	170	170	–	–	–
Capacitance core/core	nF/km	65	65	95	95	95	–	–	–
Halogen-free		Yes							
Silicon-free		Yes							
CFC-free		Yes							
Inner insulation (conductor)		Polyolefin		TPM					
Outer insulation (sheath)		TPU (PUR)							
Flame retardant/self-extinguishing		Yes							
Conductor material		E-Cu blank							
Shielding		Braided tinned Cu shield (optically covered > 85%)							
Weight (cable)	kg/km	249	373	311	426	644	977	1523	2080
Min. bending cycles		≥ 5 million							

Brakemotor cables

Routing		Cable carrier					
Cable cross sections		4 x 1.5 mm ² (AWG 16) + 3 x 1 mm ² (AWG 18)	4 x 2.5 mm ² (AWG 14) + 3 x 1 mm ² (AWG 18)	4 x 4 mm ² (AWG 12) + 3 x 1 mm ² (AWG 18)	4 x 6 mm ² (AWG 10) + 3 x 1,5 mm ² (AWG 16)	4 x 10 mm ² (AWG 8) + 3 x 1,5 mm ² (AWG 16)	4 x 16 mm ² (AWG 5) + 3 x 1,5 mm ² (AWG 16)
Manufacturer		Nexans					
Manufacturer designation		PSL(LC)C11Y-J 4x... +3A.../C			PSL11YC11Y-J 4x... +3A.../C		
Operating voltage V ₀ / V AC	V	600 / 1000					
Temperature range	°C	-20 to +60					
Max. temperature	°C	+90 (conductor)					
Min. bending radius	mm	159	170	155	175	200	235
Diameter D	mm	15.0 ± 0.9	16.5 ± 0.7	15.3 ± 0.5	17.4 ± 0.5	20.5 ± 0.5	23.3 ± 0.7
Maximum acceleration	m/s ²	20					
Max. velocity	m/min	200 at max. travel distance of 5 m					
Core identification		BK with lettering WH + GN/YE					
Sheath color		Orange similar to RAL 2003					
Approval(s)		DESINA / VDE / UL / cRUus					
Capacitance conductor/shield	nF/km	105	105	170	170	170	170
Capacitance core/core	nF/km	65	65	95	95	95	95
Halogen-free		Yes					
Silicon-free		Yes					
CFC-free		Yes					
Inner insulation (cable)		TPM					
Outer insulation (sheath)		Polyolefin			TPU (PUR)		
Flame retardant/self-extinguishing		Yes					
Conductor material		E-Cu blank					
Shielding		Braided tinned Cu shield (optically covered > 85%)					
Weight (cable)	kg/km	335	433	396	522	730	1053
Min. bending cycles		≥ 5 million					

12.25 Cable specification of encoder cables

12.25.1 Fixed installation of feedback cables

Accessory designation		AS1H / ES1H / AK0H / EK0H / AK1H / EK1H	RH1M
Cable cross sections		6 x 2 x 0.25 mm ²	5 x 2 x 0.25 mm ²
Manufacturer		HELUKABEL	
Manufacturer designation		LI9YCY	
Operating voltage V ₀ / V AC	V	230 / 350	
Temperature range	°C	Fixed installation -40 to +80	
Max. temperature	°C	+ 80	
Min. bending radius	mm	43	36.5
Diameter D	mm	8.6 ± 0.2	7.3 ± 0.2
Core identification		DIN 47 100	
Sheath color		Green, similar to RAL 6018	
Approval(s)		DESINA / VDE / cRUus	
Capacitance core/shielding	nF/km	110	
Capacitance core/core	nF/km	70	
Halogen-free		No	
Silicone-free		Yes	
CFC-free		Yes	
Inner insulation (conductor)		PP	
Outer insulation (sheath)		PVC	
Flame-retardant/self-extinguishing		No	
Conductor material		Cu blank	
Shielding		Braided tinned Cu	
Weight (cable)	kg/km	107	78

12.25.2 Cable carrier installation of feedback cables

Accessory designation		AS1H / ES1H / AK0H / EK0H / AK1H / EK1H	RH1M
Cable cross sections		6 x 2 x 0.25 mm ²	5 x 2 x 0.25 mm ²
Manufacturer		Nexans	
Manufacturer designation		SSL18YC11Y 6 x 2 x 0.25/ SSL11YC11Y 5 x 2 x 0.25	
Operating voltage V ₀ / V AC	V	300	
Temperature range	°C	-20 to + 60	
Max. temperature	°C	+90 (on conductor)	
Min. bending radius	mm	100	80
Diameter D	mm	9.8 ± 0.2	9.5 ± 0.2
Maximum acceleration	m/s ²	20	
Max. velocity	m/min	200	
Core identification		WH/BN, GN/YE, GY/PK, BU/RD, BK/VT, GY-PK/RD-BU	WH/BN, GN/YE, GY/PK, BU/RD, BK/VT
Sheath color		Green similar to RAL 6018	
Approval(s)		DESINA / VDE / cRUus	
Capacitance core/shielding	nF/km	100	
Capacitance core/core	nF/km	55	
Halogen-free		Yes	
Silicone-free		Yes	
CFC-free		Yes	
Inner insulation (conductor)		PP	
Outer insulation (sheath)		TPE-U	
Flame-retardant/self-extinguishing		Yes	
Conductor material		E-Cu blank	
Shielding		Braided tinned Cu	
Weight	kg/km	130	120
Min. bending cycles		≥ 5 million	

12.26 Cable specifications of forced cooling fan cables

12.26.1 Fixed installation of forced cooling fan cables

Accessory designation		VR
Cable cross sections		3 x 1 mm ²
Manufacturer		Lapp
Manufacturer's designation		Ölflex 110 Classic
Operating voltage V ₀ / V AC	V	300 / 500
Temperature range	°C	-30 to +70
Max. temperature	°C	+ 70
Min. bending radius	mm	24
Diameter D	mm	6.0 ± 0.3
Core identification		VDE 0293
Sheath color		Silver gray, RAL 7001
Approval(s)		VDE
Capacitance core/shielding	nF/km	–
Capacitance core/core	nF/km	–
Halogen-free		No
Silicone-free		Yes
CFC-free		Yes
Inner insulation (conductor)		PVC
Outer insulation (sheath)		PVC
Flame-retardant/self-extinguishing		No
Conductor material		Cu blank
Shielding		–
Weight (cable)	kg/km	65

12.26.2 Cable carrier installation for forced cooling fan cables

Accessory designation		VR
Cable cross sections		3 x 1 mm ²
Manufacturer		Nexans
Manufacturer designation		PSL 3 x 1.0
Operating voltage V_0 / V AC	V	300
Temperature range	°C	- 30 to + 70
Max. temperature	°C	+90 (on conductor)
Min. bending radius	mm	45
Diameter D	mm	5.7 ± 0.2
Maximum acceleration	m/s ²	10
Max. velocity	m/min	50
Core identification		2 x WH with digit + 1 x GN/YE
Sheath color		Black RAL 9005
Approval(s)		VDE / UL
Capacitance core/shielding	nF/km	–
Capacitance core/core	nF/km	–
Halogen-free		Yes
Silicone-free		Yes
CFC-free		Yes
Inner insulation (conductor)		TPM
Outer insulation (sheath)		TPE-U
Flame-retardant/self-extinguishing		Yes
Conductor material		E-Cu blank
Shielding		–
Weight	kg/km	50
Min. bending cycles		≥ 5 million

13 Appendix

13.1 Cable dimensions to AWG

AWG stands for **A**merican **W**ire **G**auge and refers to the size of wires. The number specifies the diameter or cross section of a wire in code. This type of cable designation is usually only used in the USA. However, the designations can also be seen in catalogs or data sheets in Europe.

AWG designation	Cross section in mm ²
000000 (6/0)	185
00000 (5/0)	150
0000 (4/0)	120
000 (3/0)	90
00 (2/0)	70
0 (1/0)	50
1	50
2	35
3	25
4	25
5	16
6	16
7	10
8	10
9	6
10	6
11	4
12	4
13	2.5
14	2.5
15	2.5
16	1.5
16	1
18	1
19	0.75
20	0.5
21	0.5
22	0.34
23	0.25
24	0.2

14 Address Directory

Germany			
Headquarters Production plant Sales	Bruchsal	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Strasse 42 76646 Bruchsal, Germany P.O. box address Postfach 3023 • D-76642 Bruchsal, Germany	Tel. +49 7251 75-0 Fax +49 7251 75-1970 http://www.seweurodrive.com sew@sew-eurodrive.de
Production Plant / Industrial Gear Units	Bruchsal	SEW-EURODRIVE GmbH & Co KG Christian-Pähr-Str.10 76646 Bruchsal, Germany	Tel. +49 7251 75-0 Fax +49 7251 75-2970
Production plant	Graben	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Strasse 1 76676 Graben-Neudorf, Germany P.O. box address Postfach 1220 • 76671 Graben-Neudorf, Germany	Tel. +49 7251 75-0 Fax +49 7251 75-2970
	Östringen	SEW-EURODRIVE GmbH & Co KG, Oestringen Plant Franz-Gurk-Strasse 2 76684 Oestringen, Germany	Tel. +49 7253 9254-0 Fax +49 7253 9254-90 oesstringen@sew-eurodrive.de
Service Competence Centers	Mechanical/ Mechatronic Components	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Strasse 1 76676 Graben-Neudorf, Germany	Tel. +49 7251 75-1710 Fax +49 7251 75-1711 sc-mitte@sew-eurodrive.de
	Electronics	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Strasse 42 76646 Bruchsal, Germany	Tel. +49 7251 75-1780 Fax +49 7251 75-1769 sc-elektronik@sew-eurodrive.de
Drive Technology Center	North	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Strasse 40-42 30823 Garbsen (near Hanover)	Tel. +49 5137 8798-30 Fax +49 5137 8798-55 sc-nord@sew-eurodrive.de
	East	SEW-EURODRIVE GmbH & Co KG Daenkritzer Weg 1 08393 Meerane (near Zwickau)	Tel. +49 3764 7606-0 Fax +49 3764 7606-30 sc-ost@sew-eurodrive.de
	South	SEW-EURODRIVE GmbH & Co KG Domagkstrasse 5 85551 Kirchheim (near Munich)	Tel. +49 89 909552-10 Fax +49 89 909552-50 sc-sued@sew-eurodrive.de
	West	SEW-EURODRIVE GmbH & Co KG Siemensstrasse 1 40764 Langenfeld (near Düsseldorf)	Tel. +49 2173 8507-30 Fax +49 2173 8507-55 sc-west@sew-eurodrive.de
	Drive Service Hotline/24-hour availability		+49 800 SEWHELP +49 800 7394357
Technical offices	Augsburg	SEW-EURODRIVE GmbH & Co KG August-Wessels-Strasse 27 86156 Augsburg, Germany	Tel. +49 821 22779-10 Fax +49 821 22779-50 tb-augsburg@sew-eurodrive.de
	Berlin	SEW-EURODRIVE GmbH & Co KG Lilienthalstrasse 3a 12529 Schoenefeld, Germany	Tel. +49 306331131-30 Fax +49 306331131-36 tb-berlin@sew-eurodrive.de
	Lake Constance	SEW-EURODRIVE GmbH & Co KG Dornierstraße 4 88677 Markdorf, Germany	Tel. +49 7544 96590-90 Fax +49 7544 96590-99 tb-bodensee@sew-eurodrive.de
	Bremen	SEW-EURODRIVE GmbH & Co KG Bornstr.19 ... 22 28195 Bremen, Germany	Tel. +49 421 33918-10 Fax +49 421 33918-22 tb-bremen@sew-eurodrive.de
	Dortmund	SEW-EURODRIVE GmbH & Co KG Hildastraße 8 44145 Dortmund, Germany	Tel. +49 231 229028-10 Fax +49 231 229028-20 tb-dortmund@sew-eurodrive.de
	Dresden	SEW-EURODRIVE GmbH & Co KG Hauptstrasse 32 01445 Radebeul, Germany	Tel. +49 351 26338-0 Fax +49 351 26338-38 tb-dresden@sew-eurodrive.de
	Erfurt	SEW-EURODRIVE GmbH & Co KG Dubliner Strasse 12 99091 Erfurt, Germany	Tel. +49 361 21709-70 Fax +49 361 21709-79 tb-erfurt@sew-eurodrive.de
	Guestrow	SEW-EURODRIVE GmbH & Co KG Glasewitzer Chaussee 33 B 18273 Guestrow, Germany P.O. box address Postfach 1216 • 18262 Güstrow, Germany	Tel. +49 3843 8557-80 Fax +49 3843 8557-88 tb-guestrow@sew-eurodrive.de

Germany			
	Hamburg	SEW-EURODRIVE GmbH & Co KG Bramfelder Strasse 119 22305 Hamburg, Germany	Tel. +49 40 298109-60 Fax +49 40 298109-70 tb-hamburg@sew-eurodrive.de
	Hanover/Garbsen	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Str.40-42 30823 Garbsen, Germany P.O. box address Postfach 1104 53 • 30804 Garbsen, Germany	Tel. +49 5137 8798-10 Fax +49 5137 8798-50 tb-hannover@sew-eurodrive.de
	Heilbronn	SEW-EURODRIVE GmbH & Co KG Zeppelinstrasse 7 74357 Boennigheim, Germany	Tel. +49 7143 8738-0 Fax +49 7143 8738-25 tb-heilbronn@sew-eurodrive.de
	Herford	SEW-EURODRIVE GmbH & Co KG Göbenstraße 3 – 7 32052 Herford	Tel. +49 5221 9141-0 Fax +49 5221 9141-20 tb-herford@sew-eurodrive.de
	Karlsruhe	SEW-EURODRIVE GmbH & Co KG Ettlinger Weg 2 76467 Bietigheim, Germany P.O. box address Postfach 43 • 76463 Bietigheim, Germany	Tel. +49 7245 9190-10 Fax +49 7245 9190-20 tb-karlsruhe@sew-eurodrive.de
	Kassel	SEW-EURODRIVE GmbH & Co KG Lange Strasse 14 34253 Lohfelden, Germany	Tel. +49 561 95144-80 Fax +49 561 95144-90 tb-kassel@sew-eurodrive.de
	Koblenz	SEW-EURODRIVE GmbH & Co KG Bahnstrasse 17a 56743 Mendig, Germany	Tel. +49 2652 9713-30 Fax +49 2652 9713-40 tb-koblenz@sew-eurodrive.de
	Lahr	SEWEURODRIVE GmbH & Co KG Europastrasse 3/1 77933 Lahr/Schwarzwald, Germany	Tel. +49 7821 90999-60 Fax +49 7821 90999-79 tb-lahr@sew-eurodrive.de
	Langenfeld	SEW-EURODRIVE GmbH & Co KG Siemensstrasse 1 40764 Langenfeld, Germany	Tel. +49 2173 8507-10 Fax +49 2173 8507-50 tb-langenfeld@sew-eurodrive.de
	Magdeburg	SEW-EURODRIVE GmbH & Co KG Breiteweg 53 39179 Barleben, Germany	Tel. +49 39203 7577-1 Fax +49 39203 7577-9 tb-magdeburg@sew-eurodrive.de
	Mannheim	SEW-EURODRIVE GmbH & Co KG Besselstrasse 26 68219 Mannheim, Germany	Tel. +49 621 71683-10 Fax +49 621 71683-22 tb-mannheim@sew-eurodrive.de
	Munich	SEW-EURODRIVE GmbH & Co KG Domagkstrasse 5 85551 Kirchheim, Germany	Tel. +49 89 90955-110 Fax +49 89 90955-150 tb-muenchen@sew-eurodrive.de
	Muenster	SEW-EURODRIVE GmbH & Co KG Hafenplatz 4 48155 Muenster, Germany	Tel. +49 251 41475-11 Fax +49 251 41475-50 tb-muenster@sew-eurodrive.de
	Nuremberg	SEW-EURODRIVE GmbH & Co KG Plattenaeckerweg 6 90455 Nuremberg, Germany	Tel. +49 911 98884-50 Fax +49 911 98884-60 tb-nuernberg@sew-eurodrive.de
	Regensburg	SEW-EURODRIVE GmbH & Co KG Im Gewerbepark A15 93059 Regensburg, Germany	Tel. +49 941 46668-68 Fax +49 941 46668-66 tb-regensburg@sew-eurodrive.de
	Rhine-Main	SEW-EURODRIVE GmbH & Co KG Niederstedter Weg 5 61348 Bad Homburg, Germany	Tel. +49 6172 9617-0 Fax +49 6172 9617-50 tb-rheinmain@sew-eurodrive.de
	Stuttgart	SEW-EURODRIVE GmbH & Co KG Friedrich-List-Strasse 46 70771 Leinfelden-Echterdingen, Germany	Tel. +49 711 16072-0 Fax +49 711 16072-72 tb-stuttgart@sew-eurodrive.de
	Ulm	SEWEURODRIVE GmbH & Co KG Dieselstrasse 14 89160 Dornstadt, Germany	Tel. +49 7348 9885-0 Fax +49 7348 9885-90 tb-ulm@sew-eurodrive.de
	Drive Center Wuerzburg	SEW-EURODRIVE GmbH & Co KG Nuernbergerstrasse 118 97076 Wuerzburg-Lengfeld, Germany	Tel. +49 931 27886-60 Fax +49 931 27886-66 tb-wuerzburg@sew-eurodrive.de
	Zwickau / Meer- ane	SEW-EURODRIVE GmbH & Co KG Dänkritzer Weg 1 08393 Meerane, Germany	Tel. +49 3764 7606-0 Fax +49 3764 7606-20 tb-zwickau@sew-eurodrive.de

France			
Production plant Sales Service	Haguenau	SEW-USOCOME 48-54 route de Soufflenheim B. P. 20185 67506 Haguenau Cedex, France	Tel. +33 3 88 73 67 00 Fax +33 3 88 73 66 00 http://www.usocome.com sew@usocome.com
Production plant	Forbach	SEW-USOCOME Zone industrielle Technopôle Forbach Sud B. P. 30269 57604 Forbach Cedex, France	Tel. +33 3 87 29 38 00
Assembly plant Sales Service	Bordeaux	SEW-USOCOME Parc d'activités de Magellan 62 avenue de Magellan - B. P. 182 33607 Pessac Cedex, France	Tel. +33 5 57 26 39 00 Fax +33 5 57 26 39 09
	Lyon	SEW-USOCOME Parc d'affaires Roosevelt Rue Jacques Tati 69120 Vaulx en Velin, France	Tel. +33 4 72 15 37 00 Fax +33 4 72 15 37 15
	Nantes	SEW-USOCOME Parc d'activités de la forêt 4 rue des Fontenelles 44140 Le Bignon, France	Tel. +33 2 40 78 42 00 Fax +33 2 40 78 42 20
	Paris	SEW-USOCOME Zone industrielle 2 rue Denis Papin 77390 Verneuil l'Etang, France	Tel. +33 1 64 42 40 80 Fax +33 1 64 42 40 88
Technical offices	Alsace	SEW-USOCOME 1 rue Auguste Gasser 68360 Soultz, France	Tel. +33 3 89 74 51 62 Fax +33 3 89 76 58 71
	Aquitaine/Char- ente	SEW-USOCOME Parc d'activités de Magellan 62 avenue de Magellan - B.P.182 33607 Pessac Cedex, France	Tel. +33 5 57 26 39 08 Fax +33 5 57 26 39 09
	Auvergne/Limou- sin	SEW-USOCOME Farges 19600 Chateaux, France	Tel. +33 5 55 20 12 10 Fax +33 5 55 20 12 11
	Lower Normandy	SEW-USOCOME 5 rue de la Limare 14250 Brouay, France	Tel. +33 2 31 37 92 86 Fax +33 2 31 74 68 15
	Burgundy	SEW-USOCOME 10 rue de la poste 71350 Saint Loup Géanges, France	Tel. +33 3 85 49 92 18 Fax +33 3 85 49 92 19
	Brittany	SEW-USOCOME Parc d'activités de la forêt 4 rue des Fontenelles 44140 Le Bignon, France	Tel. +33 2 40 78 42 04 Fax +33 2 40 78 42 20
	Centre/Poitou	SEW-USOCOME Parc d'activités de la forêt 4 rue des Fontenelles 44140 Le Bignon, France	Tel. +33 2 40 78 42 11 Fax +33 2 40 78 42 20
	Champagne-Ard- enne	SEW-USOCOME 25 bis rue Victor Hugo Appartement 7 10120 Saint André les Vergers, France	Tel. +33 3 25 79 63 24 Fax +33 3 25 79 63 25
	Franche-Comté	SEW-USOCOME 24 avenue Charles Boby 70000 Quincey, France	Tel. +33 3 81 60 20 47 Fax +33 3 81 87 75 93
	Île-de-France East/Aisne	SEW-USOCOME 20 rue Félix Faure 02100 Saint Quentin, France	Tel. +33 3 23 62 81 24 Fax +33 3 23 62 81 44
	Île-de-France North/Picardy	SEW-USOCOME 25bis rue Kléber 92300 Levallois Perret, France	Tel. +33 1 41 05 92 74 Fax +33 1 41 05 92 75
	Île-de-France South	SEW-USOCOME 6 chemin des bergers Lieu-dit Marchais 91410 Roinville sous Dourdan, France	Tel. +33 1 60 81 10 56 Fax +33 1 60 81 10 57

France			
	Lothringen/North-ern Alsace	SEW-USOCOME 1 rue de la forêt 54250 Champigneulle, France	Tel. +33 3 83 96 28 04 Fax +33 3 83 96 28 07
	Midi-Pyrénées/Roussillon	SEW-USOCOME 179 route de Grazac 31190 Caujac, France	Tel. +33 5 61 08 15 85 Fax +33 5 61 08 16 44
	Nord-Pas-de-Cal-ais	SEW-USOCOME 209, route d'Hesdigneul 62360 Hesdin l'Abbé, France	Tel. +33 3 21 10 86 86 Fax +33 3 21 10 86 87
	Paris/Île-de-France West	SEW-USOCOME 42 avenue Jean Jaurès 78580 Maule, France	Tel. +33 1 30 90 89 86 Fax +33 1 30 90 93 15
	Pays de la Loire	SEW-USOCOME Parc d'activités de la forêt 4 rue des Fontenelles 44140 Le Bignon, France	Tel. +33 2 40 78 42 03 Fax +33 2 40 78 42 20
	Provence-Alpes-Côte d'Azur	SEW-USOCOME Le Clos Montolivet 9 impasse Bounin – Bât. A 13012 Marseille, France	Tel. +33 4 91 18 00 11 Fax +33 4 91 18 00 12
	Rhône-Alpes East	SEW-USOCOME Montée de la Garenne 26750 Génissieux, France	Tel. +33 4 75 05 65 95 Fax +33 4 75 05 65 96
	Rhône-Alpes North	SEW-USOCOME Parc d'affaires Roosevelt Rue Jacques Tati 69120 Vaulx en Velin, France	Tel. +33 4 72 15 37 03 Fax +33 4 72 15 37 15
	Rhône-Alpes West	SEW-USOCOME Parc d'affaires Roosevelt Rue Jacques Tati 69120 Vaulx en Velin, France	Tel. +33 4 72 15 37 04 Fax +33 4 72 15 37 15
Algeria			
Sales	Algiers	REDUCOM Sarl 16, rue des Frères Zaghroune Bellevue 16200 El Harrach Alger	Tel. +213 21 8214-91 Fax +213 21 8222-84 info@reducom-dz.com http://www.reducom-dz.com
Argentina			
Assembly plant Sales	Buenos Aires	SEW EURODRIVE ARGENTINA S.A. Ruta Panamericana Km 37.5, Lote 35 (B1619IEA) Centro Industrial Garín Prov. de Buenos Aires	Tel. +54 3327 4572-84 Fax +54 3327 4572-21 sewar@sew-eurodrive.com.ar http://www.sew-eurodrive.com.ar
	Córdoba	SEW EURODRIVE ARGENTINA S.A. Ruta Nacional 19, Manzana 97, Lote 5 (X5125) Malvinas Argentinas Prov. de Córdoba	Tel. +54 351-490-0010 sewcor@sew-eurodrive.com.ar http://www.sew-eurodrive.com.ar
	Santa Fe	SEW EURODRIVE ARGENTINA S.A. Ruta Prov. 21 Km 7, Lote 41 Parque Industrial Alvear (2126) Gral. Alvear Prov. de Santa Fe	Tel. +54 341-317-7277 sewsfe@sew-eurodrive.com.ar http://www.sew-eurodrive.com.ar
Service	Mendoza	SEW EURODRIVE ARGENTINA S.A.	Tel. +54 261-430-0060 sewmen@sew-eurodrive.com.ar http://www.sew-eurodrive.com.ar
Technical offices	Tucumán	SEW EURODRIVE ARGENTINA S.A. Balcarce 609 (T4000IAM) S.M. de Tucumán Prov. de Tucumán	Tel. +54 381-400-4569 sewtuc@sew-eurodrive.com.ar http://www.sew-eurodrive.com.ar
	Bahía Blanca	SEW EURODRIVE ARGENTINA S.A. O'Higgins 95, 1er Piso A (B8000IVA) Bahía Blanca Prov. de Buenos Aires	Tel. +54 291-451-7345 sewbb@sew-eurodrive.com.ar http://www.sew-eurodrive.com.ar
	Comahue	SEW EURODRIVE ARGENTINA S.A. Puerto Rico 1885 (R8324IOE) Cipolletti Prov. de Río Negro	Tel. +54 299-478-1290 sewcomahue@sew-eurodrive.com.ar http://www.sew-eurodrive.com.ar

Argentina			
Mining	Mendoza	SEW EURODRIVE ARGENTINA S.A.	Tel. +54 261-430-0060 mineria@sew-eurodrive.com.ar http://www.sew-eurodrive.com.ar
Australia			
Assembly plants Sales Service	Melbourne	SEW-EURODRIVE PTY. LTD. 27 Beverage Drive Tullamarine, Victoria 3043, Australia	Tel. +61 3 9933-1000 Fax +61 3 9933-1003 http://www.sew-eurodrive.com.au enquires@sew-eurodrive.com.au
	Sydney	SEW-EURODRIVE PTY. LTD. 9, Sleigh Place, Wetherill Park New South Wales, 2164, Australia	Tel. +61 2 9725-9900 Fax +61 2 9725-9905 enquires@sew-eurodrive.com.au
Sales Service	Adelaide	SEW-EURODRIVE PTY. LTD. 9C Park Way Mawson Lakes, SA 5095, Australia	Tel. +61 8 8161 4000 Fax +61 8 8161 4002 enquires@sew-eurodrive.com.au
	Brisbane	SEW-EURODRIVE PTY. LTD. 1 /34 Collinsvale St Rocklea, Queensland, 4106, Australia	Tel. +61 7 3276 5100 Fax +61 7 3276 5102 enquires@sew-eurodrive.com.au
	Perth	SEW-EURODRIVE PTY. LTD. 10 Colin Jamieson Drive Welshpool, WA 6106, Australia	Tel. +61 8 9251-4900 Fax +61 8 9251-4903 enquires@sew-eurodrive.com.au
Sales	Townsville	SEW-EURODRIVE PTY. LTD. 12 Leyland Street Garbutt, QLD 4814, Australia	Tel. +61 7 4779 4333 Fax +61 7 4779 5333 enquires@sew-eurodrive.com.au
Austria			
Assembly plant Sales Service	Vienna	SEW-EURODRIVE Ges.m.b.H. Richard-Strauss-Strasse 24 1230 Wien, Austria	Tel. +43 1 617 55 00-0 Fax +43 1 617 55 00-30 http://www.sew-eurodrive.at sew@sew-eurodrive.at
Technical offices	Linz	SEW-EURODRIVE Ges.m.b.H. Reuchlinstr. 6/3 4020 Linz, Austria	Tel. +43 732 655 109-0 Fax +43 732 655 109-20 tb-linz@sew-eurodrive.at
	Graz	SEW-EURODRIVE Ges.m.b.H. Grabenstraße 231 8045 Graz, Austria	Tel. +43 316 685 756-0 Fax +43 316 685 755 tb-graz@sew-eurodrive.at
	Dornbirn	SEW-EURODRIVE Ges.m.b.H. Lustenauerstraße 27/1 6850 Dornbirn, Austria	Tel. +43 5572 3725 99-0 Fax +43 5572 3725 99-20 tb-dornbirn@sew-eurodrive.at
Bangladesh			
Sales	Bangladesh	SEW-EURODRIVE INDIA PRIVATE LIMITED 345 DIT Road East Rampura Dhaka-1219, Bangladesh	Mobile +88 01729 097309 salesdhaka@seweurodrivebangla- desh.com
Belarus			
Sales	Minsk	SEW-EURODRIVE BY RybalkoStr. 26 220033 Minsk, Belarus	Tel. +375 17 298 47 56 / 298 47 58 Fax +375 17 298 47 54 http://www.sew.by sales@sew.by
Belgium			
Assembly plant Sales Service	Brussels	SEW-EURODRIVE n.v./s.a. Researchpark Haasrode 1060 Evenementenlaan 7 BE-3001 Leuven	Tel. +32 16 386-311 Fax +32 16 386-336 http://www.sew-eurodrive.be info@sew-eurodrive.be
Service Competence Centers	Industrial gear units	SEW-EURODRIVE n.v./s.a. Rue de Parc Industriel, 31 6900 Marche-en-Famenne, Belgium	Tel. +32 84 219-878 Fax +32 84 219-879 http://www.sew-eurodrive.be service-wallonie@sew-eurodrive.be
Brazil			
Production plant Sales Service	São Paulo	SEW-EURODRIVE Brasil Ltda. Avenida Amâncio Gaiolli, 152 - Rodovia Presi- dente Dutra Km 208 Guarulhos - 07251-250 - SP, Brazil SAT - SEW ATENDE - 0800 7700496	Tel. +55 11 2489-9133 Fax +55 11 2480-3328 http://www.sew-eurodrive.com.br sew@sew.com.br

Brazil			
Assembly plants Sales Service	Rio Claro	SEW-EURODRIVE Brasil Ltda. Rodovia Washington Luiz, Km 172 Condominio Industrial Conpark Caixa Postal: 327 13501-600 – Rio Claro / SP	Tel. +55 19 3522-3100 Fax +55 19 3524-6653 montadora.rc@sew.com.br
	Joinville	SEW-EURODRIVE Brasil Ltda. Rua Dona Francisca, 12.346 – Pirabeiraba 89239-270 – Joinville / SC	Tel. +55 47 3027-6886 Fax +55 47 3027-6888 filial.sc@sew.com.br
	Indaiatuba	SEW-EURODRIVE Brasil Ltda. Estrada Municipal Jose Rubim, 205 Rodovia Santos Dumont Km 49 13347-510 – Indaiatuba / SP	Tel. +55 19 3835-8000 sew@sew.com.br
Bulgaria			
Sales	Sofia	BEVER-DRIVE GmbH Bogdanovetz Str.1 1606 Sofia, Bulgaria	Tel. +359 2 9151160 Fax +359 2 9151166 bever@bever.bg
Cameroon			
Sales	Douala, Came- roon	Electro-Services Rue Drouot Akwa B.P. 2024 Douala, Cameroon	Tel. +237 33 431137 Fax +237 33 431137 electrojemba@yahoo.fr
Canada			
Assembly plants Sales Service	Toronto	SEW-EURODRIVE CO. OF CANADA LTD. 210 Walker Drive Bramalea, ON L6T 3W1	Tel. +1 905 791-1553 Fax +1 905 791-2999 http://www.sew-eurodrive.ca l.watson@sew-eurodrive.ca
	Vancouver	SEW-EURODRIVE CO. OF CANADA LTD. Tilbury Industrial Park 7188 Honeyman Street Delta, BC V4G 1G1	Tel. +1 604 946-5535 Fax +1 604 946-2513 b.wake@sew-eurodrive.ca
	Montreal	SEW-EURODRIVE CO. OF CANADA LTD. 2555 Rue Leger Lasalle, PQ H8N 2V9	Tel. +1 514 367-1124 Fax +1 514 367-3677 a.peluso@sew-eurodrive.ca
Please contact us for more addresses of service centers in Canada.			
Chile			
Assembly plant Sales Service	Santiago de Chile	SEW-EURODRIVE CHILE LTDA. Las Encinas 1295 Parque Industrial Valle Grande LAMP RCH-Santiago de Chile P.O. box address Casilla 23 Correo Quilicura - Santiago - Chile	Tel. +56 2 75770-00 Fax +56 2 75770-01 http://www.sew-eurodrive.cl ventas@sew-eurodrive.cl
China			
Production plant Assembly plant Sales Service	Tianjin	SEW-EURODRIVE (Tianjin) Co., Ltd. No. 46, 7th Avenue, TEDA Tianjin 300457	Tel. +86 22 25322612 Fax +86 22 25323273 info@sew-eurodrive.cn http://www.sew-eurodrive.cn
Assembly plant Sales Service	Suzhou	SEW-EURODRIVE (Suzhou) Co., Ltd. 333, Suhong Middle Road Suzhou Industrial Park Jiangsu Province, 215021	Tel. +86 51262581781 Fax +86 512 62581783 suzhou@sew-eurodrive.cn
	Guangzhou	SEW-EURODRIVE (Guangzhou) Co., Ltd. No. 9, JunDa Road East Section of GETDD Guangzhou 510530, China	Tel. +86 20 82267890 Fax +86 20 82267922 guangzhou@sew-eurodrive.cn
	Shenyang	SEW-EURODRIVE (Shenyang) Co., Ltd. 10A-2, 6th Road Shenyang Economic Technological Develop- ment Area Shenyang, 110141, China	Tel. +86 24 25382538 Fax +86 24 25382580 shenyang@sew-eurodrive.cn

China			
	Wuhan	SEW-EURODRIVE (Wuhan) Co., Ltd. 10A-2, 6th Road No. 59, the 4th Quanli Road, WEDA 430056 Wuhan, China	Tel. +86 27 84478388 Fax +86 27 84478389 wuhan@sew-eurodrive.cn
	Xi'An	SEW-EURODRIVE (Xi'An) Co., Ltd. No. 12 Jinye 2nd Road Xi'An High-Technology Industrial Development Zone Xi'An 710065	Tel. +86 29 68686262 Fax +86 29 68686311 xian@sew-eurodrive.cn
Colombia			
Assembly plant Sales Service	Bogota	SEW-EURODRIVE COLOMBIA LTDA. Calle 22 No. 132-60 Bodega 6, Manzana B Santafé de Bogotá, Colombia	Tel. +57 1 54750-50 Fax +57 1 54750-44 http://www.sew-eurodrive.com.co sew@sew-eurodrive.com.co
Côte d'Ivoire			
Sales	Abidjan	SICA Société Industrielle & Commerciale pour l'Afrique 165, Boulevard de Marseille 26 BP 1173 Abidjan 26	Tel. +225 21 25 79 44 Fax +225 21 25 88 28 sicamot@aviso.ci
Croatia			
Sales Service	Zagreb	KOMPEKS d. o. o. Zeleni dol 10 10 000 Zagreb, Croatia	Tel. +385 1 4613-158 Fax +385 1 4613-158 kompeks@inet.hr
Czech Republic			
Sales Assembly plant Service	Hostivice	SEW-EURODRIVE CZ S.R.O. Floriánova 2459 253 01 Hostivice	Tel. +420 255 709 601 Fax +420 235 350 613 http://www.sew-eurodrive.cz sew@sew-eurodrive.cz
	Drive Service Hot- line/24-hour avail- ability	HOTLINE: +420 800 739 739 (800 SEW SEW)	Service: Tel. +420 255 709 632 Fax +420 235 358 218 servis@sew-eurodrive.cz
Assembly plant Service	Plzeň	SEW-EURODRIVE CZ S.R.O. Areal KRPA a.s. Zahradní 173/2 326 00 Plzeň	Tel. +420 378 775 320 Fax +420 377 970 710 sew@sew-eurodrive.cz
Technical offices	Brno	SEW-EURODRIVE CZ S.R.O. Křenová 52 60200 Brno	Tel. +420 543 254 174 Fax +420 543 256 845 radek.chmela@sew-eurodrive.cz
	Hradec Králové	SEW-EURODRIVE CZ S.R.O. Čechova 498 50202 Hradec Králové	Tel. +420 495 510 141 Fax +420 495 521 313 miroslav.moravec@sew-eurodrive.cz
	Ostrava	SEW-EURODRIVE CZ S.R.O. Studentská 6202/17 708 00 Ostrava-Poruba	Tel. +420 597 329 044 david.kenkus@sew-eurodrive.cz
	Klatovy	SEW-EURODRIVE CZ S.R.O. Videňská 841 33901 Klatovy	Tel. +420 376 331 634 Fax +420 376 331 634 viktor.kubernat@sew-eurodrive.cz
Service	Horní Moštěnice	SEW-EURODRIVE CZ S.R.O. Nám.Dr.M.Tyrše 14/64 751 17 Horní Moštěnice	Tel. +420 581 224 374 Fax +420 581 224 374 servis@sew-eurodrive.cz
Denmark			
Assembly plant Sales Service	Copenhagen	SEW-EURODRIVE A/S Geminivej 28-30 2670 Greve, Denmark	Tel. +45 43 9585-00 Fax +45 43 9585-09 http://www.sew-eurodrive.dk sew@sew-eurodrive.dk
Egypt			
Sales Service	Cairo	Copam Egypt for Engineering & Agencies 33 El Hegaz ST, Heliopolis, Cairo, Egypt	Tel. +20 2 22566-299 +1 23143088 Fax +20 2 22594-757 http://www.copam-egypt.com/ copam@datum.com.eg

Estonia			
Sales	Tallinn	ALAS-KUUL AS Reti tee 4 EE-75301 Peetri küla, Rae vald, Harjumaa, Estonia	Tel. +372 6593230 Fax +372 6593231 veiko.soots@alas-kuul.ee
Finland			
Assembly plant Sales Service	Hollola	SEW-EURODRIVE OY Vesimäentie 4 15860 Hollola 2, Finland	Tel. +358 201 589-300 Fax +358 3 780-6211 http://www.sew-eurodrive.fi sew@sew.fi
Service	Hollola	SEW-EURODRIVE OY Keskikankaantie 21 FIN-15860 Hollola	Tel. +358 201 589-300 Fax +358 3 780-6211 http://www.sew-eurodrive.fi sew@sew.fi
Technical offices	Helsinki	SEW-EURODRIVE OY Luutnantintie 5 00410 Helsinki, Finland	Tel. +358 201 589-300 sew@sew.fi
	Vaasa	SEW-EURODRIVE OY Asemakatu 7 65100 Vaasa, Finland	Tel. +358 201 589-300 sew@sew.fi
	Kuopio	SEW-EURODRIVE OY Viestikatu 3 70600 Kuopio, Finland	Tel. +358 201 589-300 sew@sew.fi
Production plant Assembly plant	Karkkila	SEW Industrial Gears Oy Valurinkatu 6, PL 8 FI-03600 Karkkila, 03601 Karkkila	Tel. +358 201 589-300 Fax +358 201 589-310 sew@sew.fi http://www.sew-eurodrive.fi
Gabon			
Sales	Libreville, Gabon	ESG Electro Services Gabon Feu Rouge Lalala 1889 Libreville Gabon	Tel. +241 741059 Fax +241 741059 esg_services@yahoo.fr
Greece			
Sales	Athens	Christ. Boznos & Son S.A. 12, K. Mavromichali Street P.O. Box 80136 GR-18545 Piraeus	Tel. +30 2 1042 251-34 Fax +30 2 1042 251-59 http://www.boznos.gr info@boznos.gr
Technical office	Thessaloniki	Christ. Boznos & Son S.A. Asklipiou 26 562 24 Evosmos, Thessaloniki, Greece	Tel. +30 2 310 7054-00 Fax +30 2 310 7055-15 info@boznos.gr
Great Britain			
Assembly plant Sales Service	Normanton	SEW-EURODRIVE Ltd. DeVilliers Way Trident Park Normanton West Yorkshire WF6 1GX	Tel. +44 1924 893-855 Fax +44 1924 893-702 http://www.sew-eurodrive.co.uk info@sew-eurodrive.co.uk
	Drive Service Hotline/24-hour availability		Tel. +44 1924 896911
Service Competence Centers	Southern England	SEW-EURODRIVE Ltd. Unit 41 Easter Park Benyon Road Silchester Reading Berkshire RG7 2PQ	Tel. +44 1189 701-699 Fax +44 1189 701-021
Technical offices	Midlands	SEW-EURODRIVE Ltd. 5 Sugar Brook Court Aston Road Bromsgrove Worcs. B60 3EX	Tel. +44 1527 877-319 Fax +44 1527 575-245

Great Britain			
	Scotland	SEW-EURODRIVE Ltd. No 37 Enterprise House Springkerse Business Park Stirling FK7 7UF	Tel. +44 17 8647-8730 Fax +44 17 8645-0223
Hong Kong			
Assembly plant Sales Service	Hong Kong	SEW-EURODRIVE LTD. Unit No. 801-806, 8th Floor Hong Leong Industrial Complex No. 4, Wang Kwong Road Kowloon, Hong Kong	Tel. +852 36902200 Fax +852 36902211 contact@sew-eurodrive.hk
Hungary			
Sales Service	Budapest	SEW-EURODRIVE Kft. 1037 Budapest, Hungary Kunigunda u. 18	Tel. +36 1 437 06-58 Fax +36 1 437 06-50 http://www.sew-eurodrive.hu office@sew-eurodrive.hu
India			
Company office Assembly plant Sales Service	Vadodara	SEW-EURODRIVE India Private Limited Plot No. 4, GIDC POR Ramangamdi • Vadodara - 391 243, India Gujarat	Tel. +91 265 3045200, +91 265 2831086 Fax +91 265 3045300, +91 265 2831087 http://www.seweurodriveindia.com salesvadodara@seweurodriveindia.com
Assembly plant Sales Service	Chennai	SEW-EURODRIVE India Private Limited Plot No. K3/1, Sipcot Industrial Park Phase II Mambakkam Village Sriperumbudur - 602105 Kancheepuram Dist, Tamil Nadu	Tel. +91 44 37188888 Fax +91 44 37188811 saleschennai@seweurodriveindia.com
Technical offices	Ahmedabad	SEW-EURODRIVE India Private Limited 306, Shaan office complex, Behind Sakar-IV, Ellisebridge, Ashram Road Ahmedabad – Gujarat, India	Tel. +91 79 40072067/68 Fax +91 79 40072069 salesahmedabad@seweurodriveindia.com
	Aurangabad	SEW-EURODRIVE INDIA PRIVATE LIMITED	Tel. +91 86000 12333 salesaurangabad@seweurodriveindia.com
	Bangalore	SEW-EURODRIVE India Private Limited Sy.no:41-P3, Peenya1, Phase 1A, Peenya Vil- lage, Yeswanthapura Hobli, Bangalore North Ta- luk, Bangalore Dist, Karnataka	Tel. +91 80 22266565 Fax +91 80 22266569 salesbangalore@seweurodriveindia.com
		SEW-EURODRIVE India Private Limited # C-104, 3rd Block, KSSIDC Complex, Electronic City. Bangalore – 560100, Karnataka	Tel. +91 80 28522662 / 28522663 salesbangalore@seweurodriveindia.com
	Bangladesh	SEW-EURODRIVE INDIA PRIVATE LIMITED Genetic Udayanchal, House-96 (6th Floor), Road-23/A, Block-B, Banani, Dhaka-1213, Bangladesh	Mobile +88 01729 097309 salesdhaka@seweurodrivebangla- desh.com
	Bellary	SEW-EURODRIVE India Private Limited Door no-56/279 Ward No-16, Sindhigi com- pound, Near Raghavendra talkies, Bellary-583101 Karnataka	Tel. +91 77609 88668 salesbellary@seweurodriveindia.com
	Chandigarh	SEW-EURODRIVE India Private Limited # 72, Type- 4, Power Colony, Chandigarh - Rupnagar Highway Rupnagar- 140001, Punjab	Tel. +91 81462 67606 saleschandigarh@seweurodrivein- dia.com
	Chennai	SEW-EURODRIVE India Private Limited 2nd Floor, Josmans Complex, No. 5, McNichols Road, Chetpet Chennai - 600031 - Tamil Nadu, India	Tel. +91 44 42849813 Fax +91 44 42849816 saleschennai@seweurodriveindia.com
	Kochi	SEW-EURODRIVE India Private Limited CF7-(2), Block No 1, Vasanth Nagar, Opposite Jawahar Lal Nehru Stadium, Palarivattom – Cochin 682025	Tel. +91 98951 30375 salescochin@seweurodriveindia.com

India			
	Coimbatore	SEW-EURODRIVE INDIA PRIVATE LIMITED 687/2, SRI SAKTHIVEL TOWERS (NEAR DEEPAM HOSPITAL) TRICHY ROAD, RAMANATHAPURAM COIMBATORE - 641 045.Tamilnadu, India	Tel. +91 422 2322420 Fax +91 422 2323988 salescoimbatore@seweurodrivein- dia.com
	Cuttack	SEW-EURODRIVE India Private Limited Plot No. 1764, Nuasahi, Nayapalli Bhubaneswar-12 Orissa	Tel. +91 9937446333 salescuttack@seweurodriveindia.com
	Gandhidham	SEW-EURODRIVE India Private Limited TCX-S-28, FF, Ward 12/A, Gandhidham - Kutch - 370201	Tel. +91 81282 36850 salesgandhidham@seweurodrivein- dia.com
	Hyderabad	SEW-EURODRIVE India Private Limited 408, 4th Floor, Meridian Place Green Park Road Amerpet Hyderabad - 500016 - Andhra Pradesh, India	Tel. +91 40 23414698 Fax +91 40 23413884 saleshyderabad@seweurodriveindia.com
	Jamshedpur	SEW-EURODRIVE India Private Limited Flat no.: S1 "Kashi Kunj",h. No. 60, New Rani Kudar Road No - 3 P.o. + P.s. - Kadma Jamshedpur - Pin - 831005 Jharkhand	Tel. +91 9934123671 salesjamshedpur@seweurodrivein- dia.com
	Kolhapur	SEW EURODRIVE India Private Limited	Tel. +91 86000 20846 saleskolhapur@seweurodriveindia.com
	Kolkata	SEW EURODRIVE India Private Limited 2nd floor, Room No. 35 Chowringhee Court 55, Chowringhee Road Kolkata - 700 071 - West Bengal, India	Tel. +91 33 22827457 Fax +91 33 22894204 saleskolkata@seweurodriveindia.com
	Lucknow	SEW-EURODRIVE India Private Limited 69, Shiv Vihar Colony Vikas Nagar-5 Lucknow 226022 - Uttar Pradesh	Tel. +91 9793627333 saleslucknow@seweurodriveindia.com
	Mumbai	SEW-EURODRIVE India Private Limited 312 A, 3rd Floor, Acme Plaza, J.B. Nagar, Andheri Kurla Road, Andheri (E) Mumbai - 400059 - Maharashtra, India	Tel. +91 22 28348440 Fax +91 22 28217858 salesmumbai@seweurodriveindia.com
	Nagpur	SEW-EURODRIVE India Private Limited Plot No 49, New Kailash Nager, Samta colony, Nagpur-440027	Tel. +91 95610 89525 salesnagpur@seweurodriveindia.com
	Nashik	SEW-EURODRIVE India Private Limited 107, "YOG" Bunglow, Mahatma Nagar, Trimbak Road, Nashik, Maharashtra – 422 007	Tel. +91 9665752978 salesnashik@seweurodriveindia.com
	New Delhi	SEW-EURODRIVE India Private Limited 1008, 10th Floor, 12th Level "Westend Mall" Tower Plot, District Centre Adjacent Hotel Hilton Janak Puri, New Delhi – 110058	Tel. +91 11 25544111 Fax +91 11 25544113 salesdelhi@seweurodriveindia.com
	Pune	SEW-EURODRIVE India Private Limited Jai Tulajabhavani Complex. Office No: 15 First Floor, Opp. Century Enka Company, MIDC Bhosari, Pune 411 026	Tel. +91 20-65118890 / 91 Fax +91 20 25380721 salespune@seweurodriveindia.com
		SEW-EURODRIVE India Private Limited LUNAWAT PRISM 4th Floor, S.No. 148 Opposite Wanaz Company, Besides Mega Mart At Neena Co-Operative Housing Society, Paud Road, Pune 411038 - Maharashtra, India	Tel. +91 20 25380730/735 Fax +91 20 25380721 salespune@seweurodriveindia.com praveen.hosur@seweurodriveindia.com
	Raipur	SEW-EURODRIVE India Private Limited A-42, Ashoka Millenium Complex, Ring Road-1, Raipur 492 001 - Chhattisgarh, India	Tel. +91 771 4090765 Fax +91 771 4090765 salesraipur@seweurodriveindia.com

India			
	Ranchi	SEW-EURODRIVE India Private Limited Flat No.: A - 101, Krishna Shree Apartment, Anantpur, P.O. Doranda – Ranchi 834002	Tel. +91 8294630772 salesranchi@seweurodriveindia.com
	Tiruchirappalli	SEW-EURODRIVE India Private Limited A-106, Trichy Towers, Chandrasekarapuram, Salai Road, Trichy – 620018.	Mobile +91 95009 88081 salestrichy@seweurodriveindia.com
	Vadodara	SEW-EURODRIVE India Private Limited Unit No. 301, Savorite Bldg, Plot No. 143, Vinayak Society, off old Padra Road, Vadodara - 390 007. Gujarat	Tel. +91 265 2325258 Fax +91 265 2325259 salesvadodara@seweurodriveindia.com
	Vijayawada	SEW-EURODRIVE India Private Limited Door No:40-5/3-10A, Syam Nagar, NGO's Colony, Tikkle Road, Vijayawada-520010	Tel. +91 99895 01748 Fax +91 8662475157 Mobile +91 9989501748 salesvijayawada@seweurodriveindia.com

Indonesia			
Sales	Jakarta	PT. Cahaya Sukses Abadi Komplek Rukan Puri Mutiara Blok A no 99, Sunter Jakarta 14350, Indonesia	Tel. +62 21 65310599 Fax +62 21 65310600 csajkt@cbn.net.id
		PT. Agrindo Putra Lestari Jl.Prof.DR.Latumenten no27/A Jakarta 11330	Tel. +62 21 63855588 Fax +62 21 63853789 aplindo@indosat.net.id
	Medan	PT. Serumpun Indah Lestari Pulau Solor no. 8, Kawasan Industri Medan II Medan 20252	Tel. +62 61 687 1221 Fax +62 61 6871429 / +62 61 6871458 / +62 61 30008041 sil@serumpunindah.com serumpunindah@yahoo.com
	Surabaya	PT. TRIAGRI JAYA ABADI Jl. Sukosemolo No. 63, Galaxi Bumi Permai G6 No. 11 Surabaya 60122	Tel. +62 31 5990128 Fax +62 31 5962666 triagri@indosat.net.id
		CV. Multi Mas Jl. Raden Saleh 43A Kav. 18 Surabaya 60174	Tel. +62 31 5458589 / +62 31 5317224 Fax +62 31 5317220 / +62 31 5994629 sianhwa@sby.centrin.net.id

Ireland			
Sales Service	Dublin	Alpertor Engineering Ltd. 48 Moyle Road Dublin Industrial Estate Glasnevin, Dublin 11, Ireland	Tel. +353 1 830-6277 Fax +353 1 830-6458 info@alperton.ie http://www.alperton.ie

Iceland			
Sales	Reykjavik	VARMA & VELAVERK EHF Dalshrauni 5 IS-220 Hafnarjörður	Tel. +354 585 1070 Fax +354 585 1071 varmaverk@varmaverk.is http://www.varmaverk.is

Israel			
Sales	Tel Aviv	Liraz Handasa Ltd. Ahofer Str 34B / 228 58858 Holon, Israel	Tel. +972 3 5599511 Fax +972 3 5599512 http://www.liraz-handasa.co.il office@liraz-handasa.co.il

Italy			
Assembly plant Sales Service	Solaro	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via Bernini, 14 I-20020 Solaro (Milano), Italy	Tel. +39 02 96 9801 Fax +39 02 96 980 999 http://www.sew-eurodrive.it sewit@sew-eurodrive.it
Technical offices	Bologna	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via della Grafica, 47 40064 Ozzano dell'Emilia (Bo), Italy	Tel. +39 051 65-23-801 Fax +39 02 96 980 499

Italy			
	Caserta	SEW-EURODRIVE di R. Blicke & Co.s.a.s. Viale Carlo III Km. 23,300 81020 S. Nicola la Strada (Caserta), Italy	Tel. +39 0823 219011 Fax +39 02 96 980 599
	Milan	SEW-EURODRIVE di R. Blicke & Co.s.a.s. Via Bernini, 14 I-20020 Solaro (Milano), Italy	Tel. +39 02 96 980229 Fax +39 02 96 980 999
	Pescara	SEW-EURODRIVE di R. Blicke & Co.s.a.s. Viale Europa, 132 I-65010 Villa Raspa di Spoltore (PE)	Tel. +39 085 41-59-427 Fax +39 02 96 980 699
	Turin	SEW-EURODRIVE di R. Blicke & Co.s.a.s. Filiale Torino c.so Unione Sovietica 612/15 - int. C 10135 Torino, Italy	Tel. +39 011 3473780 Fax +39 02 96 980 799
	Verona	SEW-EURODRIVE di R. Blicke & Co.s.a.s. Via Antonio Meucci 5, I-37042 - Caldiero (VR)	Tel. +39 045 89-239-11 Fax +39 02 96 980 814
Japan			
Assembly plant Sales Service	Iwata	SEW-EURODRIVE JAPAN CO., LTD 250-1, Shimoman-no, Iwata Shizuoka 438-0818	Tel. +81 538 373811 Fax +81 538 373855 http://www.sew-eurodrive.co.jp sewjapan@sew-eurodrive.co.jp
Technical offices	Fukuoka	SEW-EURODRIVE JAPAN CO., LTD. C-go, 5th-floor, Yakuin-Hiruzu-Bldg. 1-5-11, Yakuin, Chuo-ku Fukuoka, 810-0022, Japan	Tel. +81 92 713-6955 Fax +81 92 713-6860 sewkyushu@jasmine.ocn.ne.jp
	Osaka	SEW-EURODRIVE JAPAN CO., LTD. Higobashi Shimizu Bldg. 10th floor 1-3-7 Tosabori, Nishi-ku Osaka, 550-0001, Japan	Tel. +81 6 6444--8330 Fax +81 6 6444--8338 sewosaka@crocus.ocn.ne.jp
	Tokyo	SEW-EURODRIVE JAPAN CO., LTD. Omarimon Yusen Bldg. 13th floor 3-23-5 Nishinbashi, Minato-ku Tokyo 105-0003, Japan	Tel. +81 3 3239-0469 Fax +81 3 3239-0943 sewtokyo@basil.ocn.ne.jp
Kazakhstan			
Sales	Almaty	TOO "СЕВ-ЕВРОДРАЙВ" пр.Райымбека, 348 050061 г. Алматы Республика Казахстан	Тел. +7 (727) 334 1880 Факс +7 (727) 334 1881 http://www.sew-eurodrive.kz sew@sew-eurodrive.kz
Kenya			
Sales	Nairobi	Barico Maintenances Ltd Kamutaga Place Commercial Street Industrial Area P.O.BOX 52217 - 00200 Nairobi	Tel. +254 20 6537094/5 Fax +254 20 6537096 info@barico.co.ke
Latvia			
Sales	Riga	SIA Alas-Kuul Katlakalna 11C 1073 Riga, Latvia	Tel. +371 6 7139253 Fax +371 6 7139386 http://www.alas-kuul.com info@alas-kuul.com
Lebanon			
Sales Lebanon	Beirut	Gabriel Acar & Fils sarl B. P. 80484 Bourj Hammoud, Beirut, Lebanon	Tel. +961 1 510 532 Fax +961 1 494 971 ssacar@inco.com.lb
		After Sales Service	service@medrives.com
Sales Jordan / Ku- wait / Saudi Arabia / Syria	Beirut	Middle East Drives S.A.L. (offshore) Sin El Fil. B. P. 55-378 Beirut	Tel. +961 1 494 786 Fax +961 1 494 971 info@medrives.com http://www.medrives.com
		After Sales Service	service@medrives.com

Lithuania			
Sales	Alytus	UAB Irseva Statybininku 106C LT-63431 Alytus	Tel. +370 315 79204 Fax +370 315 56175 irmantas@irseva.lt http://www.sew-eurodrive.lt
Luxembourg			
Assembly plant Sales Service	Brussels	SEW-EURODRIVE n.v./s.a. Researchpark Haasrode 1060 Evenementenlaan 7 BE-3001 Leuven	Tel. +32 16 386-311 Fax +32 16 386-336 http://www.sew-eurodrive.lu info@sew-eurodrive.be
Madagascar			
Sales	Antananarivo	Ocean Trade BP21bis. Andraharo Antananarivo. 101 Madagascar	Tel. +261 20 2330303 Fax +261 20 2330330 oceantrabp@moov.mg
Malaysia			
Assembly plant Sales Service	Johor	SEW-EURODRIVE SDN BHD No. 95, Jalan Seroja 39, Taman Johor Jaya 81000 Johor Bahru, Johor West Malaysia	Tel. +60 7 3549409 Fax +60 7 3541404 sales@sew-eurodrive.com.my
Technical offices	Kuala Lumpur	SEW-EURODRIVE Sdn. Bhd. No. 2, Jalan Anggerik Mokara 31/46 Kota Kemuning Seksyen 31 40460 Shah Alam Selangor Darul Ehsan	Tel. +60 3 51229633 Fax +60 3 51229622 sewsa@sew-eurodrive.com.my
	Kuching	SEW-EURODRIVE Sdn. Bhd. Lot 268, Section 9 KTL D Lorong 9, Jalan Satok 93400 Kuching, Sarawak East Malaysia	Tel. +60 82 232380 Fax +60 82 242380
	Penang	SEW-EURODRIVE Sdn. Bhd. No. 38, Jalan Bawal Kimsar Garden 13700 Prai, Penang	Tel. +60 4 3999349 Fax +60 4 3999348 sewpg@sew-eurodrive.com.my
Morocco			
Sales Service	Mohammedia	SEW-EURODRIVE SARL 2 bis, Rue Al Jahid 28810 Mohammedia	Tel. +212 523 32 27 80/81 Fax +212 523 32 27 89 sew@sew-eurodrive.ma http://www.sew-eurodrive.ma
Mauritania			
Sales	Zouérat	AFRICOM - SARL En Face Marché Dumez P.B. 88 Zouérate	Tel. +222 45 44 50 19 Fax +222 45 44 03 14 contact@africom-sarl.com
Macedonia			
Sales	Skopje	Boznos DOOEL Dime Anicin 2A/7A 1000 Skopje	Tel. +389 23256553 Fax +389 23256554 http://www.boznos.mk
Mexico			
Assembly plant Sales Service	Quéretaro	SEW-EURODRIVE MEXICO SA DE CV SEM-981118-M93 Tequisquiapan No. 102 Parque Industrial Quéretaro C.P. 76220 Quéretaro, Mexico	Tel. +52 442 1030-300 Fax +52 442 1030-301 http://www.sew-eurodrive.com.mx scmexico@sew-eurodrive.com.mx
Mongolia			
Sales	Ulan Bator	SEW-EURODRIVE Representative Office Mon- golia Olympic street 8, 2nd floor Juulchin corp bldg., Sukhbaatar district, Ulaanbaatar 14253	Tel. +976-70009997 Fax +976-70009997 http://www.sew-eurodrive.mn sew@sew-eurodrive.mn

Namibia			
Sales	Swakopmund	DB Mining & Industrial Services Einstein Street Strauss Industrial Park Unit1 Swakopmund	Tel. +264 64 462 738 Fax +264 64 462 734 sales@dbmining.in.na
New Zealand			
Assembly plants Sales Service	Auckland	SEW-EURODRIVE NEW ZEALAND LTD. P.O. Box 58-428 82 Greenmount Drive East Tamaki Auckland, New Zealand	Tel. +64 9 2745627 Fax +64 9 2740165 http://www.sew-eurodrive.co.nz sales@sew-eurodrive.co.nz
	Christchurch, New Zealand	SEW-EURODRIVE NEW ZEALAND LTD. 10 Settlers Crescent, Ferrymead Christchurch, New Zealand	Tel. +64 3 384-6251 Fax +64 3 384-6455 sales@sew-eurodrive.co.nz
Technical offices	Palmerston North	SEW-EURODRIVE NEW ZEALAND LTD. C/-Grant Shearman, RD 5, Aronui Road Palmerston North	Tel. +64 6 355-2165 Fax +64 6 355-2316 sales@sew-eurodrive.co.nz
Netherlands			
Assembly plant Sales Service	Rotterdam	SEW-EURODRIVE B.V. Industrieweg 175 3044 AS Rotterdam, Netherlands Postbus 10085 3004 AB Rotterdam, Netherlands	Tel. +31 10 4463-700 Fax +31 10 4155-552 Service: 0800-SEWHELP http://www.sew-eurodrive.nl info@sew-eurodrive.nl
Nigeria			
Sales	Lagos	EISNL Engineering Solutions and Drives Ltd Plot 9, Block A, Ikeja Industrial Estate (Ogba Scheme) Adeniyi Jones St. End Off ACME Road, Ogba, Ikeja, Lagos Nigeria	Tel. +234 1 217 4332 team.sew@eisnl.com http://www.eisnl.com
Norway			
Assembly plant Sales Service	Moss	SEW-EURODRIVE A/S Solgaard skog 71 1599 Moss, Norway	Tel. +47 69 24 10 20 Fax +47 69 24 10 40 http://www.sew-eurodrive.no sew@sew-eurodrive.no
Pakistan			
Sales	Karatschi	Industrial Power Drives Al-Fatah Chamber A/3, 1st Floor Central Commercial Area, Sultan Ahmed Shah Road, Block 7/8, Karachi	Tel. +92 21 452 9369 Fax +92-21-454 7365 seweurodrive@cyber.net.pk
Paraguay			
Sales	Fernando de la Mora	SEW-EURODRIVE PARAGUAY S.R.L De la Victoria 112, Esquina nueva Asunción Departamento Central Fernando de la Mora, Barrio Bernardino	Tel. +595 991 519695 Fax +595 21 3285539 sew-py@sew-eurodrive.com.py
Peru			
Assembly plant Sales Service	Lima	SEW DEL PERU MOTORES REDUCTORES S.A.C. Los Calderos, 120-124 Urbanizacion Industrial Vulcano, ATE, Lima, Peru	Tel. +51 1 3495280 Fax +51 1 3493002 http://www.sew-eurodrive.com.pe sewperu@sew-eurodrive.com.pe
Philippines			
Sales	Luzon	Totaltech Corporation 5081-B C&L Mansion Filmore Ave. Cor. Fahrenheit St. 1235 Makati City	Tel. +63 2 551-9265 / +63 2 551-9271 / +63 2 551-9378 Fax +63 2 551-9273 totaltech89@gmail.com
	All Areas	P.T. Cerna Corporation 4137 Ponte St., Brgy. Santa Cruz, Makati City 1205	Tel. +63 2 519 6214 Fax +63 2 890 2802 mech_drive_sys@ptcerna.com

Poland			
Assembly plant Sales Service	Łódź	SEW-EURODRIVE Polska Sp.z.o.o. ul. Techniczna 5 92-518 Łódź, Poland	Tel. +48 42 676 53 00 Fax +48 42 676 53 49 http://www.sew-eurodrive.pl sew@sew-eurodrive.pl
	Service	Tel. +48 42 6765332 / 42 6765343 Fax +48 42 6765346	Linia serwisowa 24 hour hotline Tel. +48 602 739 739 (+48 602 SEW SEW) serwis@sew-eurodrive.pl
Technical office	Tychy	SEW-EURODRIVE Polska Sp.z.o.o. ul. Strzelecka 66 PL-43-109 Tychy	Tel. +48 32 32 32 610 Fax +48 32 32 32 648
	Bydgoszcz	SEW-EURODRIVE Polska Sp.z.o.o. ul. Fordońska 246 PL-85-959 Bydgoszcz	Tel. +48 52 3606590 Fax +48 52 3606591
	Gdansk	SEW-EURODRIVE Polska Sp.z.o.o. ul. Galaktyczna 30A PL-80-299 Gdańsk	Tel. +48 58 762 70 00 Fax +48 58 762 70 09
	Poznan	SEW-EURODRIVE Polska Sp.z.o.o. ul. Romana Maya 1 61-371 Poznań, Poland	Tel. +48 61 6465500 Fax +48 61 6465519
	Radom	SEW-EURODRIVE Polska Sp.z.o.o. ul. Słowackiego 84 26-600 Radom, Poland	Tel. +48 48 365 40 50 Fax +48 48 365 40 52
Portugal			
Assembly plant Sales Service	Coimbra	SEW-EURODRIVE, LDA. Apartado 15 3050-901 Mealhada, Portugal	Tel. +351 231 20 9670 Fax +351 231 20 3685 http://www.sew-eurodrive.pt infosew@sew-eurodrive.pt
	Lisbon	SEW-EURODRIVE, LDA. Núcleo Empresarial I de São Julião do Tojal Rua de Entremuros, 54 Fracção I 2660-533 São Julião do Tojal, Portugal	Tel. +351 21 958-0198 Fax +351 21 958-0245 esc.lisboa@sew-eurodrive.pt
Technical office	Porto	SEW-EURODRIVE, LDA. Av. 25 de Abril, 68 4440-502 Valongo, Portugal	Tel. +351 229 350 383 Fax +351 229 350 384 Tel. +351 9 32559110 esc.porto@sew-eurodrive.pt
Romania			
Sales Service	Bucharest	Sialco Trading SRL str. Brazilia nr. 36 011783 Bucuresti, Romania	Tel. +40 21 230-1328 Fax +40 21 230-7170 sialco@sialco.ro
Russia			
Assembly plant Sales Service	St. Petersburg	ZAO SEW-EURODRIVE P.O. Box 36 RUS-195220 St. Petersburg	Tel. +7 812 3332522 +7 812 5357142 Fax +7 812 3332523 http://www.sew-eurodrive.ru sew@sew-eurodrive.ru
	Ekaterinburg	ZAO SEW-EURODRIVE Kominerna Str. 16 Office 614 620078 Ekaterinburg, Russia	Tel. +7 343 310 3977 Fax +7 343 310 3978 eso@sew-eurodrive.ru
	Irkutsk	ZAO SEW-EURODRIVE 5-Armii Str., 31 664011 Irkutsk, Russia	Tel. +7 3952 25 5880 Fax +7 3952 25 5881 iso@sew-eurodrive.ru
	Moscow	ZAO SEW-EURODRIVE Malaja Semjonovskaja Str. д. 9, корпус 2 107023 Moscow	Tel. +7 495 9337090 Fax +7 495 9337094 mso@sew-eurodrive.ru
	Novosibirsk	ZAO SEW-EURODRIVE pr. K Marksa 30 630087 Novosibirsk, Russia	Tel. +7 383 3350200 Fax +7 383 3462544 nso@sew-eurodrive.ru
	Perm	ZAO SEW-EURODRIVE Stakhanovskaya str., 45 Office 512 RUS-614066 Perm	Tel. +7 342 2219494 Fax +7 342 2219444 psa@sew-eurodrive.ru

Russia			
	Togliatti	ZAO SEW-EURODRIVE Sportivnaya Str. 4B, office 2 Samarskaya obl. 445057 Togliatti, Russia	Tel. +7 8482 710529 Fax +7 8482 810590
Senegal			
Sales	Dakar	SENEMECA Mécanique Générale Km 8, Route de Rufisque B.P. 3251, Dakar	Tel. +221 338 494 770 Fax +221 338 494 771 senemeca@sentoosn http://www.senemeca.com
Serbia			
Sales	Belgrade	DIPAR d.o.o. Ustanicka 128a PC Košum, IV sprat SRB-11000 Beograd, Serbia	Tel. +381 11 347 3244 / +381 11 288 0393 Fax +381 11 347 1337 office@dipar.rs
Singapore			
Assembly plant Sales Service	Singapore	SEW-EURODRIVE PTE. LTD. No 9, Tuas Drive 2 Jurong Industrial Estate Singapore 638644	Tel. +65 68621701 Fax +65 68612827 http://www.sew-eurodrive.com.sg sewsingapore@sew-eurodrive.com
Slovakia			
Sales	Bratislava	SEW-EURODRIVE SK s.r.o. Rybničná 40 831 06 Bratislava, Slovakia	Tel. +421 2 33595 202 Fax +421 2 33595 200 sew@sew-eurodrive.sk http://www.sew-eurodrive.sk
	Žilina	SEW-EURODRIVE SK s.r.o. Industry Park - PChZ ulica M.R.Štefánika 71 010 01 Žilina, Slovakia	Tel. +421 41 700 2513 Fax +421 41 700 2514 sew@sew-eurodrive.sk
	Banska Bystrica	SEW-EURODRIVE SK s.r.o. Rudlovská cesta 85 974 11 Banská Bystrica, Slovakia	Tel. +421 48 414 6564 Fax +421 48 414 6566 sew@sew-eurodrive.sk
	Košice	SEW-EURODRIVE SK s.r.o. Slovenská ulica 26 040 01 Košice, Slovakia	Tel. +421 55 671 2245 Fax +421 55 671 2254 sew@sew-eurodrive.sk
Slovenia			
Sales Service	Celje	Pakman - Pogonska Tehnika d.o.o. Ul. XIV. divizije 14 3000 Celje, Slovenia	Tel. +386 3 490 83-20 Fax +386 3 490 83-21 pakman@siol.net
Spain			
Assembly plant Sales Service	Bilbao	SEW-EURODRIVE ESPAÑA, S.L. Parque Tecnológico, Edificio, 302 48170 Zamudio (Vizcaya), Spain	Tel. +34 94 43184-70 Fax +34 94 43184-71 http://www.sew-eurodrive.es sew.spain@sew-eurodrive.es
Technical offices	Barcelona	Delegación Barcelona Avda. Francesc Macià, 60 – Planta 16, porta 1 Eix Macià – "Torre Milenium" 08208 Sabadell (Barcelona), Spain	Tel. +34 93 7162200 Fax +34 93 7233007
	Madrid	Delegación Madrid Gran Via. 48-2° A-D 28220 Majadahonda (Madrid), Spain	Tel. +34 91 6342250 Fax +34 91 6340899
	Sevilla	MEB Pólogono Calonge, C/A Nave 2 - C E-41.077 Sevilla, Spain	Tel. +34 954 356 361 Fax +34 954 356 274 mebsa.sevilla@mebsa.com
	Valencia	MEB Músico Andreu i Piqueres, 4 E-46.900 Torrente (Valencia)	Tel. +34 961 565 493 Fax +34 961 566 688 mebsa.valencia@mebsa.com
Sri Lanka			
Sales	Colombo	SM International (Pte) Ltd 254, Galle Raod Colombo 4, Sri Lanka	Tel. +94 1 2584887 Fax +94 1 2582981

South Africa			
Assembly plants Sales Service	Johannesburg	SEW-EURODRIVE (PROPRIETARY) LIMITED Eurodrive House Cnr. Adcock Ingram and Aerodrome Roads Aeroton Ext. 2 Johannesburg 2013, South Africa P.O.Box 90004 Bertsham 2013, South Africa	Tel. +27 11 248-7000 Fax +27 11 494-3104 http://www.sew.co.za info@sew.co.za
	Cape Town	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town, South Africa P.O. Box 36556 Chempet 7442 Cape Town, South Africa	Tel. +27 21 552-9820 Fax +27 21 552-9830 Telex 576 062 bgriffiths@sew.co.za
	Durban, South Africa	SEW-EURODRIVE (PROPRIETARY) LIMITED 48 Prospecton Road Isipingo Durban, South Africa P.O. Box 10433, Ashwood 3605, South Africa	Tel. +27 31 902 3815 Fax +27 31 902 3826 cdejager@sew.co.za
	Nelspruit	SEW-EURODRIVE (PTY) LTD. 7 Christie Crescent Vintonia P.O. Box 1942 Nelspruit 1200	Tel. +27 13 752-8007 Fax +27 13 752-8008 robermeyer@sew.co.za
Technical offices	Port Elizabeth	SEW-EURODRIVE PTY LTD. 8 Ruan Access Park Old Cape Road Greenbushes 6000 Port Elizabeth	Tel. +27 41 3722246 Fax +27 41 3722247 dtait@sew.co.za
South Korea			
Assembly plant Sales Service	Ansan	SEW-EURODRIVE KOREA CO., LTD. B 601-4, Banweol Industrial Estate #1048-4, Shingil-Dong, Danwon-Gu, Ansan-City, Kyunggi-Do Zip 425-839	Tel. +82 31 492-8051 Fax +82 31 492-8056 http://www.sew-korea.co.kr master.korea@sew-eurodrive.com
	Busan	SEW-EURODRIVE KOREA Co., Ltd. No. 1720 - 11, Songjeong - dong Gangseo-ku Busan 618-270, Korea	Tel. +82 51 832-0204 Fax +82 51 832-0230 master@sew-korea.co.kr
Technical offices	Daegu	SEW-EURODRIVE KOREA Co., Ltd. No.1108 Sungan officetel 87-36, Duryu 2-dong, Dalseo-ku Daegu 704-712	Tel. +82 53 650-7111 Fax +82 53 650-7112
	Daejeon	SEW-EURODRIVE KOREA Co., Ltd. No. 1502, Hongin officetel 536-9, Bongmyung-dong, Yusung-ku Daejeon 305-301	Tel. +82 42 828-6461 Fax +82 42 828-6463
	Gwangju	SEW-EURODRIVE KOREA Co., Ltd. 4fl., Dae-Myeong B/D 96-16 Unam-dong, Buk-ku Kwangju 500-170	Tel. +82 62 511-9172 Fax +82 62 511-9174
	Seoul	SEW-EURODRIVE KOREA Co., Ltd. No.504 Sunkyung officetel 106-4 Kuro 6-dong, Kuro-ku Seoul 152-054, Korea	Tel. +82 2 862-8051 Fax +82 2 862-8199
Swaziland			
Sales	Manzini	C G Trading Co. (Pty) Ltd PO Box 2960 Manzini M200	Tel. +268 2 518 6343 Fax +268 2 518 5033 engineering@cgtrading.co.sz
Sweden			
Assembly plant Sales Service	Jönköping	SEW-EURODRIVE AB Gnejsvägen 6-8 55303 Jönköping, Sweden Box 3100 S-55003 Jönköping	Tel. +46 36 3442 00 Fax +46 36 3442 80 http://www.sew-eurodrive.se jonkoping@sew.se

Sweden			
Sales	Göteborg	SEW-EURODRIVE AB Gustaf Werners gata 8 42132 Västra Frölunda, Sweden	Tel. +46 31 70968 80 Fax +46 31 70968 93 goteborg@sew.se
	Stockholm	SEW-EURODRIVE AB Björkholmsvägen 10 14146 Huddinge, Sweden	Tel. +46 8 44986 80 Fax +46 8 44986 93 stockholm@sew.se
	Malmö	SEW-EURODRIVE AB Borrgatan 5 21124 Malmö, Sweden	Tel. +46 40 68064 80 Fax +46 40 68064 93 malmo@sew.se
	Skellefteå	SEW-EURODRIVE AB Trädgårdsgatan 8 93131 Skellefteå, Sweden	Tel. +46 910 7153 80 Fax +46 910 7153 93 skelleftea@sew.se
Switzerland			
Assembly plant Sales Service	Basel	Alfred Imhof A.G. Jurastrasse 10 CH-4142 Münchenstein bei Basel	Tel. +41 61 417 1717 Fax +41 61 417 1700 http://www.imhof-sew.ch info@imhof-sew.ch
Technical offices	Romandy	André Gerber Es Perreyes 1436 Chamblon, Switzerland	Tel. +41 24 445 3850 Fax +41 24 445 4887
	Bern / Solothurn	Rudolf Bühler Muntersweg 5 2540 Grenchen, Switzerland	Tel. +41 32 652 2339 Fax +41 32 652 2331
	Central Switzerland, Aargau	Armin Pfister Stierenweid 4950 Huttwill, BE, Switzerland	Tel. +41 62 962 54 55 Fax +41 62 962 54 56
	Zurich, Tessin	Gian-Michele Muletta Fischerstrasse 61 8132 Egg bei Zürich, Switzerland	Tel. +41 44 994 81 15 Fax +41 44 994 81 16
	Lake Constance and Eastern Switzerland	Markus Künzle Eichweg 4 9403 Goldach, Switzerland	Tel. +41 71 845 2808 Fax +41 71 845 2809
Taiwan (R.O.C.)			
Sales	Nan Tou	Ting Shou Trading Co., Ltd. No. 55 Kung Yeh N. Road Industrial District Nan Tou 540	Tel. +886 49 255353 Fax +886 49 257878
	Taipei	Ting Shou Trading Co., Ltd. 6F-3, No. 267, Sec. 2 Tung Hwa South Road, Taipei, Taiwan	Tel. +886 2 27383535 Fax +886 2 27368268 Telex 27 245 sewtwn@ms63.hinet.net
Tanzania			
Sales	Dar es Salaam	SEW-EURODRIVE PTY LIMITED TANZANIA Plot 52, Regent Estate PO Box 106274 Dar Es Salaam	Tel. +255 0 22 277 5780 Fax +255 0 22 277 5788 uroos@sew.co.tz
Thailand			
Assembly plant Sales Service	Chonburi	SEW-EURODRIVE (Thailand) Ltd. 700/456, Moo.7, Donhuaroh Muang Chonburi 20000, Thailand	Tel. +66 38 454281 Fax +66 38 454288 sewthailand@sew-eurodrive.com
Technical offices	Bangkok	SEW-EURODRIVE (Thailand) Ltd. 6th floor, TPS Building 1023, Phattanakarn Road Suanluang Bangkok, 10250	Tel. +66 2 7178149 Fax +66 2 7178152 sewthailand@sew-eurodrive.com
	Hat Yai	SEW-EURODRIVE (Thailand) Ltd. Hadyai Country Home Condominium 59/101 Soi.17/1 Rachas-Utid Road. Hadyai, Songkhla 90110, Thailand	Tel. +66 74 359441 Fax +66 74 359442 sewthailand@sew-eurodrive.com

Thailand			
	Khon Kaen	SEW-EURODRIVE (Thailand) Ltd. 4th Floor, Kaow-U-HA MOTOR Bldg, 359/2, Mitraphab Road. Muang District Khonkaen 40000, Thailand	Tel. +66 43 225745 Fax +66 43 324871 sew-thailand@sew-eurodrive.com

Tunisia			
Sales	Tunis	T. M.S. Technic Marketing Service Zone Industrielle Mghira 2 Lot No. 39 2082 Fouchana	Tel. +216 79 40 88 77 Fax +216 79 40 88 66 http://www.tms.com.tn tms@tms.com.tn

Turkey			
Assembly plant Sales Service	Kocaeli-Gebze	SEW-EURODRIVE Sistemleri San. Ve TIC. Ltd. Sti Gebze Organize Sanayi Böl. 400 Sok No. 401 41480 Gebze Kocaeli	Tel. +90-262-9991000-04 Fax +90-262-9991009 http://www.sew-eurodrive.com.tr sew@sew-eurodrive.com.tr
Technical offices	Adana	SEW-EURODRIVE Cevat Yurdakul Cad.No:52 Akdoğan İş Merkezi K:5 D.18 Seyhan / Adana	Tel. +90 322 359 94 15 Fax +90 322 359 94 16
	Ankara	SEW-EURODRIVE 1368.Cadde Eminel İşmerkezi No: 18/68 İvogsan / Ankara	Tel. +90 312 385 33 90 Fax +90 312 385 32 58
	Bursa	SEW-EURODRIVE Üçevler Mah. Bayraktepe Sok. Akay İş Merkezi Kat:3 No: 7/6 Nilüfer / Bursa	Tel. +90 224 443 45 60 Fax +90 224 443 45 58
	Istanbul	SEW-EURODRIVE Tekstilcent Ticaret Merkezi B-13 Blok No:70 Esenler / İstanbul	Tel. +90-262-9991000-04 Fax +90-262-9991009
	Izmir	SEW-EURODRIVE 1203/11 Sok. No. 4/614 Kara Hasan Atlı İş Merkezi Kat :6 Yenişehir / İzmir	Tel. +90 232 469 62 64 Fax +90 232 433 61 05

Ukraine			
Assembly plant Sales Service	Dnipropetrowsk	ООО «СЕВ-Евродрайв» ул.Рабочая, 23-В, офис 409 49008 Днепропетровск	Тел. +380 56 370 3211 Факс. +380 56 372 2078 http://www.sew-eurodrive.ua sew@sew-eurodrive.ua
Sales	Kiev	ООО «СЕВ-Евродрайв» ул.С.Олейника, 21 02068 Киев	Тел. +380 44 503 95 77 Факс. +380 44 503 95 78 kso@sew-eurodrive.ua
	Donetsk	ООО «СЕВ-Евродрайв» ул.25-летия РККА, 1-В, оф. 805 83000 Донецк	Тел. +380 62 38 80 545 Факс. +380 62 38 80 533 dso@sew-eurodrive.ua
	Ivano-Frankivsk	ООО «СЕВ-Евродрайв» ул.Независимости, 4, оф.303 83000 Ивано-Франковск	Тел. +380 342 725 190 Факс. +380 342 725 191 ifso@sew-eurodrive.ua

Uruguay			
Assembly plant Sales	Montevideo	SEW-EURODRIVE Uruguay, S. A. Jose Serrato 3569 Esquina Corumbe CP 12000 Montevideo	Tel. +598 2 21181-89 Fax +598 2 21181-89 sewuy@sew-eurodrive.com.uy

USA			
Production plant Assembly plant Sales Service	Southeast Region	SEW-EURODRIVE INC. 1295 Old Spartanburg Highway P.O. Box 518 Lyman, S.C. 29365	Tel. +1 864 439-7537 Fax Sales +1 864 439-7830 Fax Manufacturing +1 864 439-9948 Fax Assembly +1 864 439-0566 Fax Confidential/HR +1 864 949-5557 http://www.seweurodrive.com cslyman@seweurodrive.com

USA			
Assembly plants Sales Service	Northeast Region	SEW-EURODRIVE INC. Pureland Ind. Complex 2107 High Hill Road, P.O. Box 481 Bridgeport, New Jersey 08014, USA	Tel. +1 856 467-2277 Fax +1 856 845-3179 csbridgeport@seweurodrive.com
	Midwest Region	SEW-EURODRIVE INC. 2001 West Main Street Troy, Ohio 45373, USA	Tel. +1 937 335-0036 Fax +1 937 332-0038 cstroy@seweurodrive.com
	Southwest Region	SEW-EURODRIVE INC. 3950 Platinum Way Dallas, Texas 75237, USA	Tel. +1 214 330-4824 Fax +1 214 330-4724 csdallas@seweurodrive.com
	Western Region	SEW-EURODRIVE INC. 30599 San Antonio St. Hayward, CA 94544, USA	Tel. +1 510 487-3560 Fax +1 510 487-6433 cshayward@seweurodrive.com
Please contact us for other service center addresses in the USA.			
Venezuela			
Assembly plant Sales Service	Valencia	SEW-EURODRIVE Venezuela S.A. Av. Norte Sur No. 3, Galpon 84-319 Zona Industrial Municipal Norte Valencia, Estado Carabobo, Venezuela	Tel. +58 241 832-9804 Fax +58 241 838-6275 http://www.sew-eurodrive.com.ve ventas@sew-eurodrive.com.ve sewfinanzas@cantv.net
United Arab Emirates			
Sales Service	Sharjah	Copam Middle East (FZC) Sharjah Airport International Free Zone P.O. Box 120709 Sharjah	Tel. +971 6 5578-488 Fax +971 6 5578-499 copam_me@eim.ae
Vietnam			
Sales	Ho-Chi-Minh-Stadt	All sectors except for ports and offshore: Nam Trung Co., Ltd 250 Binh Duong Avenue, Thu Dau Mot Town, Binh Duong Province HCM office: 91 Tran Minh Quyen Street District 10, Ho Chi Minh City	Tel. +84 8 8301026 Fax +84 8 8392223 namtrungco@hcm.vnn.vn truongtantam@namtrung.com.vn khanh-nguyen@namtrung.com.vn
		Ports and offshore: DUC VIET INT LTD Industrial Trading and Engineering Services A75/6B/12 Bach Dang Street, Ward 02, Tan Binh District, 70000 Ho Chi Minh City	Tel. +84 8 62969 609 Fax +84 8 62938 842 totien@ducvietint.com
	Hanoi	Nam Trung Co., Ltd R.205B Tung Duc Building 22 Lang ha Street Dong Da District, Hanoi City	Tel. +84 4 37730342 Fax +84 4 37762445 namtrunghn@hn.vnn.vn
Zambia			
Sales	Kitwe	EC Mining Limited Plots No. 5293 & 5294, Tangaanyika Road, Off Mutentemuko Road, Heavy Industrial Park, P.O.BOX 2337 Kitwe	Tel. +260 212 210 642 Fax +260 212 210 645 sales@ecmining.com http://www.ecmining.com

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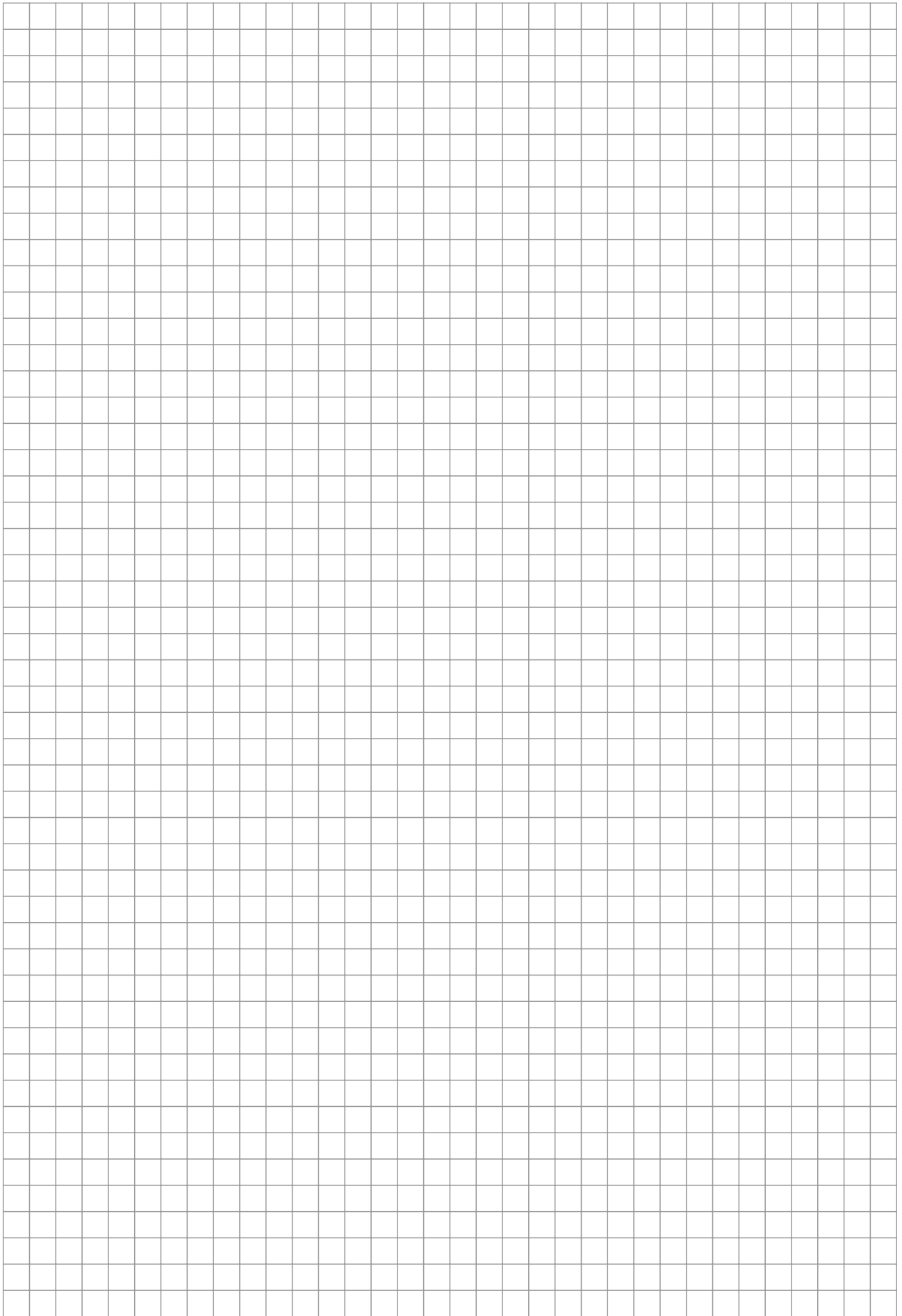
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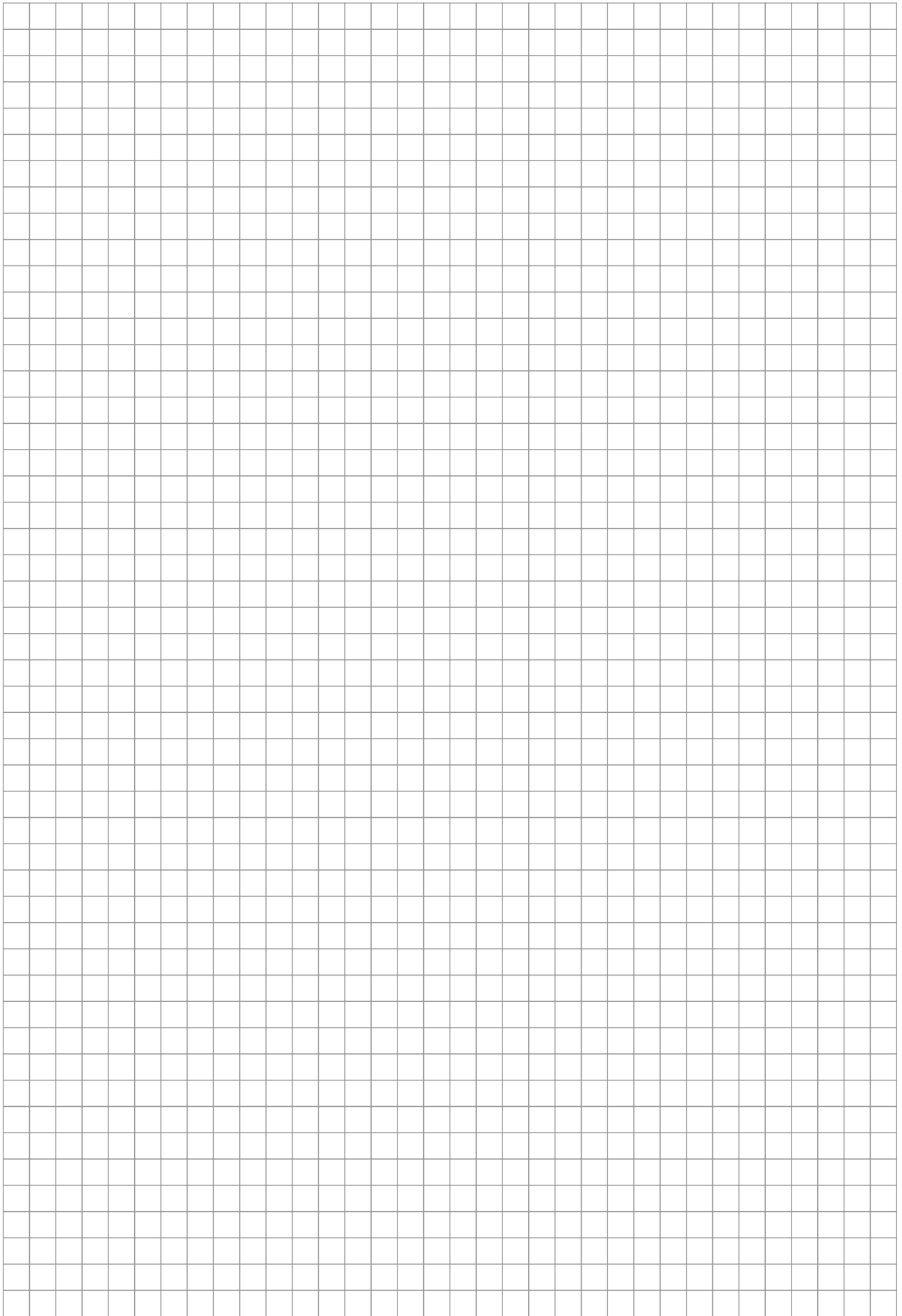
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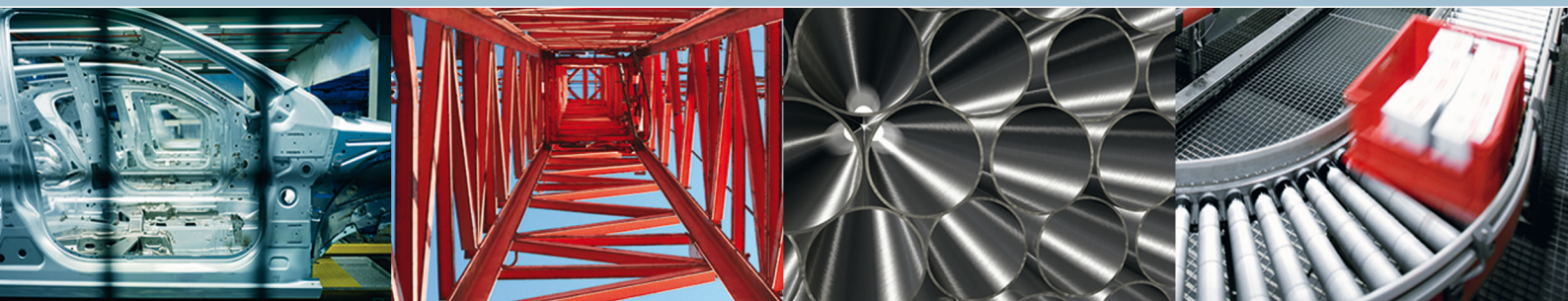
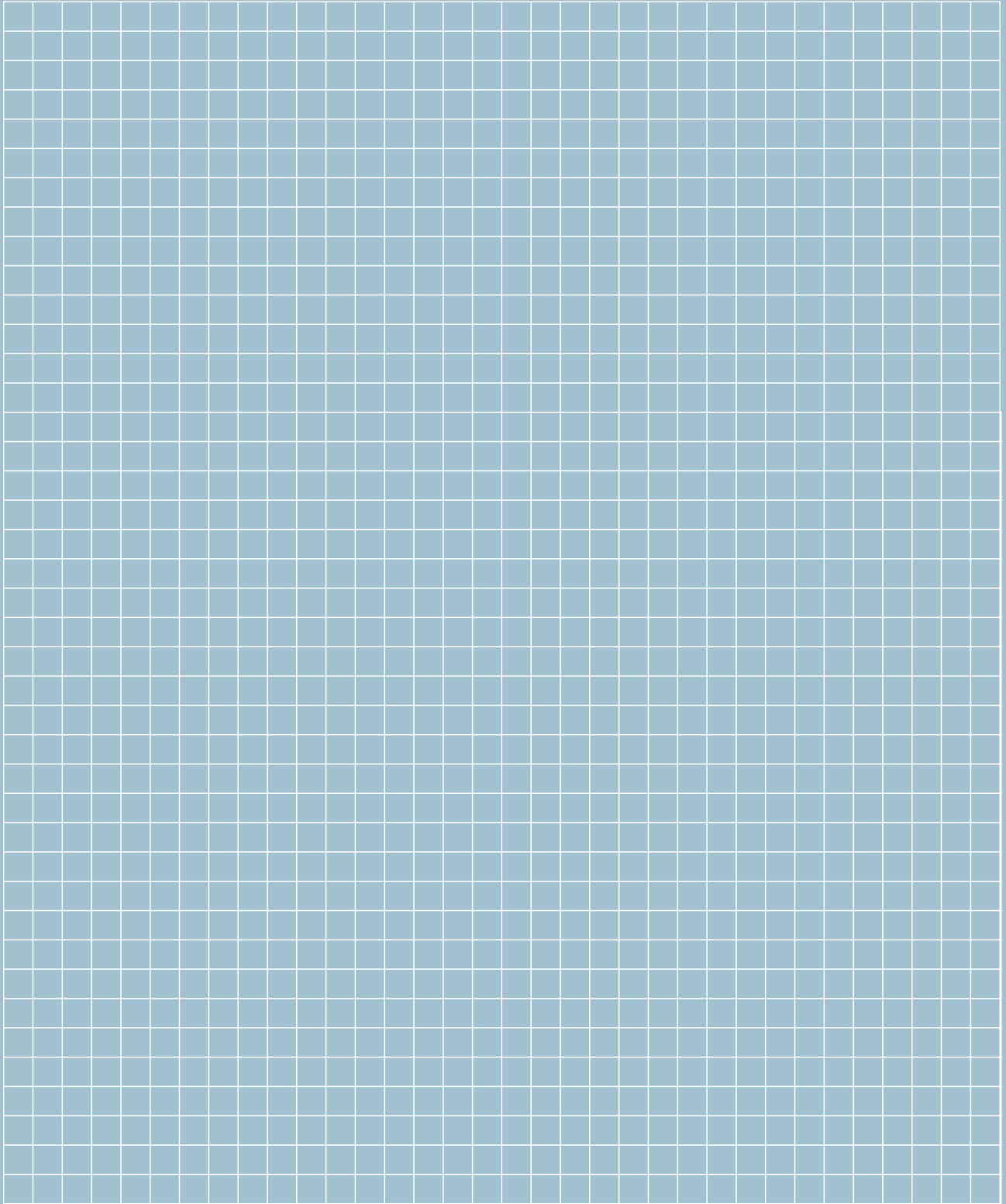
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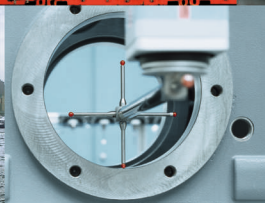
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SEW-EURODRIVE
Driving the world

SEW
EURODRIVE

SEW-EURODRIVE GmbH & Co KG
P.O. Box 3023
76642 BRUCHSAL
GERMANY
Phone +49 7251 75-0
Fax +49 7251 75-1970
sew@sew-eurodrive.com
→ www.sew-eurodrive.com