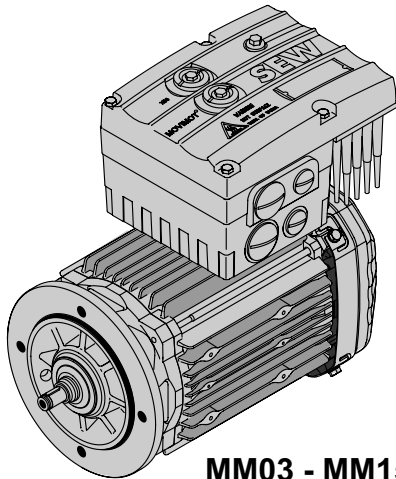


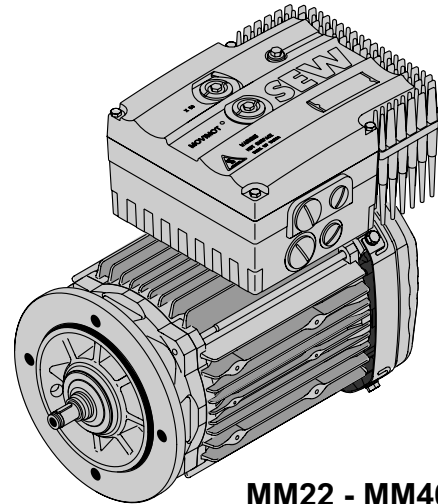
14 Technical Data and Dimension Sheets for MOVIMOT®

14.1 Available MOVIMOT® motor combinations

14.1.1 MOVIMOT® drives with DRS motors



MM03 - MM15



MM22 - MM40

63539axx

280 – 1400 rpm \curvearrowright 3 x 380 – 500 V (400 V)

IEC or C US

Type	P _n [kW]	M _n [Nm]	M _a /M _n f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ¹⁾ [kg]	m ²⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRS71S4 /../MM03	0.37	2.52	1.5	1400	1.3	0.99	4.9	6.2	5	9.9	12.3
DRS71M4 /../MM05	0.55	3.75	1.5	1400	1.6	0.99	7.1	8.4	10	11.2	13.8
DRS80S4 /../MM07	0.75	5.1	1.5	1400	1.9	0.99	14.9	16.4	10	13.6	16.6
DRS80M4 /../MM11	1.1	7.5	1.5	1400	2.4	0.99	21.5	26	14	16.4	20.1
DRS90M4 /../MM15	1.5	10.2	1.5	1400	3.5	0.99	35.5	40	20	20.5	25.1
DRS90L4 /../MM22	2.2	15.0	1.5	1400	5.0	0.99	43.5	49.5	40	24.7	30.7
DRS100M4 /../MM30	3.0	20.5	1.5	1400	6.7	0.99	56	62	40	29.2	35.2
DRS100LC4 /../MM40	4.0	27.3	1.5	1400	7.3	0.99	90	96	50	34.9	40.9

290 – 2900 rpm \triangle 3 x 380 – 500 V (400 V)

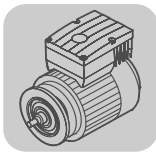
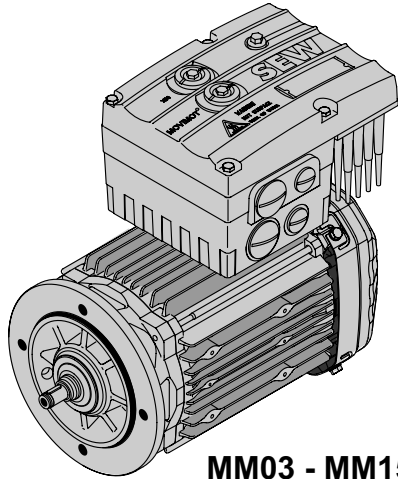
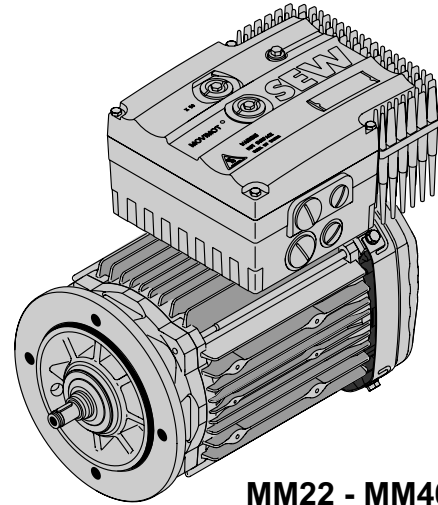
IEC or C US

Type	P _n [kW]	M _n [Nm]	M _a /M _n f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ¹⁾ [kg]	m ²⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRS71S4 /../MM05	0.55	1.81	2.0	2900	1.6	0.99	4.9	6.2	5	9.9	12.3
DRS71M4 /../MM07	0.75	2.47	2.0	2900	1.9	0.99	7.1	8.4	10	11.2	13.8
DRS80S4 /../MM11	1.1	3.62	2.0	2900	2.4	0.99	14.9	16.4	10	13.6	16.6
DRS80M4 /../MM15	1.5	4.95	1.6	2900	3.5	0.99	21.5	26	14	16.4	20.1
DRS90M4 /../MM22	2.2	7.25	1.6	2900	5.0	0.99	35.5	40	20	21.6	26.2
DRS90L4 /../MM30	3.0	9.9	1.6	2900	6.7	0.99	43.5	49.5	40	24.7	30.7
DRS100M4 /../MM40	4.0	13.2	1.6	2900	7.3	0.99	56	62	40	29.9	35.9

1) mass of motor without brake

2) mass of motor with brake

Thermal classification F as standard


14.1.2 MOVIMOT® drives with DRS motors and increased short-term torque

MM03 - MM15

MM22 - MM40


63539axx

 280 – 1400 rpm \triangleleft 3 x 380 – 500 V (400 V)

 IEC or C  US

Type	P _n [kW]	M _n [Nm]	M _a /M _n ¹⁾ f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ²⁾ [kg]	m ³⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRS71S4 /../MM05	0.37	2.52	2.1	1400	1.3	0.99	4.9	6.2	5	9.9	12.3
DRS71M4 /../MM07	0.55	3.75	2.1	1400	1.6	0.99	7.1	8.4	10	11.2	13.8
DRS80S4 /../MM11	0.75	5.1	2.1	1400	1.9	0.99	14.9	16.4	10	13.6	16.6
DRS80M4 /../MM15	1.1	7.5	2.1	1400	2.4	0.99	21.5	26	14	16.4	20.1
DRS90M4 /../MM22	1.5	10.2	2.1	1400	3.5	0.99	35.5	40	20	21.6	26.2
DRS90L4 /../MM30	2.2	15.0	2.1	1400	5.0	0.99	43.5	49.5	40	24.7	30.7
DRS100M4 /../MM40	3.0	20.5	2.0	1400	6.7	0.99	56	62	40	29.9	35.9

 290 – 2900 rpm \triangle 3 x 380 – 500 V (400 V)

 IEC or C  US

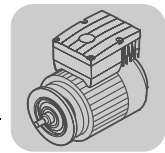
Type	P _n [kW]	M _n [Nm]	M _a /M _n ¹⁾ f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ²⁾ [kg]	m ³⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRS71S4 /../MM07	0.55	1.81	2.4	2900	1.6	0.99	4.9	6.2	5	9.9	12.3
DRS71M4 /../MM11	0.75	2.47	2.4	2900	1.9	0.99	7.1	8.4	10	11.2	13.8
DRS80S4 /../MM15	1.1	3.62	2.4	2900	2.4	0.99	14.9	16.4	10	13.6	16.6
DRS80M4 /../MM22	1.5	4.95	2.2	2900	3.5	0.99	21.5	26	14	17.5	21.2
DRS90M4 /../MM30	2.2	7.25	2.2	2900	5.0	0.99	35.5	40	20	21.6	26.2
DRS90L4 /../MM40	3.0	9.9	2.0	2900	6.7	0.99	43.5	49.5	40	25.4	31.4

1) Increased short-term torque in S3 operation, 25 % cdf

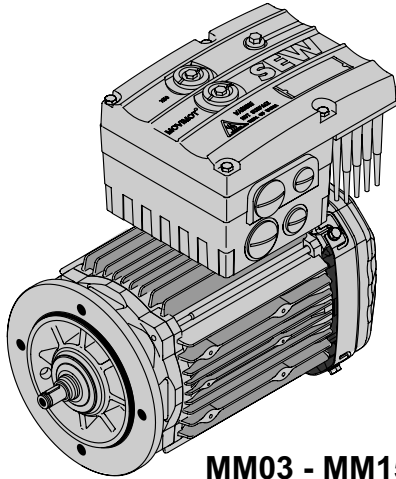
2) mass of motor without brake

3) mass of motor with brake

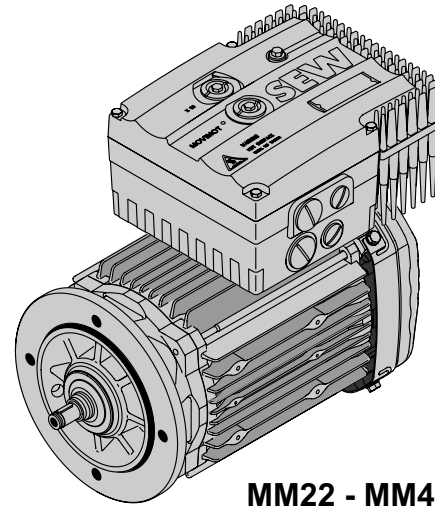
Thermal classification F as standard



14.1.3 MOVIMOT® drives with DRE motors



MM03 - MM15



MM22 - MM40

63539axx

280 – 1400 rpm \sphericalangle 3 x 380 – 500 V (400 V)

IEC or C  US

Type	P _n [kW]	M _n [Nm]	M _a /M _n f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ¹⁾ [kg]	m ²⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRE80M4 /../MM07	0.75	5.1	1.5	1400	1.9	0.99	21.5	23	10	16.4	19.4
DRE90M4 /../MM11	1.1	7.5	1.5	1400	2.4	0.99	35.5	40	20	20.5	25.1
DRE90L4 /../MM15	1.5	10.2	1.5	1400	3.5	0.99	43.5	48.5	20	23.6	28.1
DRE100M4 /../MM22	2.2	15	1.5	1400	5.0	0.99	56	62	28	29.2	35.2
DRE100LC4 /../MM30	3.0	20.5	1.5	1400	6.7	0.99	90	96	40	34.2	40.2
DRE132S4 /../MM40	4.0	27.3	1.5	1400	7.3	0.99	190	195	55	47.9	56.9

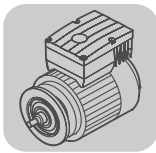
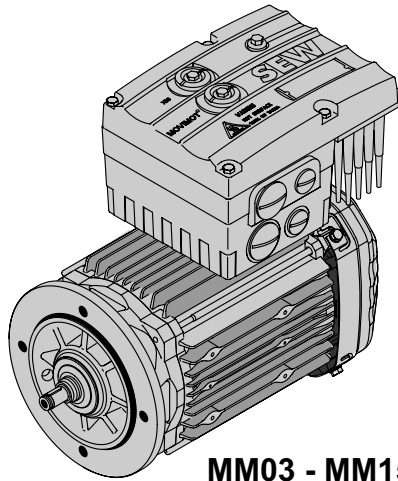
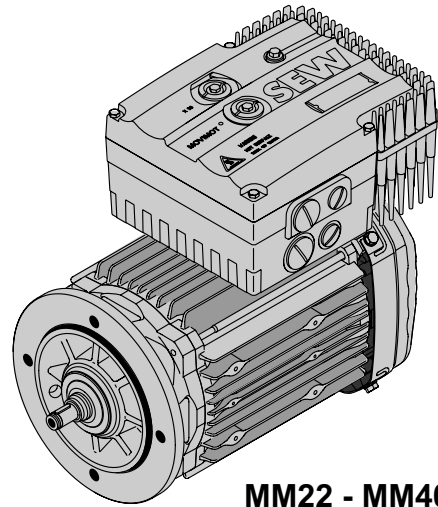
290 – 2900 rpm \triangle 3 x 380 – 500 V (400 V)

IEC or C  US

Type	P _n [kW]	M _n [Nm]	M _a /M _n f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ¹⁾ [kg]	m ²⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRE80M4 /../MM11	1.1	3.62	1.6	2900	2.4	0.99	21.5	23	10	16.4	19.4
DRE90M4 /../MM15	1.5	4.95	1.6	2900	3.5	0.99	35.5	40	20	20.5	25.1
DRE90L4 /../MM22	2.2	7.25	1.6	2900	5.0	0.99	43.5	48.5	20	24.7	29.2
DRE100M4 /../MM30	3.0	9.9	1.6	2900	6.7	0.99	56	62	28	29.2	35.2
DRE100LC4 /../MM40	4.0	13.2	1.6	2900	7.3	0.99	90	96	40	34.9	40.9

- 1) mass of motor without brake
- 2) mass of motor with brake

Thermal classification F as standard


14.1.4 MOVIMOT® drives with DRE motors and increased short-term torque

MM03 - MM15

MM22 - MM40

63539axx

 280 – 1400 rpm \sphericalangle 3 x 380 – 500 V (400 V)

 IEC or UL  US

Type	P _n [kW]	M _n [Nm]	M _a /M _n f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ¹⁾ [kg]	m ²⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRE80M4 /.../MM11	0.75	5.1	2.1	1400	1.9	0.99	21.5	23	10	16.4	19.4
DRE90M4 /.../MM15	1.1	7.5	2.1	1400	2.4	0.99	35.5	40	20	20.5	25.1
DRE90L4 /.../MM22	1.5	10.2	2.1	1400	3.5	0.99	43.5	48.5	20	24.7	29.2
DRE100M4 /.../MM30	2.2	15.0	2.1	1400	5.0	0.99	56	62	28	29.2	35.2
DRE100LC4 /.../MM40	3.0	20.5	2.1	1400	6.7	0.99	90	96	40	34.9	40.9

 290 – 2900 rpm \triangle 3 x 380 – 500 V (400 V)

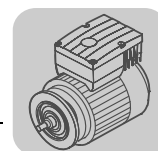
 IEC or UL  US

Type	P _n [kW]	M _n [Nm]	M _a /M _n f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ¹⁾ [kg]	m ²⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRE80M4 /.../MM15	1.1	3.62	2.2	2900	2.4	0.99	21.5	23	10	16.4	19.4
DRE90M4 /.../MM22	1.5	4.95	2.2	2900	3.5	0.99	35.5	40	20	21.6	26.2
DRE90L4 /.../MM30	2.2	7.25	2.2	2900	5.0	0.99	43.5	48.5	20	24.7	29.2
DRE100M4 /.../MM40	3.0	9.9	2.2	2900	6.7	0.99	56	62	28	29.9	35.9

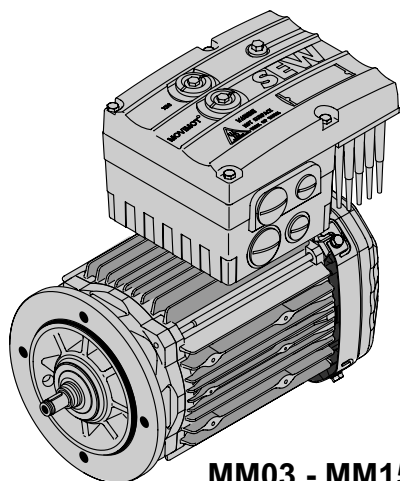
1) mass of motor without brake

2) mass of motor with brake

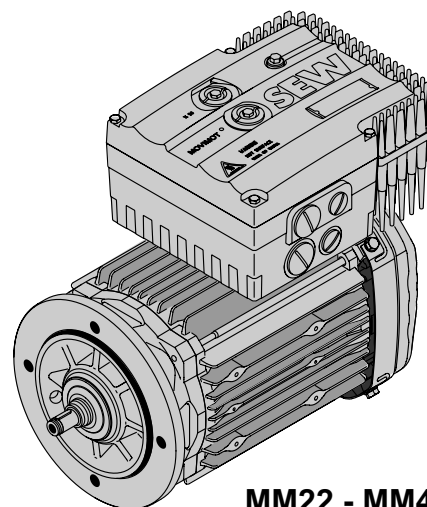
Thermal classification F as standard



14.1.5 MOVIMOT® drives with DRP motors




MM03 - MM15



MM22 - MM40


63539axx

280 – 1400 rpm \triangle 3 x 380 – 500 V (400 V)

IEC or C  US

Type	P _n [kW]	M _n [Nm]	M _a /M _n f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ¹⁾ [kg]	m ²⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRP90M4 /../MM07	0.75	5.1	1.5	1400	1.9	0.99	35.5	37	10	20.5	24.6
DRP90L4 /../MM11	1.1	7.5	1.5	1400	2.4	0.99	43.5	48.5	20	23.6	28.1
DRP100M4 /../MM15	1.5	10.2	1.5	1400	3.5	0.99	56	61	20	28.1	32.6
DRP100L4 /../MM22	2.2	15.0	1.5	1400	5.0	0.99	68	74	40	32.2	38.2
DRP112M4 /../MM30	3.0	20.5	1.5	1400	6.7	0.99	146	151	40	45.2	54.2
DRP132M4 /../MM40	4.0	27.3	1.5	1400	7.3	0.99	255	265	80	62.9	76.9

290 – 2900 rpm \triangle 3 x 380 – 500 V (400 V)

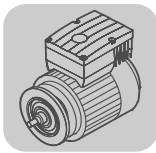
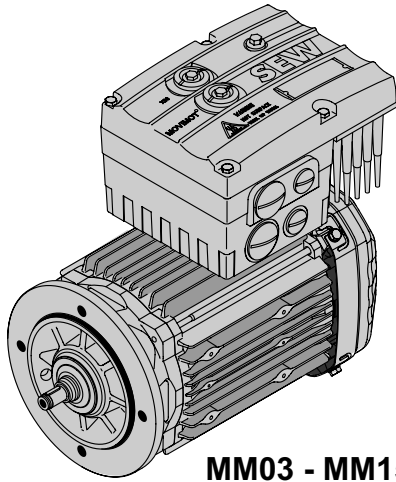
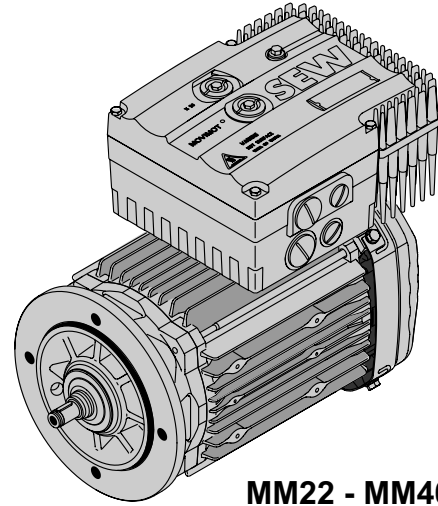
IEC or C  US

Type	P _n [kW]	M _n [Nm]	M _a /M _n f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ¹⁾ [kg]	m ²⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRP90M4 /../MM11	1.1	3.62	1.6	2900	2.4	0.99	35.5	37	10	20.5	24.6
DRP90L4 /../MM15	1.5	4.95	1.6	2900	3.5	0.99	43.5	48.5	20	23.6	28.1
DRP100M4 /../MM22	2.2	7.25	1.6	2900	5.0	0.99	56	61	20	29.2	33.7
DRP100L4 /../MM30	3.0	9.9	1.6	2900	6.7	0.99	68	74	40	32.2	38.2
DRP112M4 /../MM40	4.0	13.2	1.6	2900	7.3	0.99	146	151	40	45.9	54.9

1) mass of motor without brake

2) mass of motor with brake

Thermal classification F as standard


14.1.6 MOVIMOT® drives with DRP motors and increased short-term torque

MM03 - MM15

MM22 - MM40

63539axx

 280 – 1400 rpm \curvearrowright 3 x 380 – 500 V (400 V)

 IEC or UL US

Type	P _n [kW]	M _n [Nm]	M _a /M _n f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ¹⁾ [kg]	m ²⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRP90M4 /../MM11	0.75	5.1	2.1	1400	1.9	0.99	35.5	37	10	20.5	24.6
DRP90L4 /../MM15	1.1	7.5	2.1	1400	2.4	0.99	43.5	48.5	20	23.6	28.1
DRP100M4 /../MM22	1.5	10.2	2.1	1400	3.5	0.99	56	61	20	29.2	33.7
DRP100L4 /../MM30	2.2	15.0	2.1	1400	5.0	0.99	68	74	40	32.2	38.2
DRP112M4 /../MM40	3.0	20.5	2.1	1400	6.7	0.99	146	151	40	45.9	54.9

 290 – 2900 rpm \triangle 3 x 380 – 500 V (400 V)

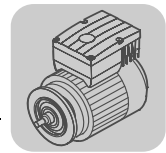
 IEC or UL US

Type	P _n [kW]	M _n [Nm]	M _a /M _n f > 5 Hz	n _n [rpm]	I _{n1} [A]	cos φ	J _{mot}		M _{Bmax} [Nm]	m ¹⁾ [kg]	m ²⁾ [kg]
							[10 ⁻⁴ kgm ²] without brake	[10 ⁻⁴ kgm ²] with brake			
DRP90M4 /../MM15	1.1	3.62	2.2	2900	2.4	0.99	35.5	37	10	20.5	24.6
DRP90L4 /../MM22	1.5	4.95	2.2	2900	3.5	0.99	43.5	48.5	20	24.7	29.2
DRP100M4 /../MM30	2.2	7.25	2.2	2900	5.0	0.99	56	61	20	29.2	33.7
DRP100L4 /../MM40	3.0	9.90	2.2	2900	6.7	0.99	68	74	40	32.9	38.9

1) mass of motor without brake

2) mass of motor with brake

Thermal classification F as standard



14.2 Connection technology MOVIMOT® standard design

Overview

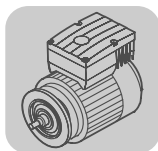
MOVIMOT® D-503-00 is supplied without plug connector if not specified otherwise in the order. The plug connectors listed in the following table are available as standard. For other types, please contact SEW-EURODRIVE.

Order designation	Function	Terminal box design	Manufacturer designation
MM../AVT1	RS-485	Standard	Round plug connector M12 x 1
MM../ASA3	Power	Modular	Harting HAN® 10 ES pin element (built-on housing with two clips)
MM../ASA3/AVT1	Power/RS-485	Modular	Harting HAN® 10 ES pin element (built-on housing with two clips) + Round plug connector M12 x 1
MM../AMA6	Power/RS-485	Modular	Harting HAN Modular® pin element (built-on housing with 2 clip)
MM../AMD6	Power/RS-485	Modular	Harting HAN Modular® pin element (built-on housing with 1 clip)
MM../APG6	Power/RS-485	Modular	Phoenix Contact PLUSCON-VC (3 inserts)

Terminal box design:

The modular terminal box offers the following functions compared to the standard terminal box:

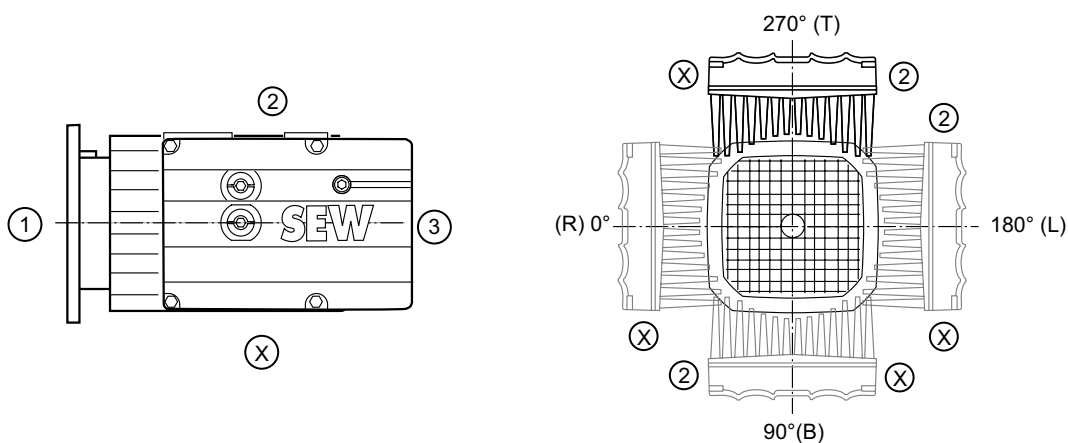
- The position of the cable entries/plug connectors can later be turned to the opposite side (see "MOVIMOT® operating instructions").
- Integration of options (see sec. "Options")



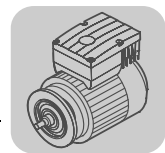
Possible plug connector positions

The following positions are possible for plug connectors:

Plug connectors	Possible positions
AVT1	X (standard)
	2
ASA3	X (standard)
	2
ASA3/AVT1	ASA3 = X (standard) + AVT1 = X (standard)
	ASA3 = 2 + AVT1 = 2
AMA6 AMD6	X (standard)
	2
APG6 (not available for all motor/gear unit combinations)	X (standard)
	2

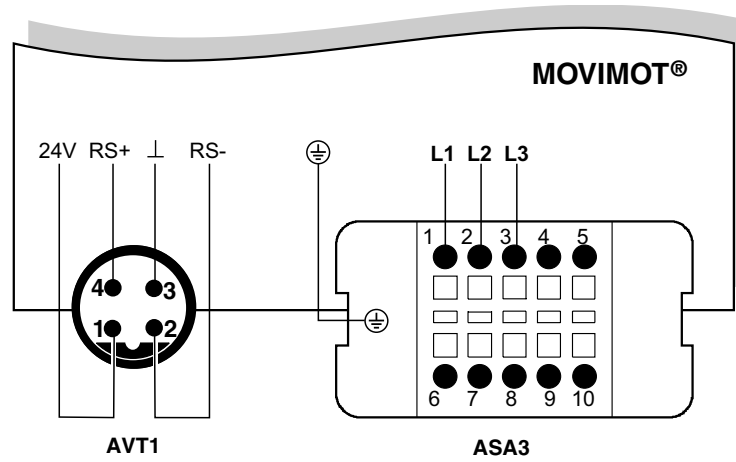


63369axx



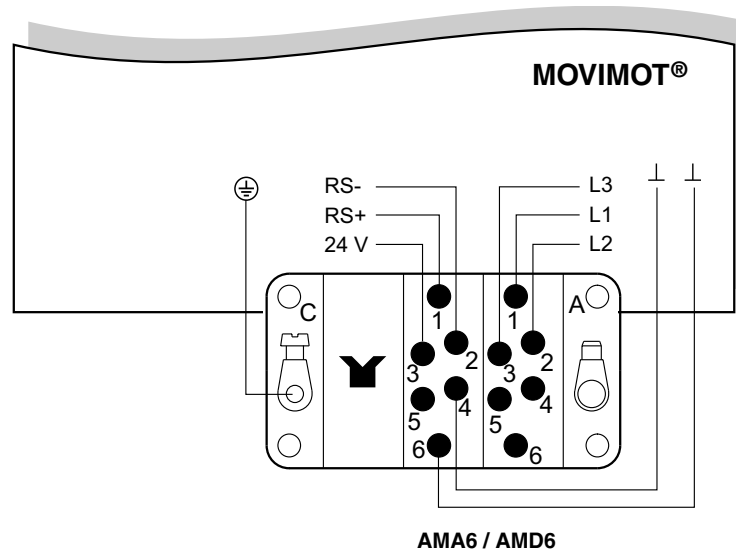
Pin assignment

Pin assignment for AVT1, ASA3:



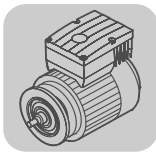
52113AXX

Pin assignment for AMA6, AMD6:

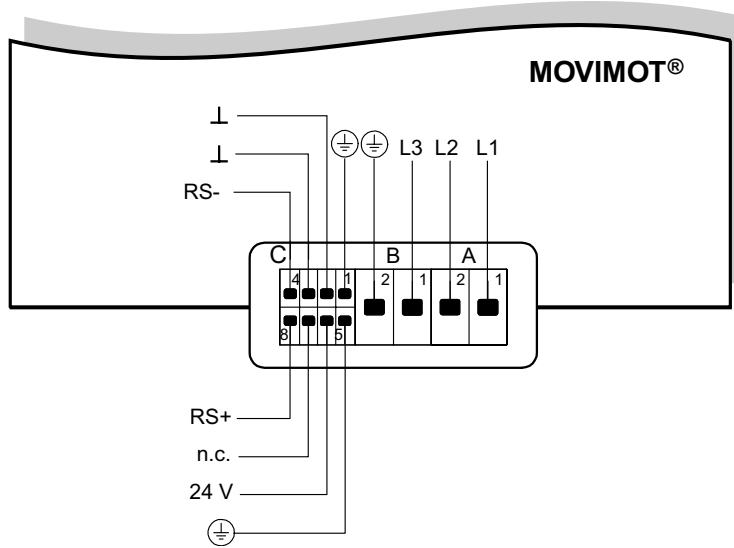


AMA6 / AMD6

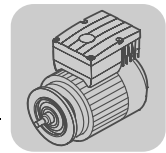
52459AXX



APG6 plug connector:



60652AXX



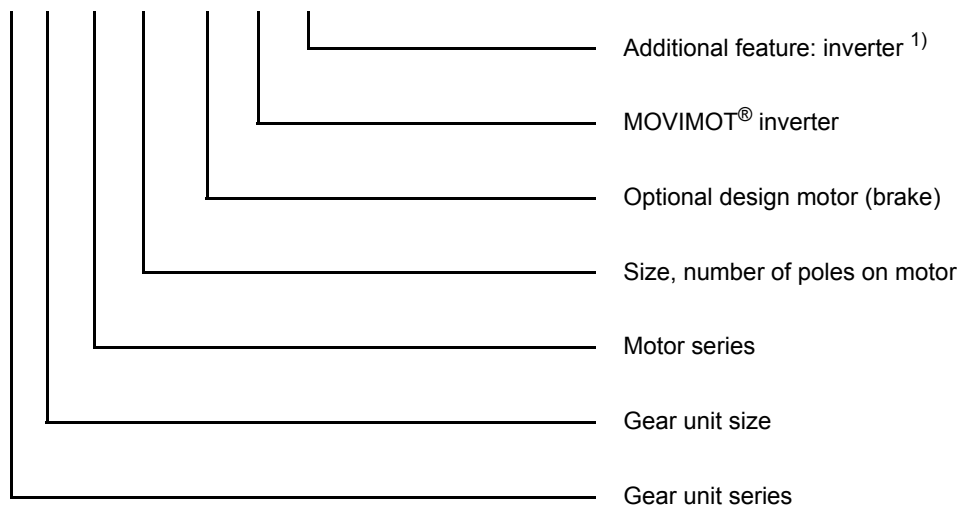
14.3 Sample order MOVIMOT® standard design

The unit designation of the MOVIMOT® gearmotor starts from the component on the output end.

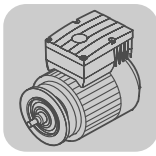
SEW EURODRIVE			
76646 Bruchsal / Germany			
RF47DRE90L4BE2/MM15/MO			
01.300123457.0002.06		°C -20...40	
Hz 50	kW 1,5	r/min 1400 / 86	cos φ 0,99
<input type="radio"/> 50 Hz	<input type="radio"/> 60 Hz	V 380-500	<input type="radio"/>
i 16,22	N	IP 55	<input type="radio"/>
IM M1	Iso.Kl. 155 (F)	3~ IEC60034	
V _{BR} 220..240	Nm 13	BEM	kg 31 1883410
CLP CC VGB220 0,65l		Made in Germany	

63297axx

RF 47 DRE 90L4 BE/MM15/MO



1) The nameplate only displays options installed at the factory.

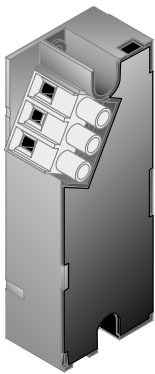


14.4 Options

14.4.1 Options integrated into terminal box

- The options BEM, BES, URM, MLU13A and MNF11A are integrated in the MOVIMOT® terminal box.
- The MLU13A and MNF11A options can only be ordered in combination with the modular terminal box.
- The modular terminal box is assigned depending on the ordered option and the MOVIMOT® size.

BEM brake control

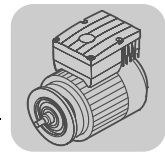


Functional description:

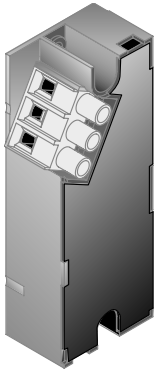
- The BEM brake rectifier can be used in conjunction with the MOVIMOT® MM..D for controlling the brake (see also the MOVIMOT® operating instructions). The brake is controlled by means of parameter setting or activating additional function 7 or 9.
- The BEM brake controller realizes fast release and application of the mechanical brake.
- The option is integrated in the MOVIMOT® terminal box.
- **Important: The brake coil must correspond to the connection voltage.**

Technical data:

Option	BEM
Part number	829 611 1
Function	Brake rectifier
Rated supply voltage	AC 230 V...AC 500 V, +10% / -15% 50...60 Hz ± 5% Black connection wires
Control voltage	DC 0...5 V Red/blue connecting wires, pluggable
Braking current	max. DC 0.8 A Brake connection 13, 14, 15
Degree of protection	IP20
Ambient temperature	-25...+60 °C
Storage temperature	-25...+80 °C



BES brake control



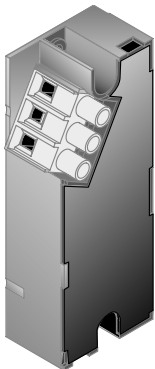
Functional description:

- The BES brake rectifier can be used in conjunction with MOVIMOT® MM..D for controlling a DC 24 V brake (not standard). See also MOVIMOT® operating instructions. The brake is controlled by means of parameter setting or activating additional function 7 or 9.
- The BES brake controller realizes fast release and application of the mechanical brake.
- The option is integrated in the MOVIMOT® terminal box.
- **Important: The brake coil must be designed as DC 24 V coil.**

Technical data:

Option	BES
Part number	0 829 8475
Function	Brake control
Rated supply voltage	DC 24 V, +10% / -15% (red/black connecting wires)
Control voltage	DC 0...5 V Red/blue connecting wires, pluggable
Braking current	max. DC 3.0 A Brake connection 13, 14, 15
Degree of protection	IP20
Ambient temperature	-25...+60 °C
Storage temperature	-25...+80 °C

URM voltage relay

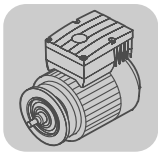


Functional description:

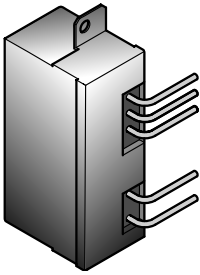
- The UMR voltage relay implements rapid application of the mechanical brake.
- The option is integrated in the MOVIMOT® terminal box.
- **Important: The brake coil must correspond to the MOVIMOT® standard (AC 120 V or 230 V).**

Technical data:

Option	URM
Part number	0 827 601 3
Function	Voltage relay
Rated voltage U_N	DC 36...167 V (Brake coil AC 88..0.400 V)
Braking current I_N	0.75 A
Degree of protection	IP20
Ambient temperature	-25...+60 °C
Storage temperature	-25...+85 °C
Disconnection time t_{off}	approx. 40 ms (cut-off in the DC circuit)



Internal DC 24 V voltage MLU13A



Functional description:

The MLU13A option is integrated in the terminal box of MOVIMOT® and allows for operating a MOVIMOT® unit including one option with a maximum current consumption of 70 mA (MBG11A, MWA21A) without external 24 V auxiliary voltage. The option is installed in the modular terminal box on delivery.

Technical data:

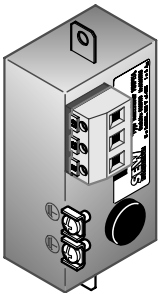
Option	MLU13A
Part number	1 820 596 8
Function	24 V voltage supply
Input voltage	AC 380 V... 500 V \pm 10 % (50/60 Hz)
Output voltage	DC 24 V \pm 25 %
Output power	max. 8 W
Degree of protection	IP20
Ambient temperature	-25...+85 °C
Storage temperature	-25...+85 °C



NOTE

Note that the height of the terminal box is higher for MOVIMOT® MM03 to MM15 by 17 mm.

Internal line filter MNF11A



Functional description:

The MNF11A option is integrated in the terminal box of MOVIMOT® (MM03 - MM15) and allows for a drive system that complies with category C1 according to EN 61800-3 with respect to interference emission. The option requires the modular terminal box with increased dimensions.

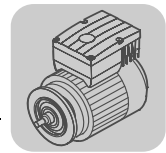
Technical data:

Option	MNF11A (for MM03D-503-00...MM15D-503-00 or MM03D-233-00...MM07D-233-00)
Part number	0 828 316 8
Function	3-phase line filter (allows for category C1 to EN 61800-3)
Input voltage	3 x 380 V \pm 10 % / 50...60 Hz
Input current	4 A
Degree of protection	IP00
Ambient temperature	-25...+60 °C
Storage temperature	-25...+85 °C



NOTE

Note that the height of the terminal box is higher for MOVIMOT® MM03 to MM15 by 17 mm.



14.4.2 DC 24 V supply MLU.1A

Functional description

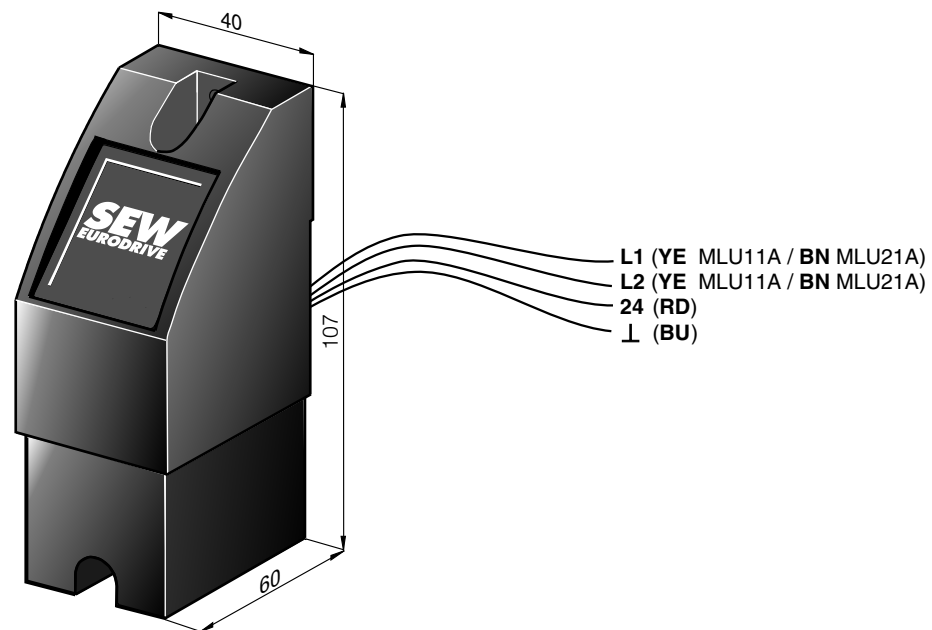
The MLU.1A option is mounted in a cable gland of the MOVIMOT® and offers the opportunity to operate one MOVIMOT® including **one** option with a current consumption of max. 70 mA (MBG11A, MWA21A) without external 24 V auxiliary power supply.

Technical data

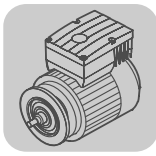
Option	MLU11A	MLU21A
Part number	0 823 383 7	0 823 387 X
Function	24 V voltage supply	
Input voltage	AC 380...500 V ± 10 % (50/60 Hz)	AC 200..0.240 V ± 10 % (50/60 Hz)
Output voltage	DC 24 V ± 25 %	
Output power	Max. 6 W	
Degree of protection	IP 65	
Ambient temperature	-25...+60 °C	
Storage temperature	-25...+85 °C	

Dimensions and connection assignment

The following figure shows the dimensions and the connection assignments of the MLU.1A option:



03194bxx



14.4.3 Speed control module with DC 24 V supply MLG.1A

Functional description

The MLG.1A option is mounted in a cable gland of MOVIMOT® and offers the possibility of adjusting the input speed in the range of $-100\% \dots +100\% f_{\max}$ (potentiometer f1) as well as of powering the inverter with the DC 24 V auxiliary voltage.

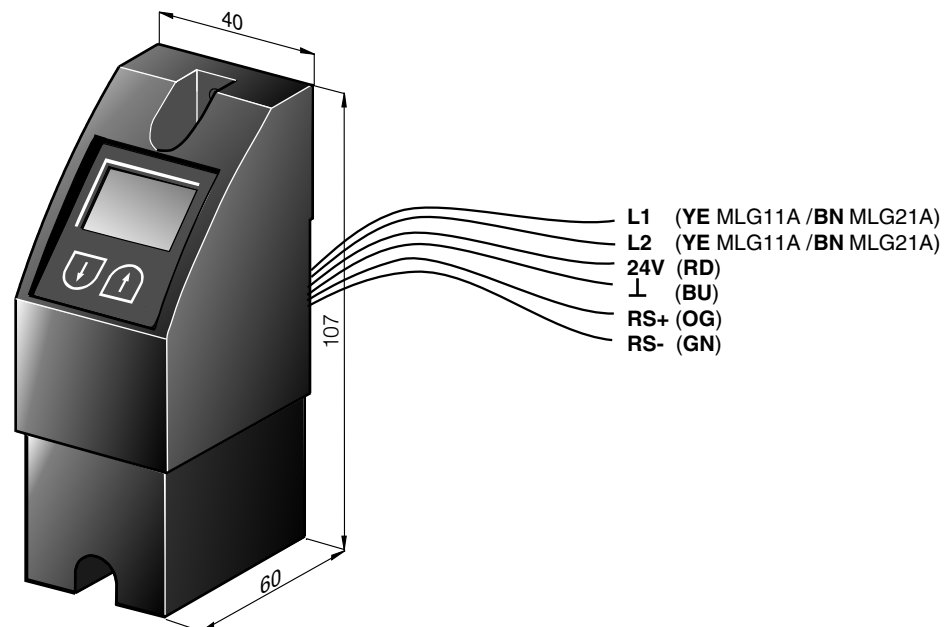
Technical data

Option	MLG11A	MLG21A
Part number	0 823 384 5	0 823 388 8
Function	Setpoint generator and 24 V voltage supply	
Input voltage	AC 380...500 V $\pm 10\%$ (50/60 Hz)	AC 200..0.240 V $\pm 10\%$ (50/60 Hz)
Output voltage	DC 24 V $\pm 25\%$	
Output power	Max. 6 W	
Setpoint resolution	1 %	
Serial interface ¹⁾	RS-485 for connecting a MOVIMOT® inverter	
Degree of protection	IP65	
Ambient temperature	-15...+60 °C	
Storage temperature	-25...+85 °C	

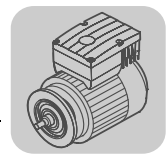
1) with integrated dynamic terminating resistor

Dimensions and connection assignment

The following figure shows the dimensions and the connection assignments of the MLG.1A option:



03195bxx



14.4.4 MBG11A speed control module

Description of functions

- The MBG11A setpoint control module has 2 keys and a display. They make it possible to adjust the speed remotely in the range from -100 %... +100 % f_{max} (potentiometer f1).
- Up to 31 MOVIMOT® units can be controlled at the same time (broadcasting).

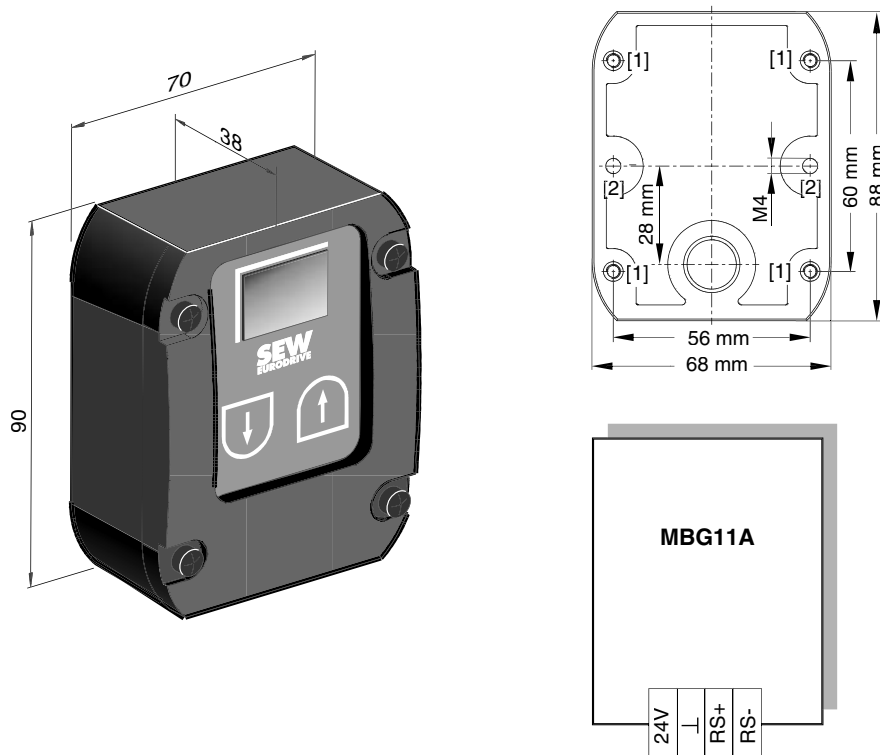
Technical data

Option	MBG11A
Part number	0 822 547 8
Function	Keypad
Input voltage	DC 24 V ± 25 %
Current consumption	approx. 70 mA
Setpoint resolution	1 %
Serial interface ¹⁾	RS-485 for connecting max. 31 MOVIMOT® inverters (max. 200 m, 9600 Baud)
Degree of protection	IP65
Ambient temperature	-15...+60 °C
Storage temperature	-25...+85 °C

1) with integrated dynamic terminating resistor

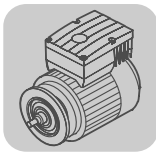
Dimensions and connection assignment

The following figure shows the dimensions and the connection assignments of the MGB11A option:



[1] Tapped hole on the rear
[2] Retaining holes for M4 screws

52528axx



14.4.5 MWA21A setpoint converter

Description of functions

- The MWA21A setpoint converter converts an analog setpoint and control signals into an RS-485 protocol.
- This conversion allows for remote control of the MOVIMOT® from the control cabinet.
- Up to 31 MOVIMOT® units can be controlled at the same time (broadcasting).

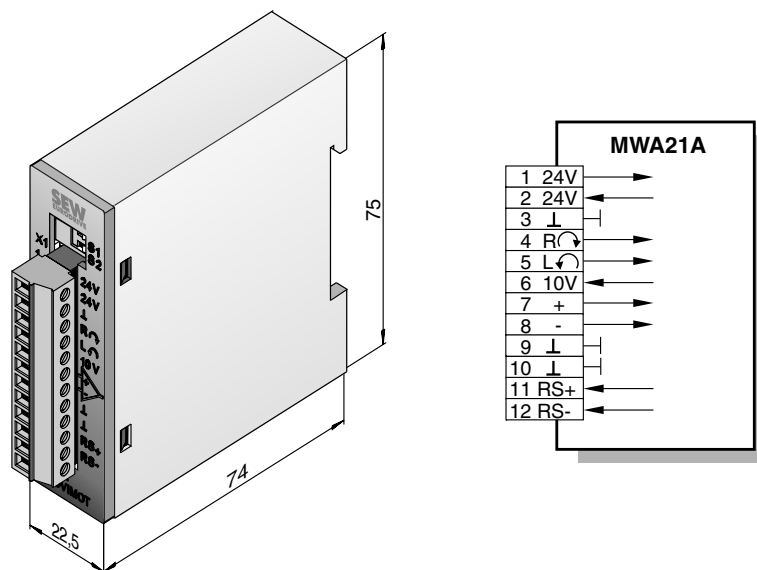
Technical data

Option	MWA21A
Part number	0 823 006 4
Function	Speed control module
Input voltage	DC 24 V ± 25 %
Current consumption	approx. 70 mA
Setpoint resolution	1 %
Serial interface ¹⁾	RS-485 for connecting max. 31 MOVIMOT® inverters max. 200 m, max. 9600 baud Unidirectional communication Cycle time: 100 ms
Analog input	0...10 V / 2...10 V, $R_i \approx 12 \text{ k}\Omega$ 0...20 mA / 4...20 mA, $R_i \approx 22 \Omega$
Setpoint resolution of the analog input	8 bits (± 1 bit)
Signal level binary inputs	+13 V ...+30 V = "1" - 3 V ...+5 V = "0"
Degree of protection	IP20
Ambient temperature	-15...+60 °C
Storage temperature	-25...+85 °C

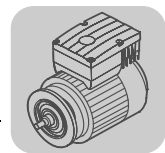
1) with integrated dynamic terminating resistor

Dimensions and connection assignment

The following figure shows the dimensions and the connection assignments of the MWA21A option:



03197axx



14.4.6 DBG keypad (in preparation)


Functional description

You can use the DBG keypad for parameterization and manual operation of MOVIMOT® MM..D drives. In addition to that, the keypad displays important information about the state of the MOVIMOT® drive.

Features

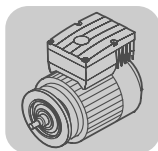
- Illuminated plain text display, up to 7 languages can be set
- Keypad with 21 keys
- Can be connected via extension cable DKG60B (5 m [16.4 ft])

Overview

Keypad	Language	Part number	
 <p>56555AXX</p>	DBG60B-01 DE/EN/FR/IT/ES/PT/NL (German / English / French / Italian / Spanish / Portuguese / Dutch)	1820 403 1	
	DBG60B-02 DE / EN / FR / FI / SV / DA / TR (German / English / French / Finnish / Swedish / Danish / Turkish)	1820 405 8	
	DBG60B-03 DE/EN/FR/RU/PL/CS (German / English / French / Russian / Polish / Czech)	1820 406 6	
	DBG60B-04 DE / EN / FR / ZH (German / English / French / Chinese)	1820 850 9	
	Extension cables	Description (scope of delivery)	Part number
	DKG60B	<ul style="list-style-type: none"> • Length 5 m • 4-core, shielded cable 	0817 583 7

Technical data

Option	DBG60B-01	DBG60B-02	DBG60B-3	DBG60B-4
Function	Keypad			
Connection	RJ-10 plug for connection to the X50 diagnostics interface			
Degree of protection	IP40 (EN 60529)			
Ambient temperature	0...+40 °C			
Storage temperature	-20...+80 °C			



14.4.7 Internal braking resistors

Assignment

MOVIMOT® type	Braking resistor	Part number
MM03D-503-00...MM15D-503-00 MM03D-233-00...MM07D-233-00	BW1	0 822 897 3 ¹⁾
MM22D-503-00...MM40D-503-00 MM11D-233-00...MM22D-233-00	BW2	0 823 136 2 ¹⁾

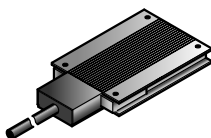
1) Two screws M4 x 8, included in scope of delivery

14.4.8 External braking resistors

Assignment

MOVIMOT® type	Braking resistor	Part number	Guard
MM03D-503-00...MM15D-503-00 MM03D-233-00...MM07D-233-00	BW200-003/K-1.5	0 828 291 9	0 813 152 X
	BW200-005/K-1.5	0 828 283 8	–
	BW150-010	0 802 285 2	–
MM22D-503-00...MM40D-503-00 MM11D-233-00...MM22D-233-00	BW100-003/K-1.5	0 828 293 5	0 813 152 X
	BW100-005/K-1.5	0 828 286 2	–
	BW068-010	0 802 287 9	–
	BW068-020	0 802 286 0	–

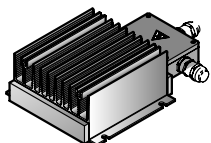
BW100... BW200...



Technical data:

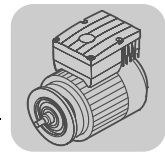
	BW100-003/ K-1.5	BW100-005/ K-1.5	BW200-003/ K-1.5	BW200-005/ K-1.5
Part number	0 828 293 5	0 828 286 2	0 828 291 9	0 828 283 8
Function	Dissipating the regenerative energy			
Degree of protection	IP65			
Resistance	100 Ω	100 Ω	200 Ω	200 Ω
Power in S1, 100 % cdf	100 W	200 W	100 W	200 W
Dimensions W x H x D	146 x 15 x 80 mm	252 x 15 x 80 mm	146 x 15 x 80 mm	252 x 15 x 80 mm
Cable length	1.5 m			

BW150... BW068...



Technical data:

	BW150-010	BW068-010	BW068-020
Part number	0 802 285 2	0 802 287 9	0 802 286 0
Function	Dissipating the regenerative energy		
Degree of protection	IP66		
Resistance	150 W	68 W	68 W
Power according to UL in S1, 100 % cdf	600 W	600 W	1200 W
Power according to CE in S1, 100 % cdf	900 W	900 W	1800 W
Dimensions W x H x D	260 x 75 x 174 mm	260 x 75 x 174 mm	610 x 75 x 174 mm
Maximum permitted cable length	15 m		



14.4.9 Factory installed options

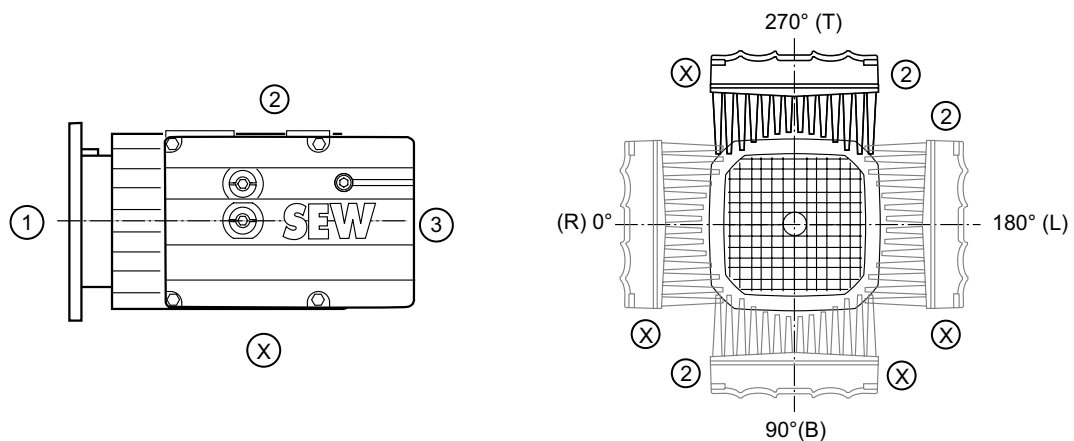
The following options can be installed and supplied if required (mounted and wired ready for operation):

- Local DC 24 V supply (MLU...)
- Local speed control module with DC 24 V supply (MLG.1A)
- PROFIBUS fieldbus interface (MFP../MQP..)
- INTERBUS fieldbus interface (MFI../MQI..)
- DeviceNet fieldbus interface (MFD../MQD..)
- CANopen fieldbus interface (MFO..)
- AS-Interface (MFK..)
- Hybrid cable for connection between MF.../Z.3. or MF../.6. field distributor and MOVIMOT® (KPF6, 1...5 meters)
- MNF11A line filter
- Brake control (BEM or BES) or voltage relay (URM)

Important order information

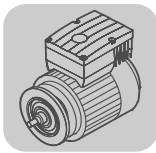
The options can be installed in the following positions:

- Position "2"
- Position "X" (standard)



63369axx

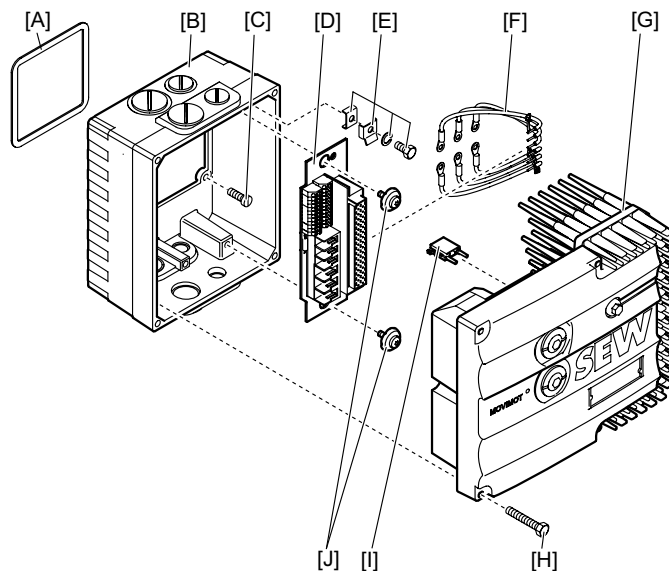
For a sample order, please refer to page 393.



14.5 MOVIMOT® retrofit sets

14.5.1 Scope of delivery of retrofit set

The following figure shows the scope of delivery of the MOVIMOT® MM03D...MM40D retrofit set.



63246axx

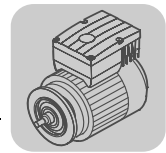
[A]	Terminal box gasket	[E]	PE screw	[I]	Drive-ID module
[B]	Terminal box	[F]	Connection cable	[J]	2 screws
[C]	4 screws	[G]	Cover with inverter		
[D]	Connection board	[H]	4 screws		

Parts [B] and [D] to [J] are already installed in the delivery of the retrofit set.



STOP









- Only (brake) motors are allowed to be retrofitted with:
 - Rated motor voltage AC 230/400 V, 50 Hz
 - Rated brake voltage AC 230 V for MM03...MM15
AC 120 V for MM22...MM40
- No retrofit sets are available for UL units.
- MOVIMOT® retrofit sets are configured to order. This is the reason why retrofit sets do not have a part number.



14.5.2 Retrofit sets for DRS motors








1400 rpm



Power [kW]	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
0.37	DRS71S4	MM03D,  , DRS	DRS71S4/.../MM03D
0.55	DRS71M4	MM05D,  , DRS	DRS71M4/.../MM05D
0.75	DRS80S4	MM07D,  , DRS	DRS80S4/.../MM07D
1.1	DRS80M4	MM11D,  , DRS	DRS80M4/.../MM11D
1.5	DRS90M4	MM15D,  , DRS	DRS90M4/.../MM15D
2.2	DRS90L4	MM22D,  , DRS	DRS90L4/.../MM22D
3.0	DRS100M4	MM30D,  , DRS	DRS100M4/.../MM30D
4.0	DRS100LC4	MM40D,  , DRS	DRS100LC4/.../MM40D

2900 rpm









Power [kW]	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
0.55	DRS71S4	MM05D,  , DRS	DRS71S4/.../MM05D
0.75	DRS71M4	MM07D,  , DRS	DRS71M4/.../MM07D
1.1	DRS80S4	MM11D,  , DRS	DRS80S4/.../MM11D
1.5	DRS80M4	MM15D,  , DRS	DRS80M4/.../MM15D
2.2	DRS90M4	MM22D,  , DRS	DRS90M4/.../MM22D
3.0	DRS90L4	MM30D,  , DRS	DRS90L4/.../MM30D
4.0	DRS100M4	MM40D,  , DRS	DRS100M4/.../MM40D

14.5.3 Retrofit sets for DRE motors






1400 rpm

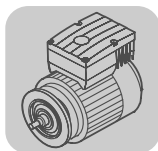


Power [kW]	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
0.75	DRE80M4	MM07D,  , DRE	DRE80M4/.../MM07D
1.1	DRE90M4	MM11D,  , DRE	DRE90M4/.../MM11D
1.5	DRE90L4	MM15D,  , DRE	DRE90L4/.../MM15D
2.2	DRE100M4	MM22D,  , DRE	DRE100M4/.../MM22D
3.0	DRE100LC4	MM30D,  , DRE	DRE100LC4/.../MM30D
4.0	DRE132S4	MM40D,  , DRE	DRE132S4/.../MM40D

2900 rpm









Power [kW]	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
1.1	DRE80M4	MM11D,  , DRE	DRE80M4/.../MM11D
1.5	DRE90M4	MM15D,  , DRE	DRE90M4/.../MM15D
2.2	DRE90L4	MM22D,  , DRE	DRE90L4/.../MM22D
3.0	DRE100M4	MM30D,  , DRE	DRE100M4/.../MM30D
4.0	DRE100LC4	MM40D,  , DRE	DRE100LC4/.../MM40D



14.5.4 Retrofit sets for DRP motors






1400 rpm



Power [kW]	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
0.75	DRP90M4	MM07D,  , DRP	DRP90M4/.../MM07D
1.1	DRP90L4	MM11D,  , DRP	DRP90L4/.../MM11D
1.5	DRP100M4	MM15D,  , DRP	DRP100M4/.../MM15D
2.2	DRP100L4	MM22D,  , DRP	DRP100L4/.../MM22D
3.0	DRP112M4	MM30D,  , DRP	DRP112M4/.../MM30D
4.0	DRP132M4	MM40D,  , DRP	DRP132M4/.../MM40D

2900 rpm



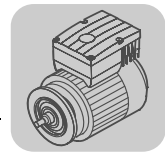
Power [kW]	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
1.1	DRP90M4	MM11D,  , DRP	DRP90M4/.../MM11D
1.5	DRP90L4	MM15D,  , DRP	DRP90L4/.../MM15D
2.2	DRP100M4	MM22D,  , DRP	DRP100M4/.../MM22D
3.0	DRP100L4	MM30D,  , DRP	DRP100L4/.../MM30D
4.0	DRP112M4	MM40D,  , DRP	DRP112M4/.../MM40D

14.5.5 Braking resistor for motors without brake

For motors without mechanical brake, we recommend to connect an integrated braking resistor BW... . The braking resistor is not included in the scope of delivery of the retrofit set and must be ordered separately:

MOVIMOT® type	Braking resistor	Part number
MM03D-503-00...MM15D-503-00 MM03D-233-00...MM07D-233-00	BW1	0 822 897 3 ¹⁾
MM22D-503-00...MM40D-503-00 MM11D-233-00...MM22D-233-00	BW2	0 823 136 2 ¹⁾

1) Two screws M4 x 8, included in scope of delivery

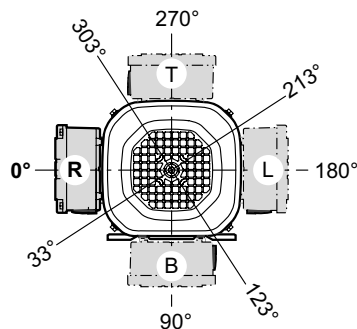


14.6 Dimension sheets

Dimension sheet information

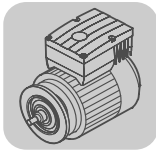
Please observe the following notes regarding the dimension sheets for MOVIMOT® AC motors (DR):

- Foot-mounted motors are available with terminal box position 270° only.
- A fan guard represented by a dotted line shows the design with brake.
- Different positions are possible for the manual brake release. The four positions 33°, 123°, 213° or 303° are basically possible.



61011axx

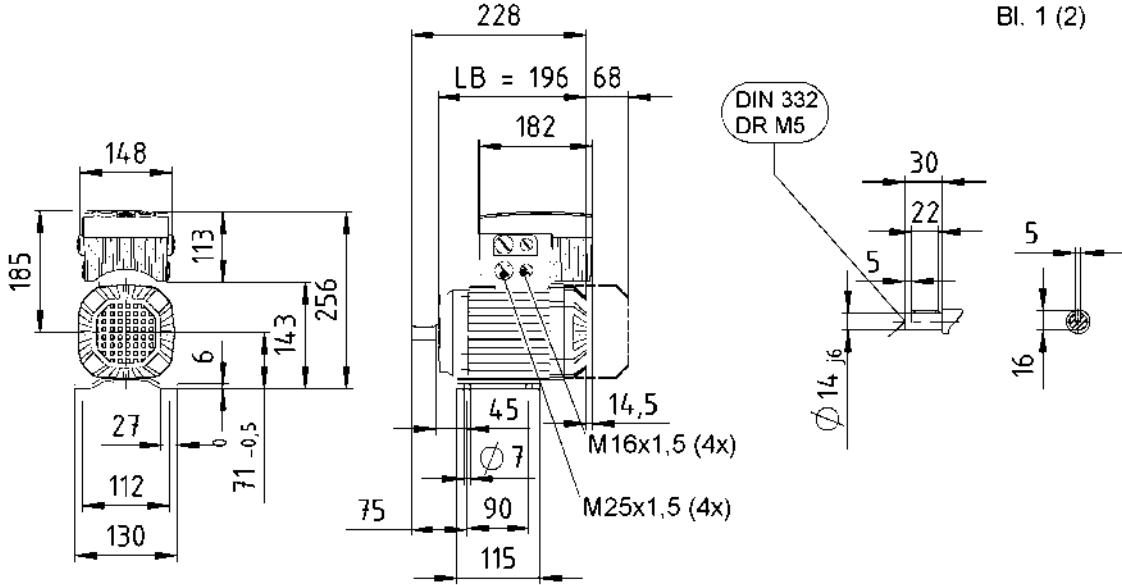
- The manual brake release is located at an angle of 303° to the terminal box as standard. The manual brake release can be turned by $4 \times 90^\circ$. The forced cooling fan option (V) limits the possible positions of the manual brake release.
- For brake motors do not forget to add the space required for removing the fan guard (= fan guard diameter).
- Leave a clearance of at least half the fan guard diameter to provide unhindered air access.
- The motor dimensions may change when installing motor options. Refer to the dimension drawings of the motor options.



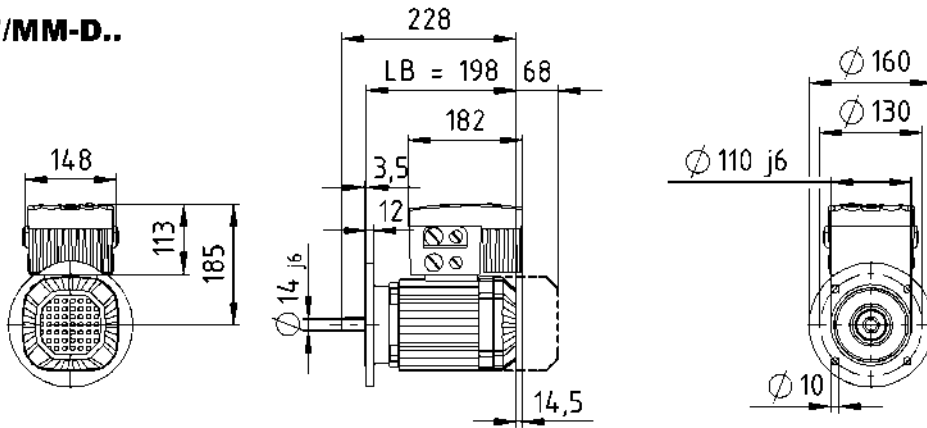
DRS71S/F/MM-D..

80 152 00 07

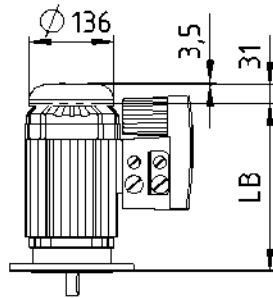
Bl. 1 (2)



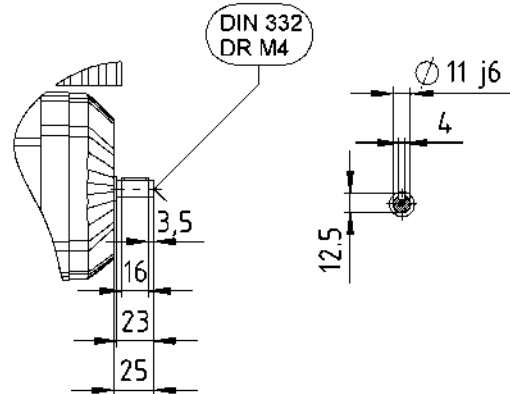
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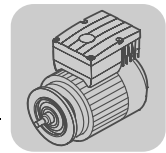


/C/MM-D..

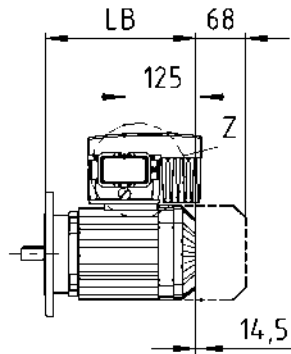
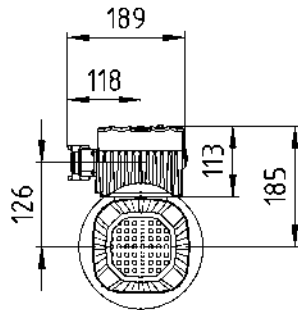


/2W/MM-D..



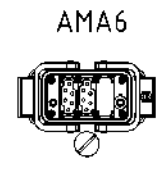
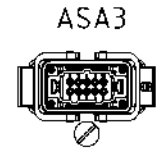


DRS71S/MM-D..



Z

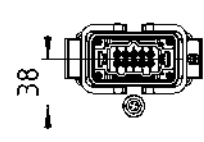
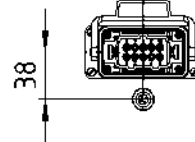
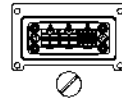
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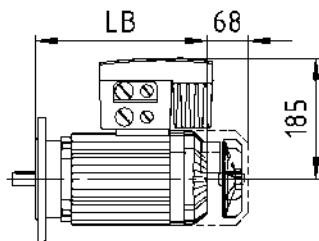
ASD3+AVT1
ASD3+AVR1

ASA3+AVT1
ASA3+AVR1

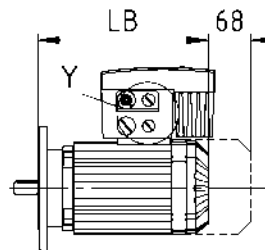
APG6



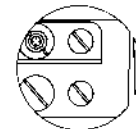
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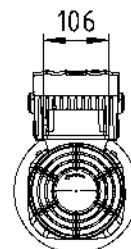
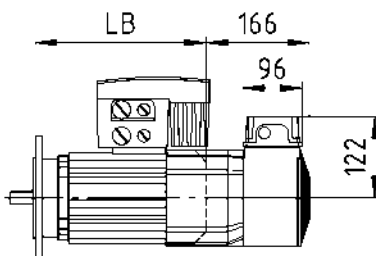
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/AVR1**

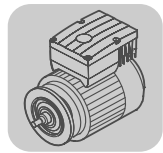


Y

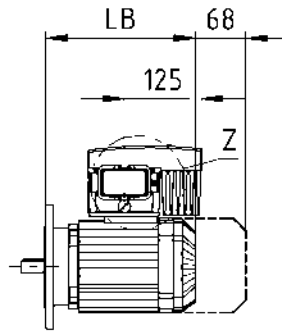
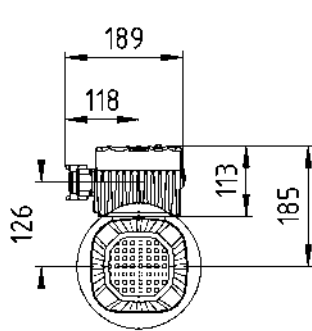


/V/MM-D..





DRS71M/MM-D..

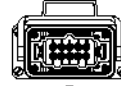


Z

80 151 00 07
Bl. 2 (2)

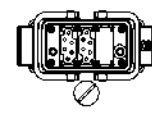
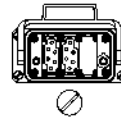
ASD3

ASA3



AMD6

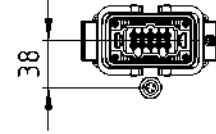
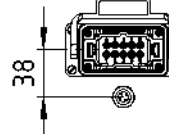
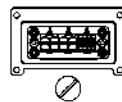
AMA6



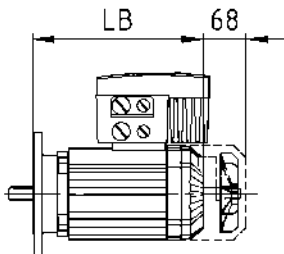
APG6

ASD3+AVT1
ASD3+AVR1

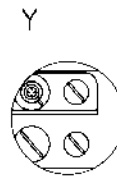
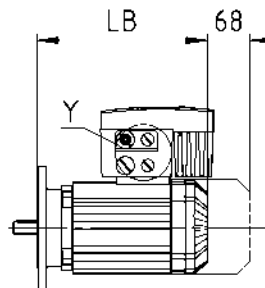
ASA3+AVT1
AS3+AVR1



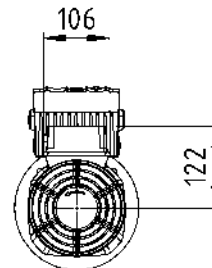
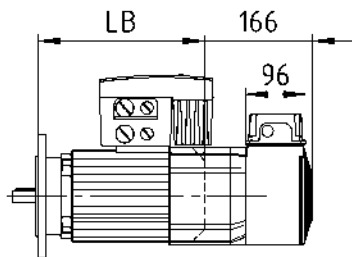
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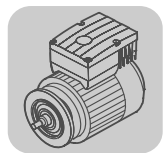


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/AVR1**

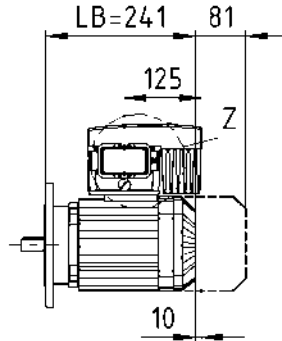
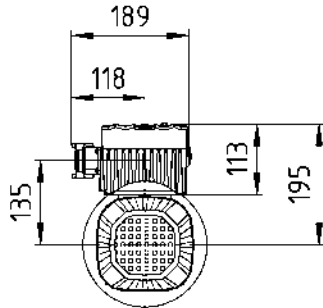


/V/MM-D..





DRS80S/MM-D..



Z

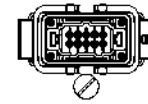
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Bl. 2 (2)

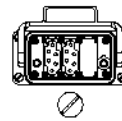
ASD3



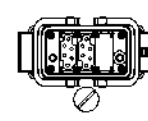
ASA3



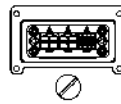
AMD6



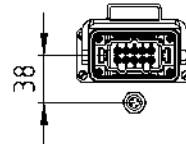
AMA6



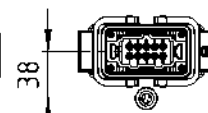
APG6



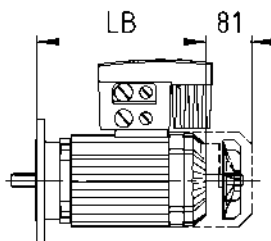
ASD3+AVT1
ASD3+AVR1



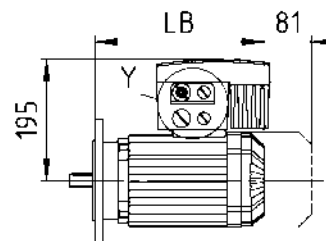
ASA3+AVT1
ASA3+AVR1



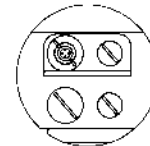
/EI7./MM-D..



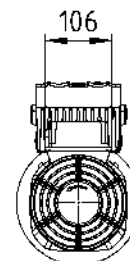
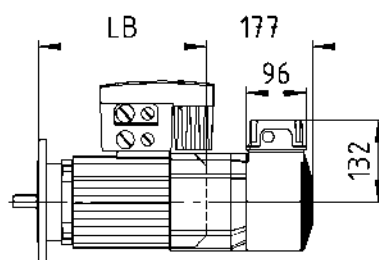
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/AVR1**

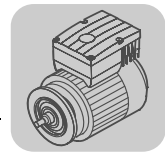


Y

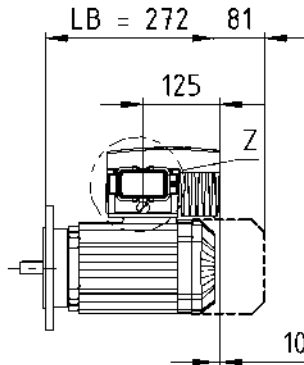
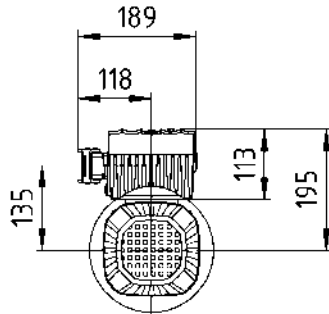


/V/MM-D..



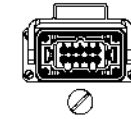


DRS80M/MM-D..

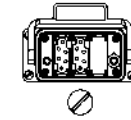


80 154 00 07
Bl. 2 (2)

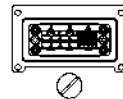
ASD3



AMD6

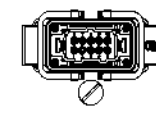


APG6

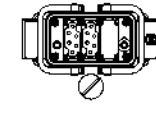


Z

ASA3



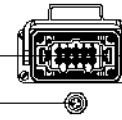
AMA6



ASD3+AVT1
ASD3+AVR1

ASA3+AVT1
AS3+AVR1

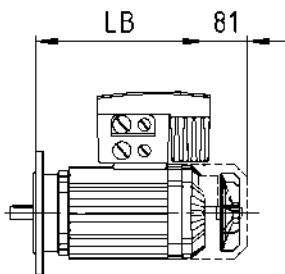
38



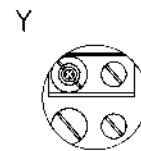
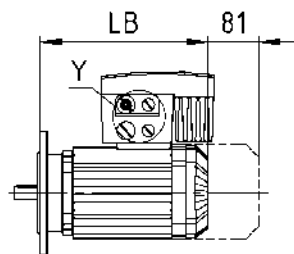
38



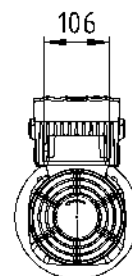
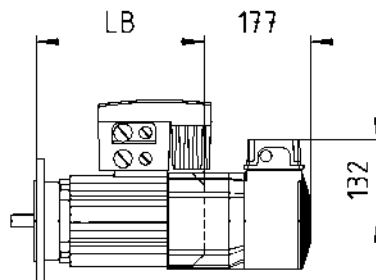
/EI7./MM-D..

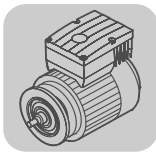


**/MM-D../AVT1
/AVR**



/V/MM-D..

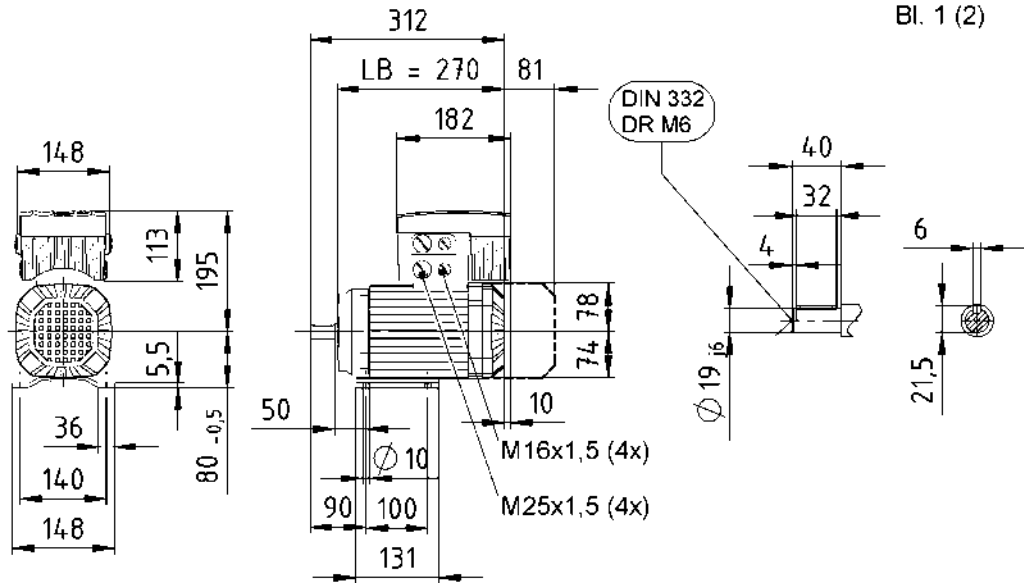




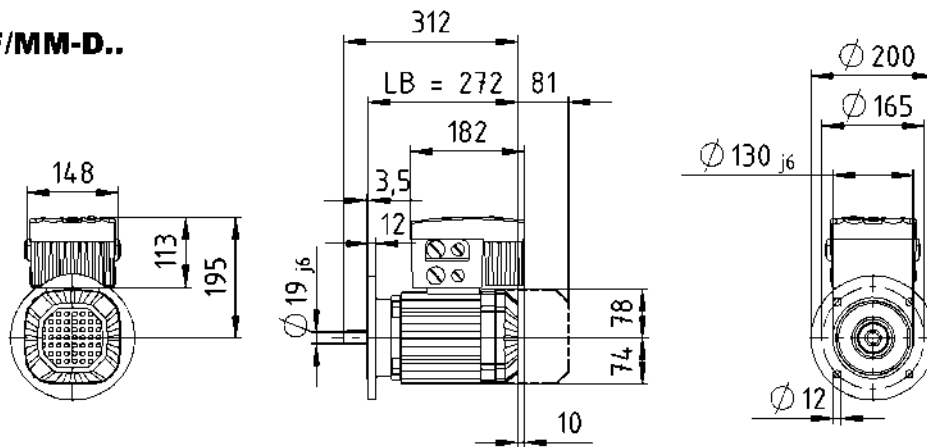
DRE/DRP80M/FI/MM-D..

80 155 00 07

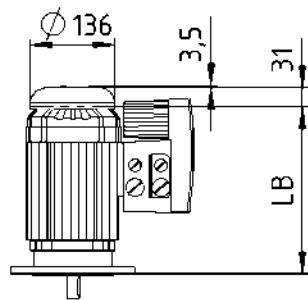
Bl. 1 (2)



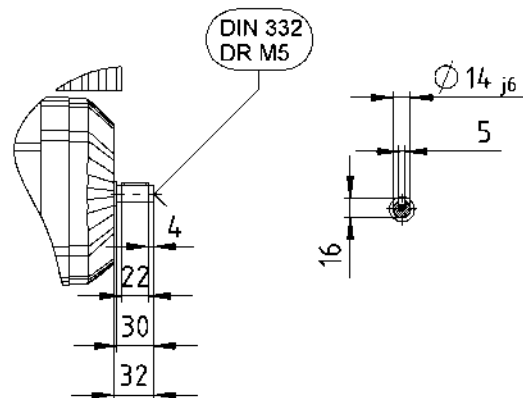
/FF/MM-D..

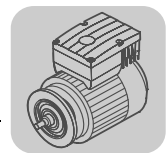


/C/MM-D..



/2W/MM-D..



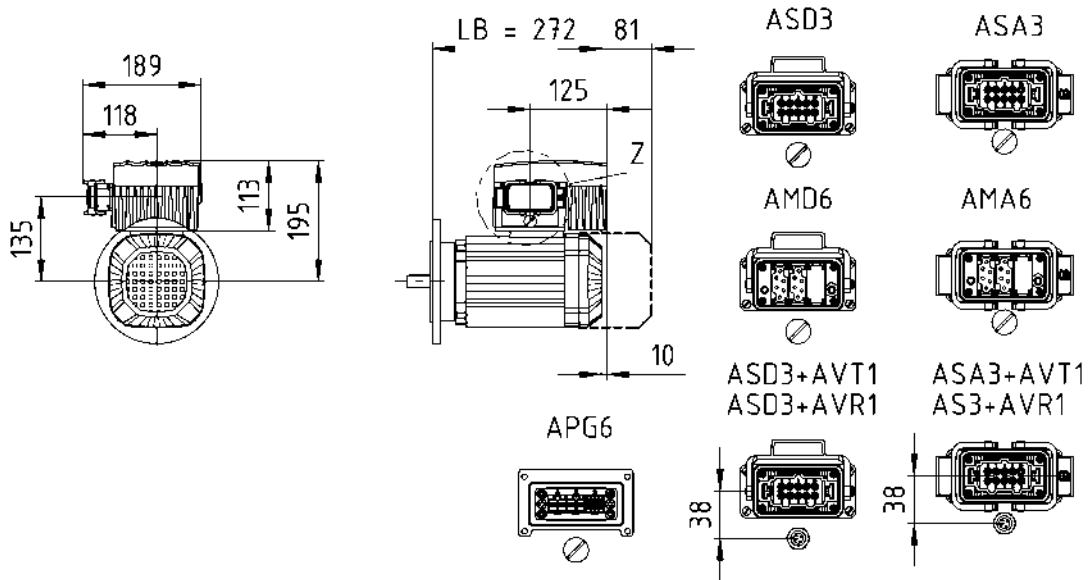


DRE/DRP80M/MM-D..

Z

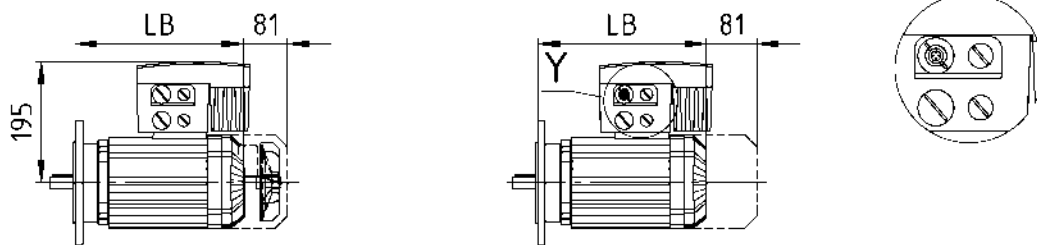
80 155 00 07

Bl. 2 (2)

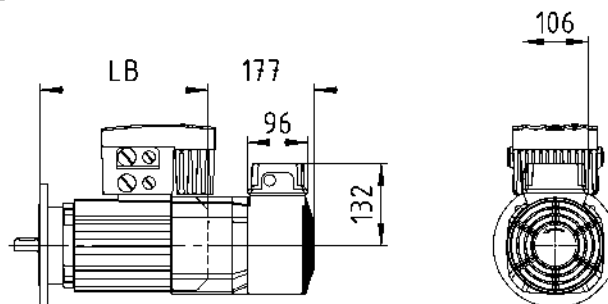


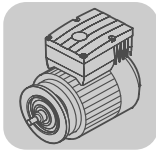
/EI7./MM-D..

**/MM-D../AVT1
/AVR1**



/V/MM-D..

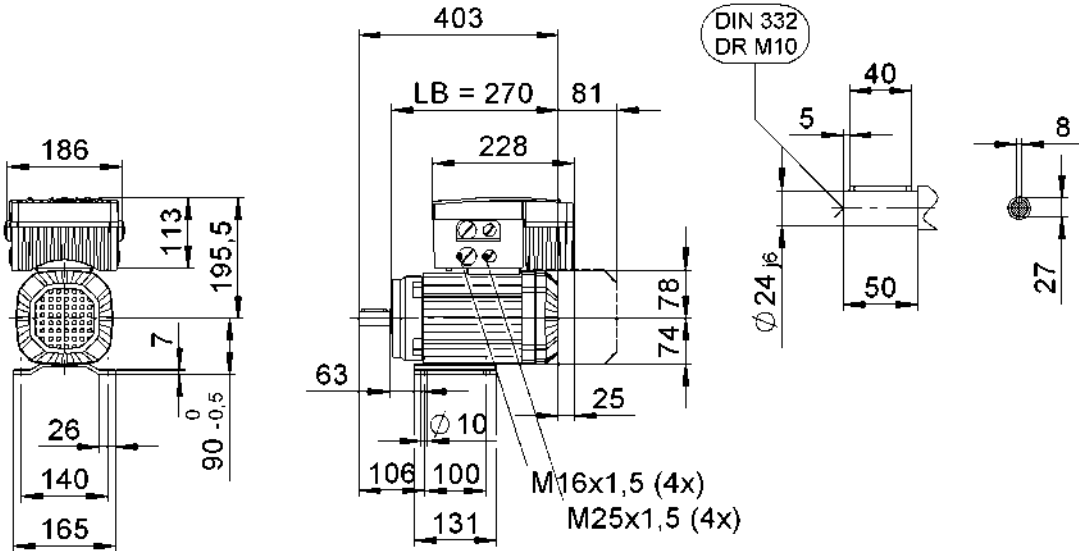




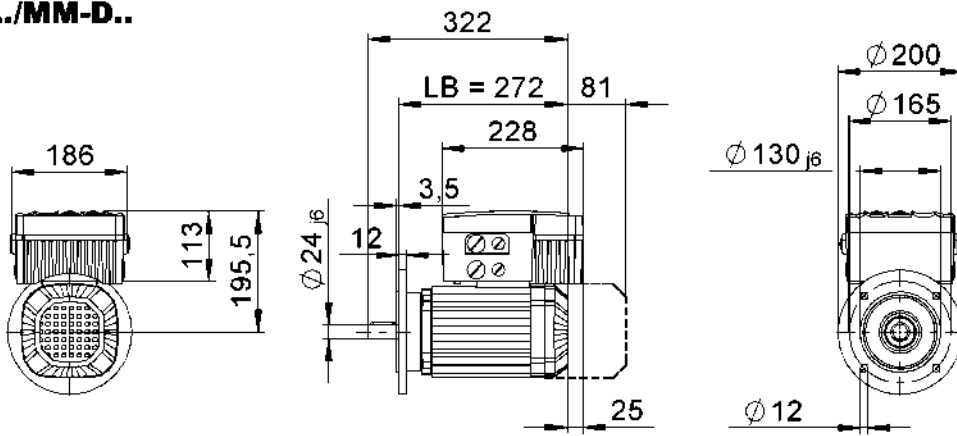
DRS80M/FI../MM-D.. (MM22)

80 156 00 07

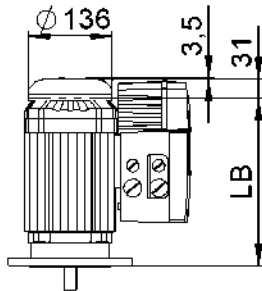
Bl. 1 (2)



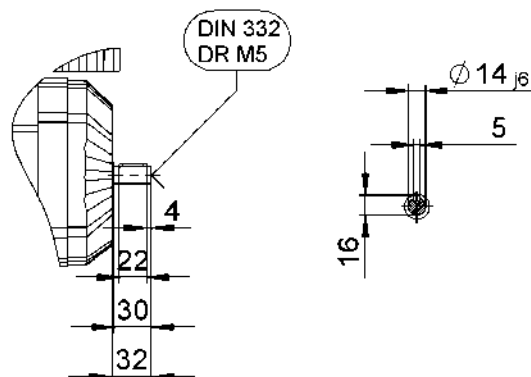
/FF../MM-D..

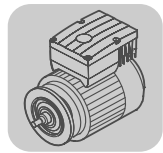


/C/MM-D..



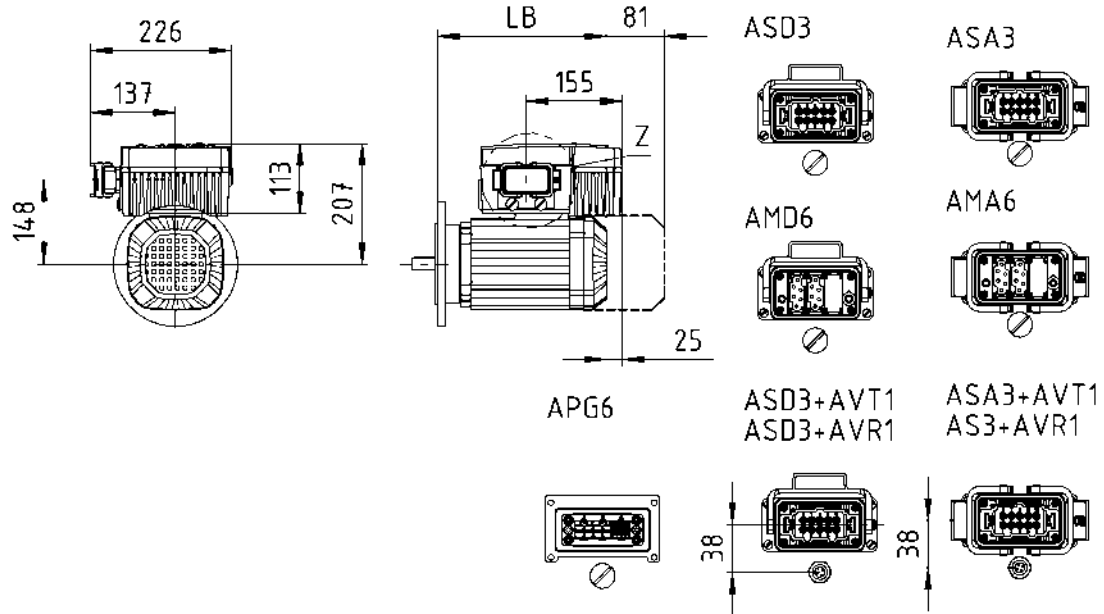
/2W/MM-D..





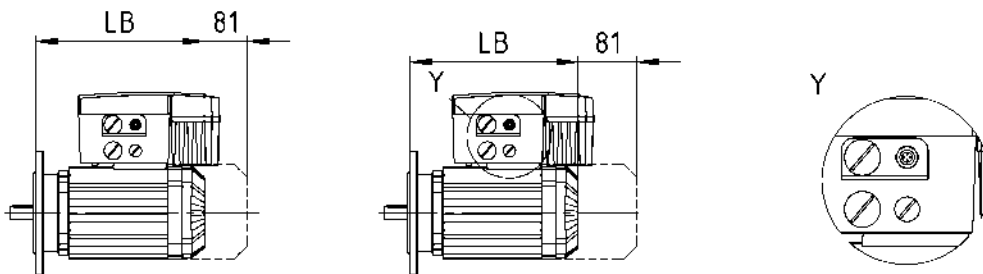
DRS80M/MM-D.. (MM22)

80 156 00 07
Bl. 2 (2)

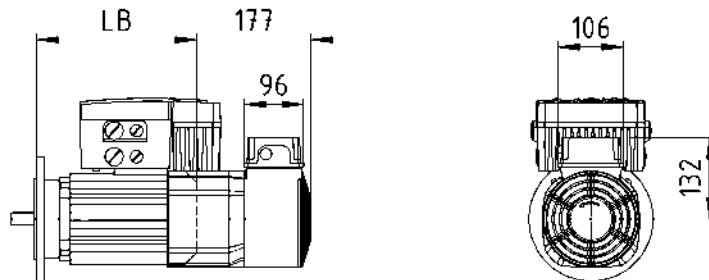


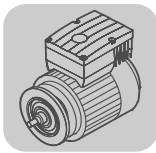
/EI7./MM-D..

**/MM-D../AVT1
/AVR**



/V/MM-D..

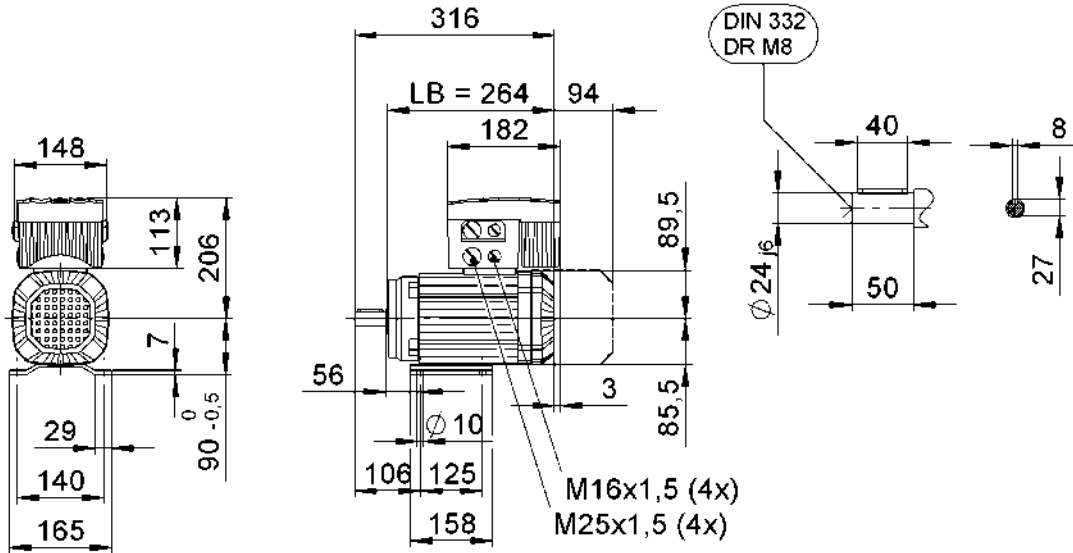




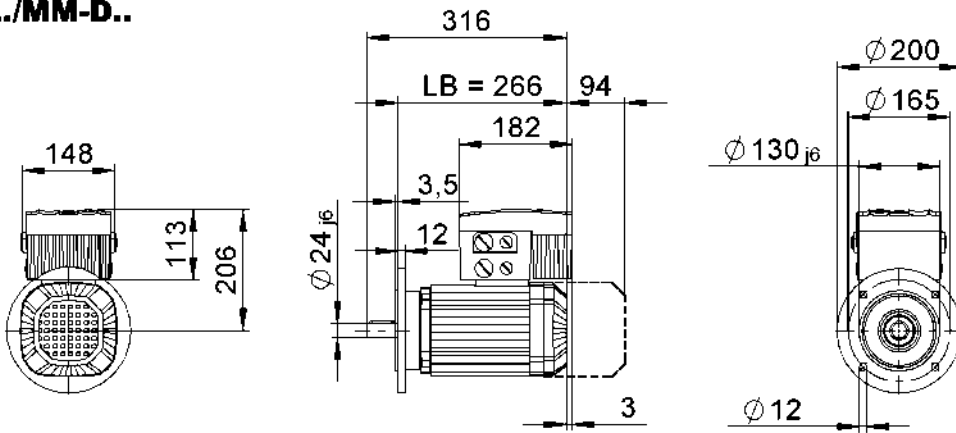
DRS90M/FI../MM-D.. (MM15)

80 157 00 07

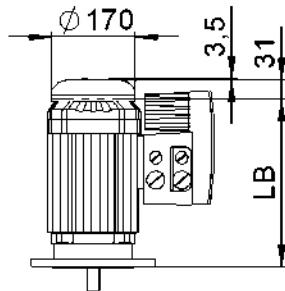
Bl. 1 (2)



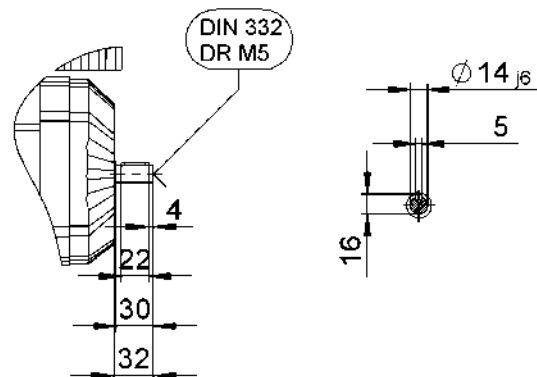
/FF../MM-D..

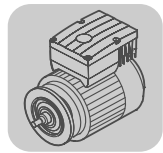


/C/MM-D..

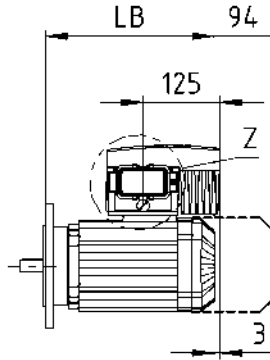
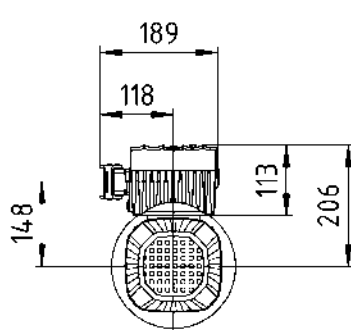


/2W/MM-D..

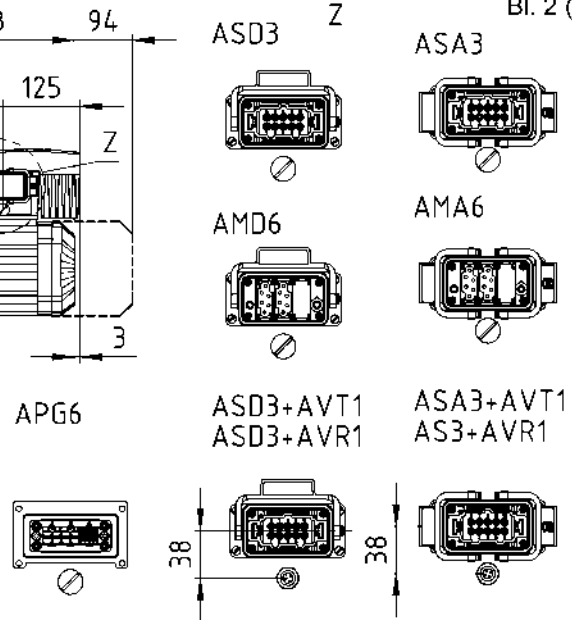




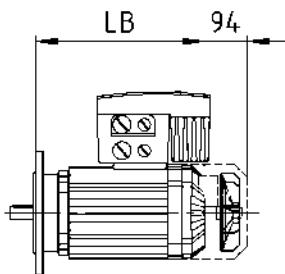
DRS90M/MM-D.. (MM15)



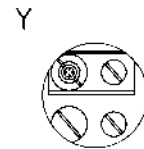
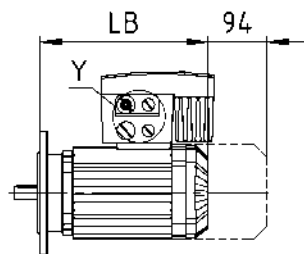
80 157 00 07
Bl. 2 (2)



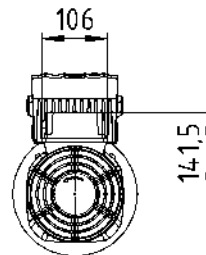
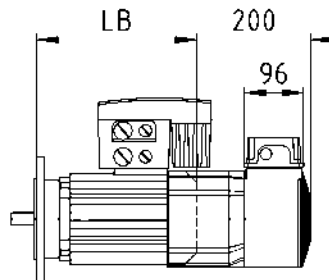
/EI7./MM-D..

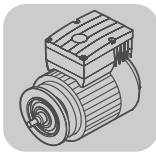


**/MM-D../AVT1
/AVR**



/V/MM-D..

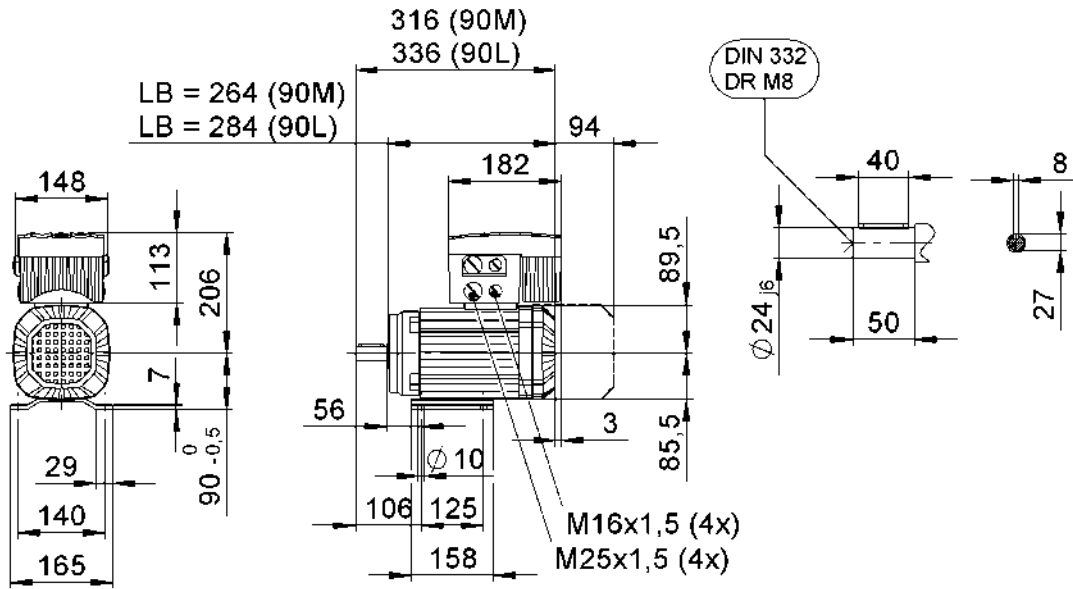




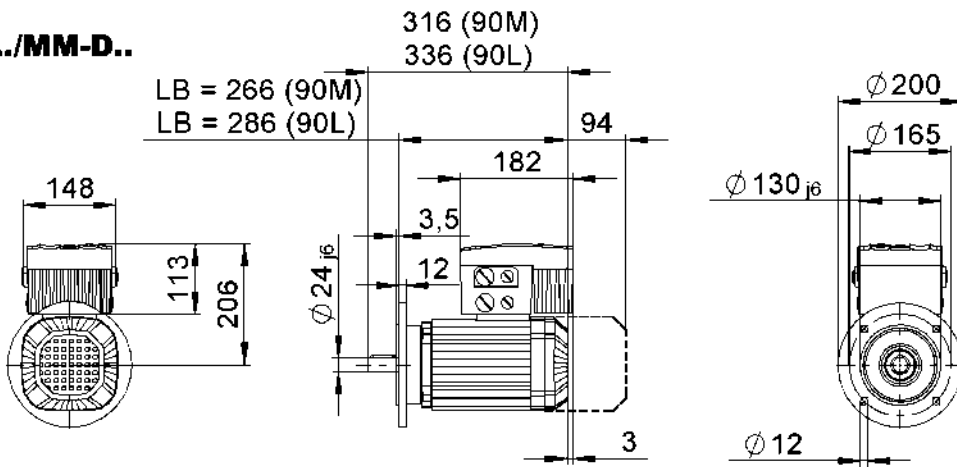
DRE/DRP90M,L/FI../MM-D.. (MM07-15)

80 158 00 07

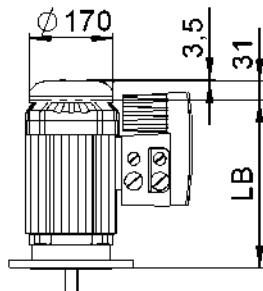
Bl. 1 (2)



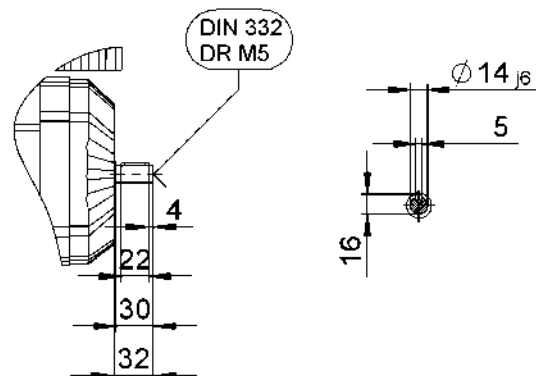
/FF../MM-D..

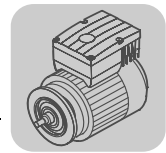


/C/MM-D..



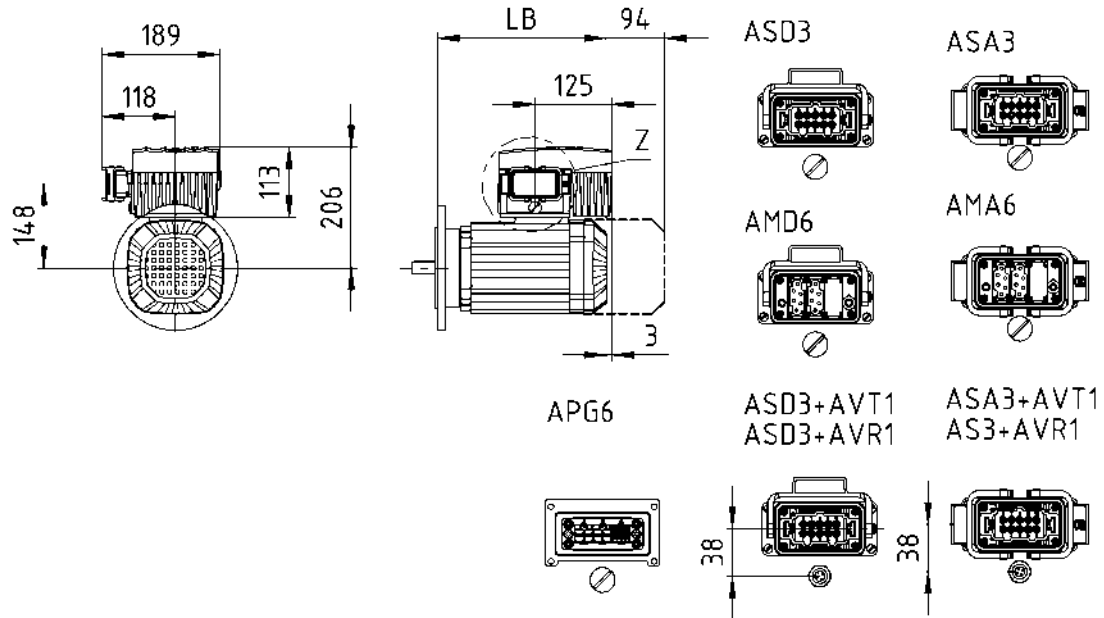
/2W/MM-D..





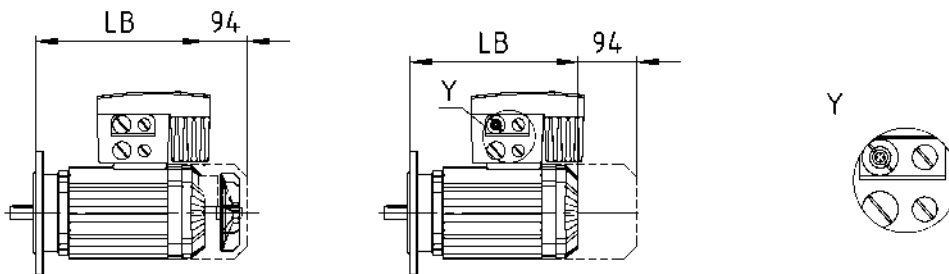
DRE/DRP90M,L/MM-D..

80 158 00 07
Bl. 2 (2)

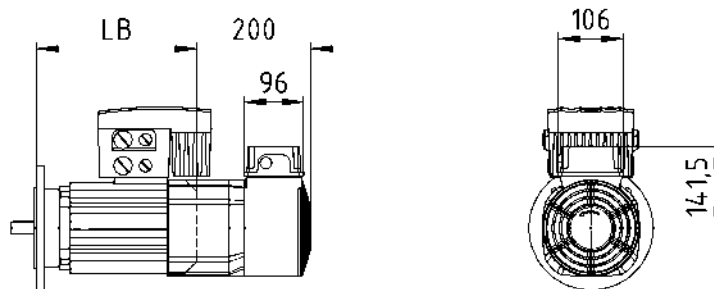


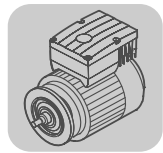
/EI7./MM-D..

**/MM-D../AVT1
/AVR**



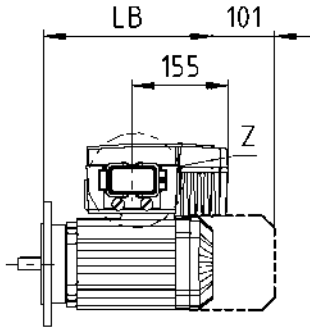
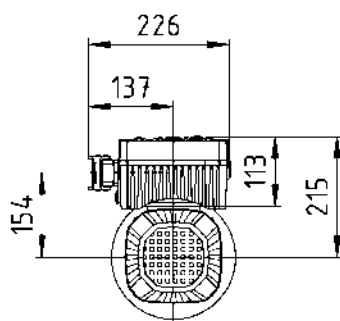
/V/MM-D..





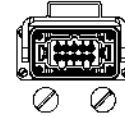
DRS100LC/MM-D..

80 159 00 07
Bl. 2 (2)

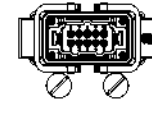


Z

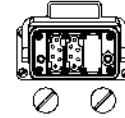
ASD3



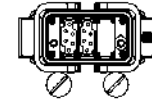
ASA3



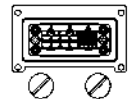
AMD6



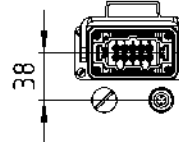
AMA6



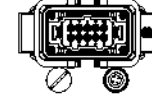
APG6



ASD3+AVT1
ASD3+AVR1

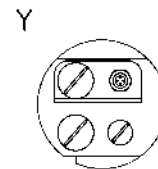
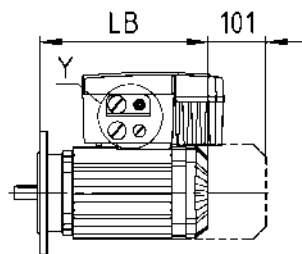
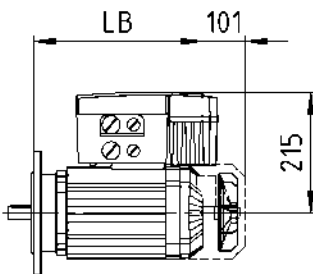


ASA3+AVT1
ASA3+AVR1

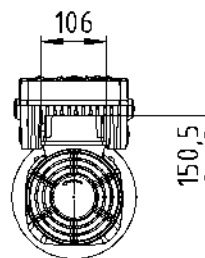
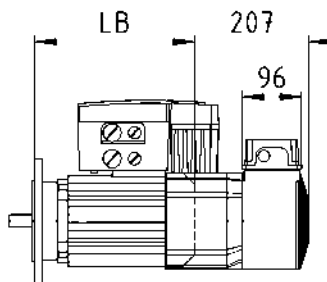


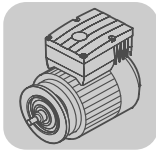
/EI7./MM-D..

**/MM-D../AVT1
/AVR**



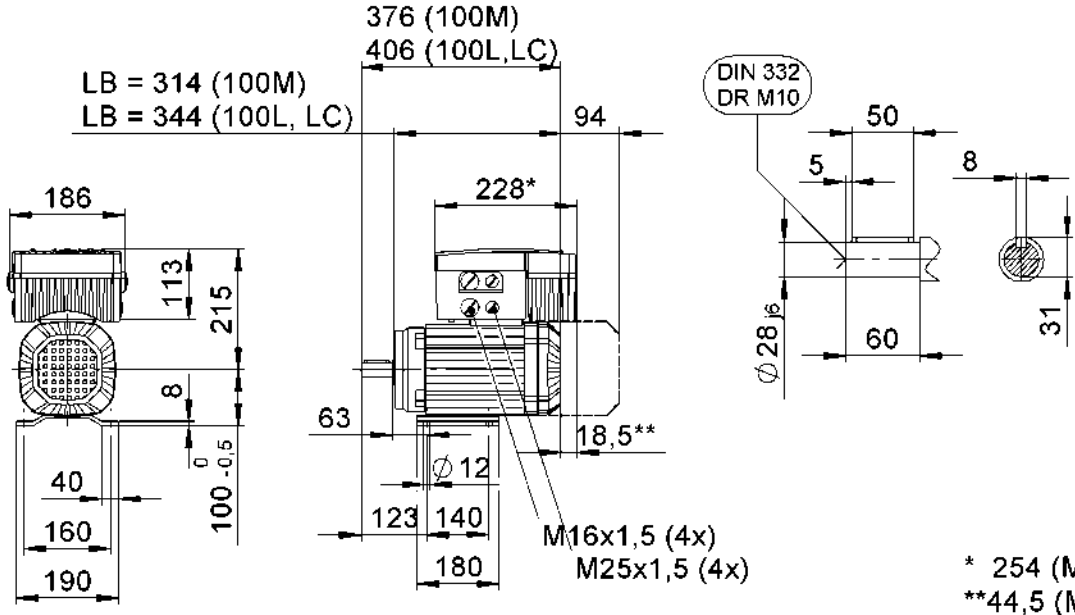
/V/MM-D..



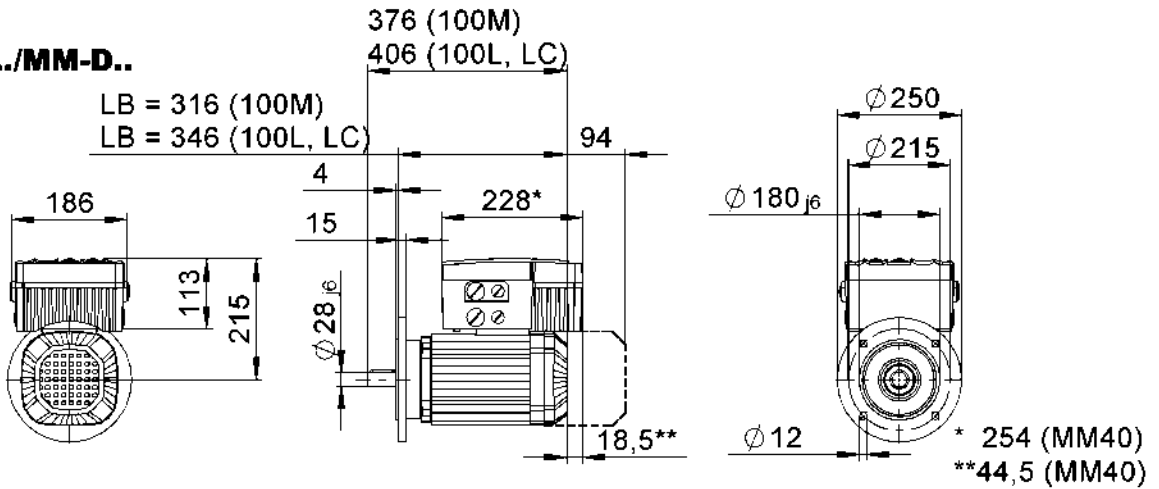


DRS100M,L/FI../MM-D..
DRE/DRP100M,L,LC/FI../MM-D..

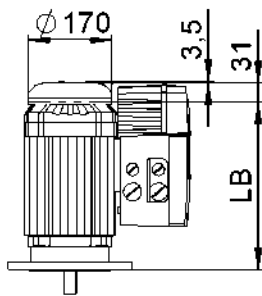
80 160 00 07
Bl. 1 (2)



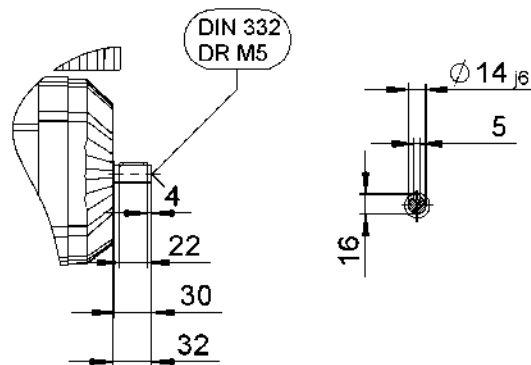
/FF../MM-D..

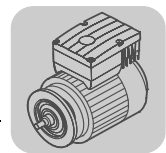


/C/MM-D..



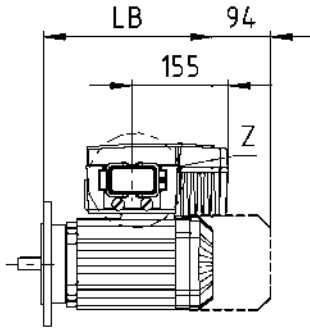
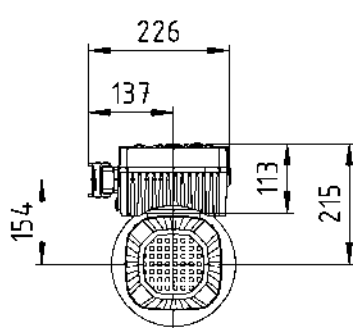
/2W/MM-D..





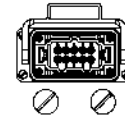
DRS100M,L/MM-D..
DRE/DRP100M,L,LC/R../MM-D..

80 160 00 07
Bl. 2 (2)

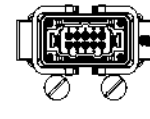


Z

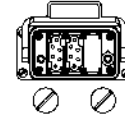
ASD3



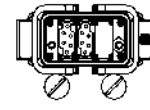
ASA3



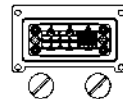
AMD6



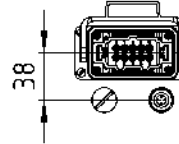
AMA6



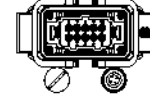
APG6



ASD3+AVT1
ASD3+AVR1

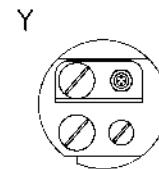
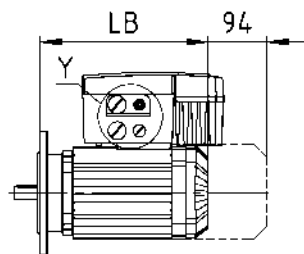
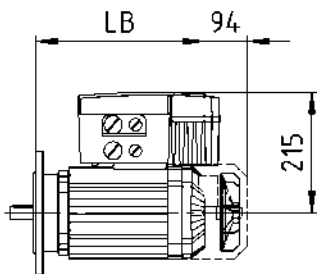


ASA3+AVT1
ASA3+AVR1

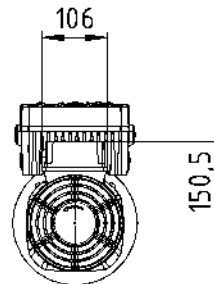
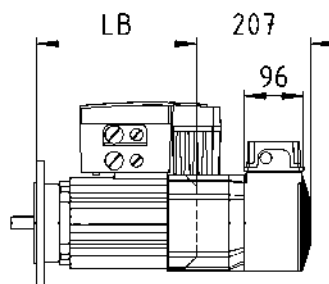


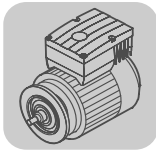
/EI7./MM-D..

/MM-D../AVT1
/AVR



/V/MM-D..

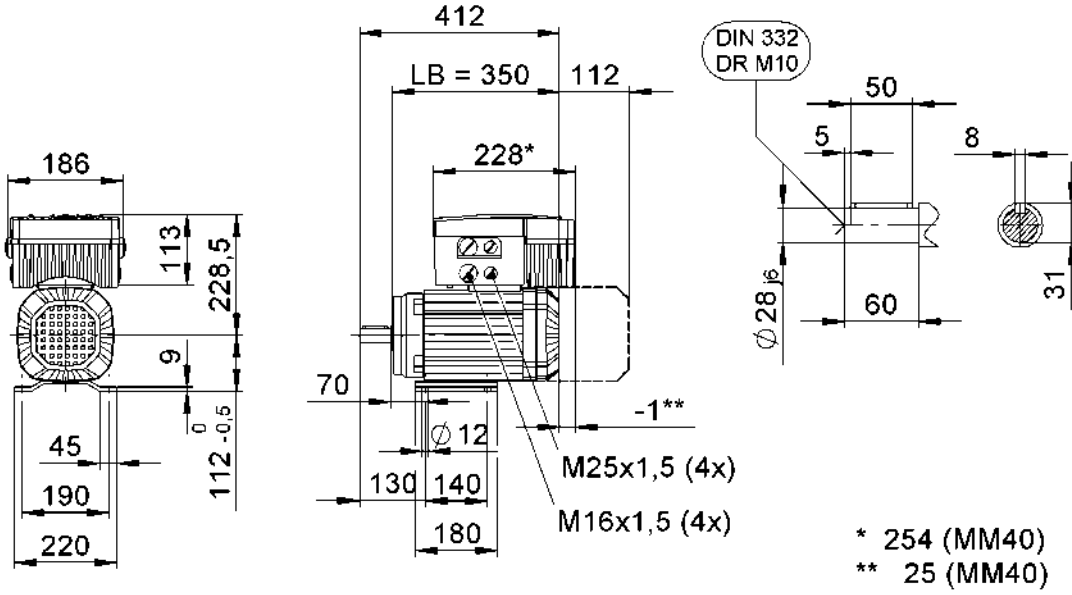




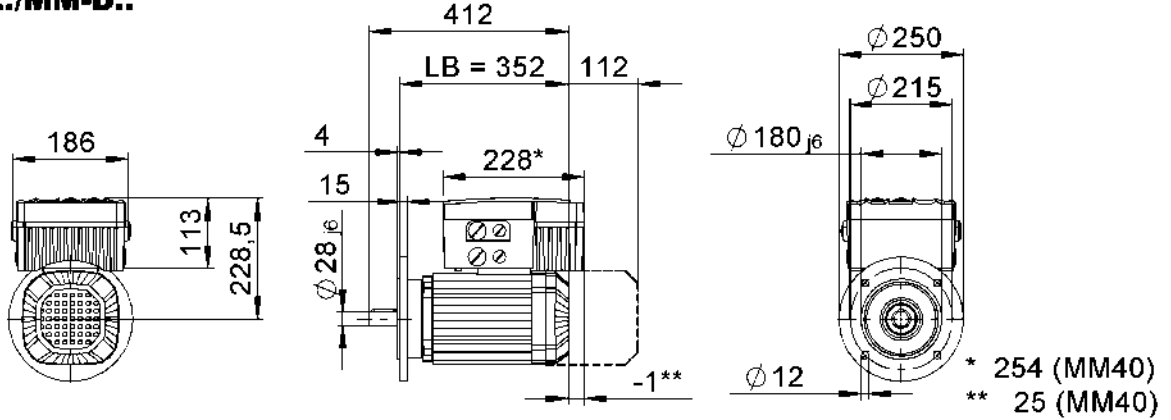
DRE/DRP112M/FI../MM-D..

80 162 00 07

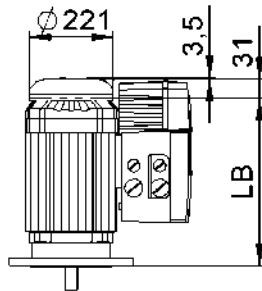
Bl. 1 (2)



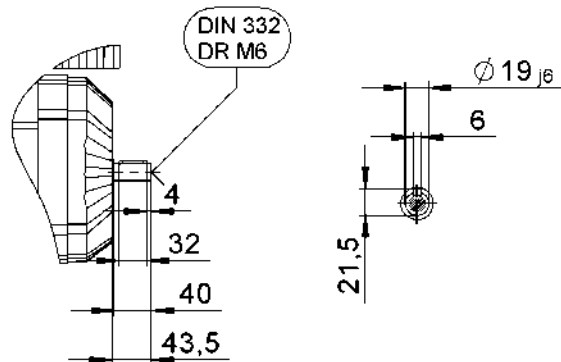
/FF../MM-D..

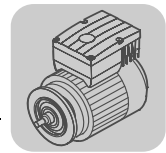


/C/MM-D..



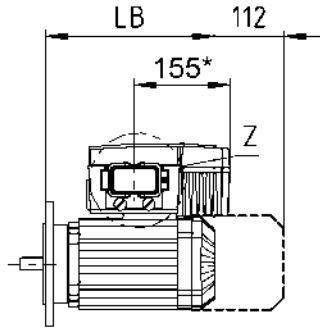
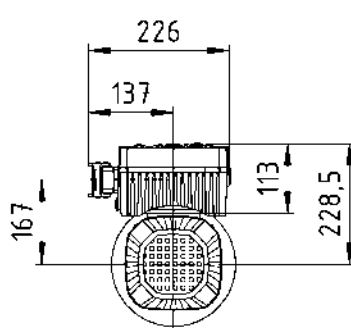
/2W/MM-D..



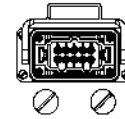


DRE/DRP112M/MM-D..

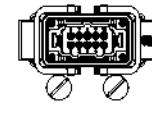
80 162 00 07
Bl. 2 (2)



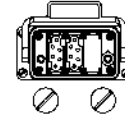
ASD3



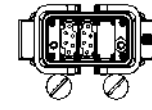
ASA3



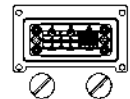
AMD6



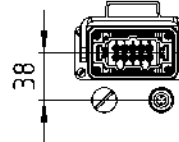
AMA6



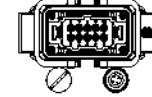
APG6



ASD3+AVT1
ASD3+AVR1



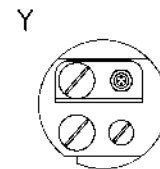
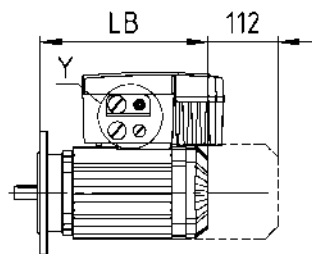
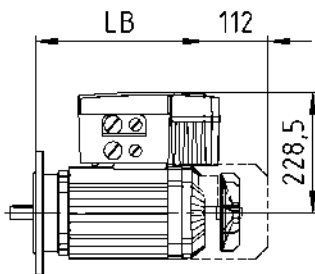
ASA3+AVT1
ASA3+AVR1



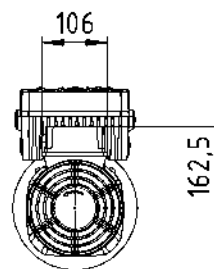
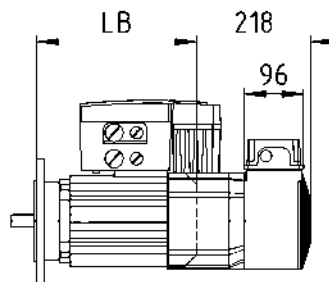
* 181 (MM40)

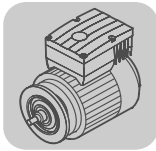
/EI7./MM-D..

**/MM-D../AVT1
/AVR**



/V/MM-D..

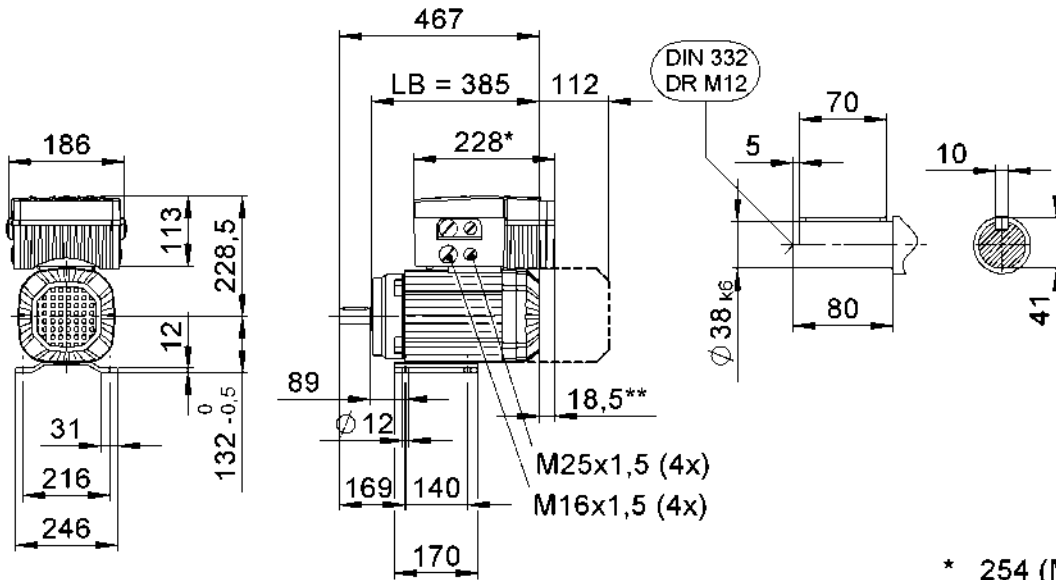




DRS132S/FI../MM-D..

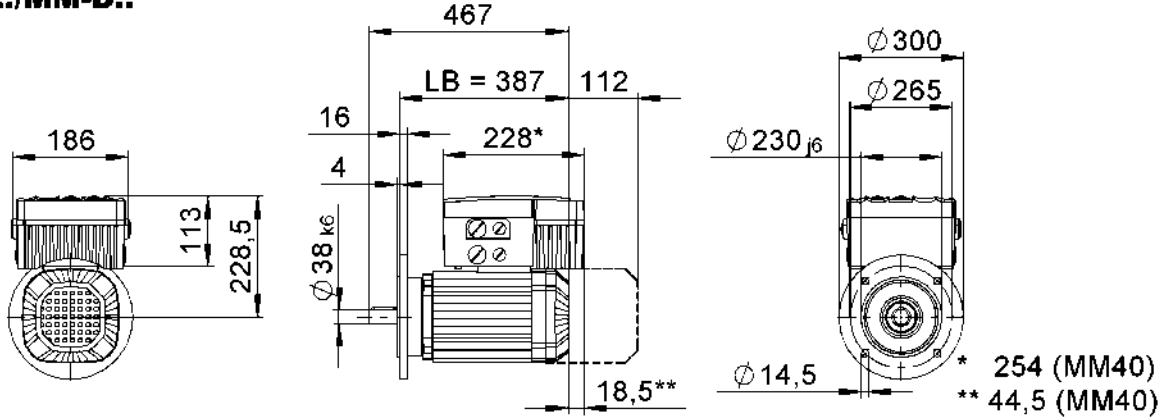
80 163 00 07

Bl. 1 (2)



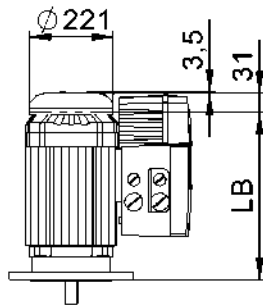
* 254 (MM40)
** 44,5 (MM40)

/FF../MM-D..

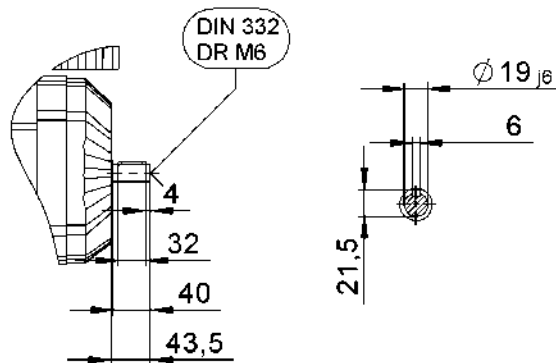


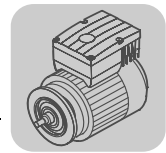
* 254 (MM40)
** 44,5 (MM40)

/C/MM-D..



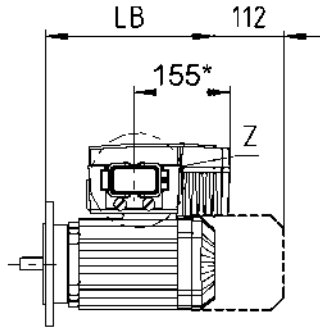
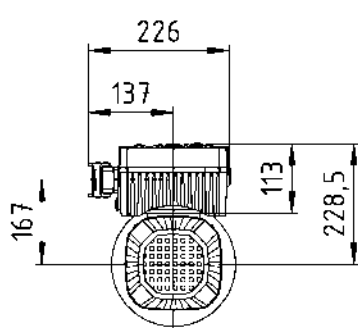
/2W/MM-D..



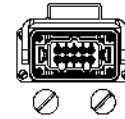


DRS132S/MM-D..

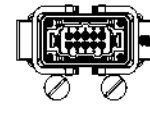
80 163 00 07
Bl. 2 (2)



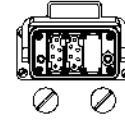
ASD3



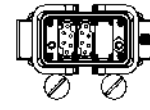
ASA3



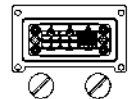
AMD6



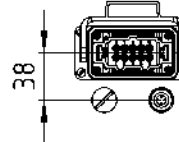
AMA6



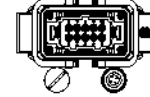
APG6



ASD3+AVT1
ASD3+AVR1



ASA3+AVT1
ASA3+AVR1



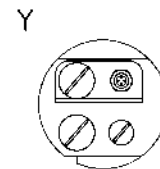
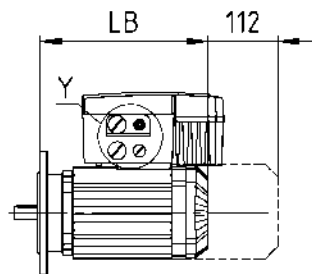
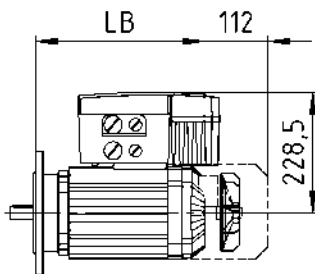
38

Z

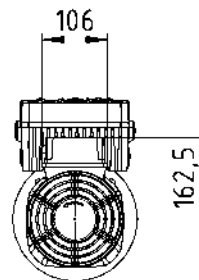
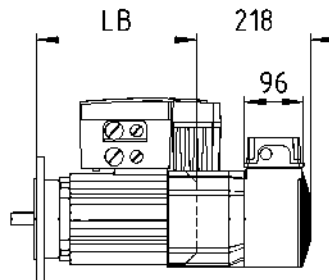
* 181 (MM40)

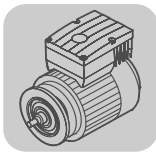
/EI7./MM-D..

**/MM-D../AVT1
/AVR**



/V/MM-D..

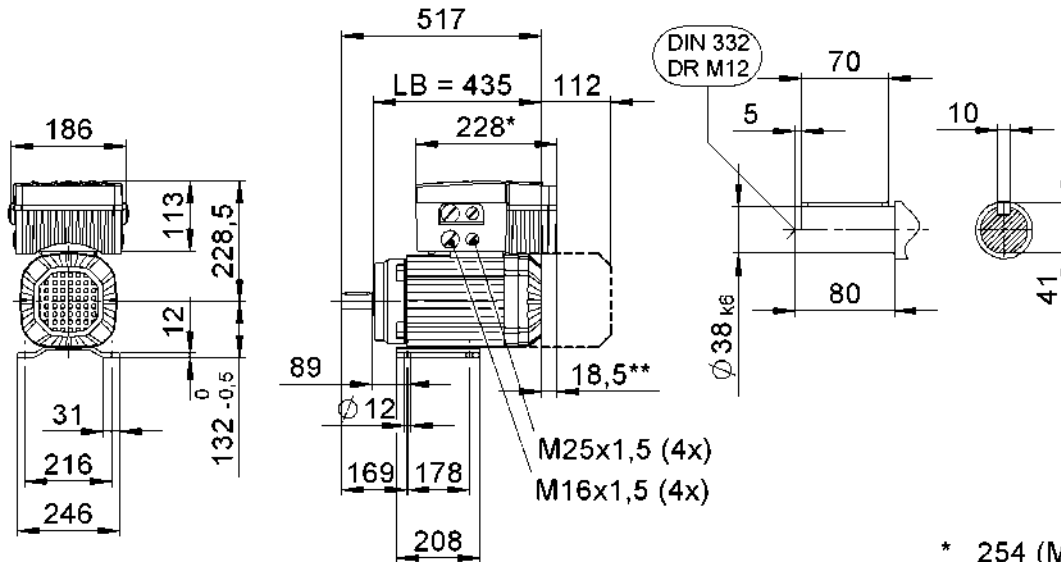




DRS/DRE/DRP132M,MC/FI./MM-D..

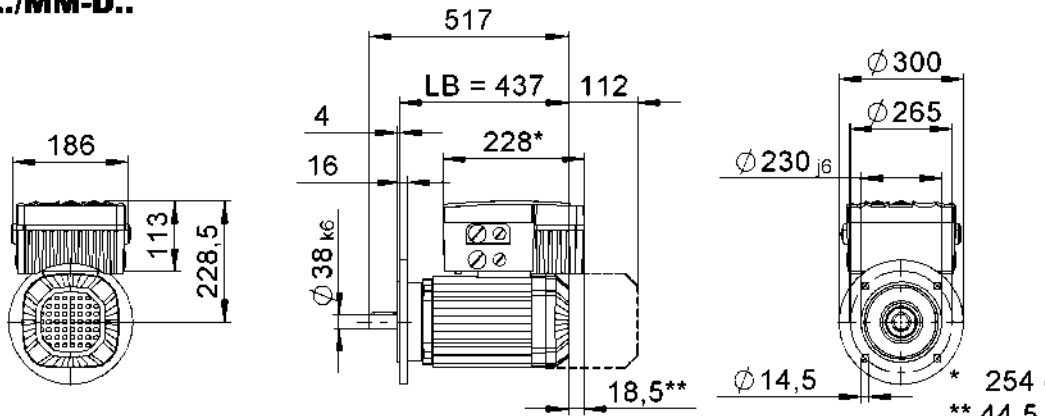
80 164 00 07

Bl. 1 (2)



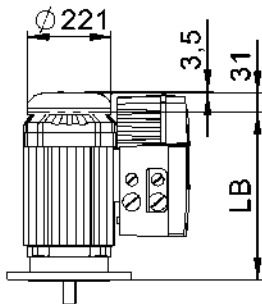
* 254 (MM40)
** 44,5 (MM40)

/FF../MM-D..

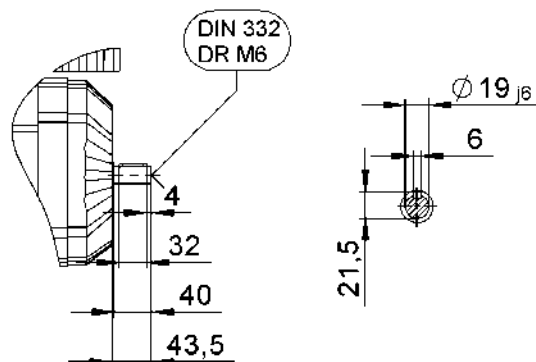


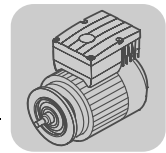
* 254 (MM40)
** 44,5 (MM40)

/C/MM-D..



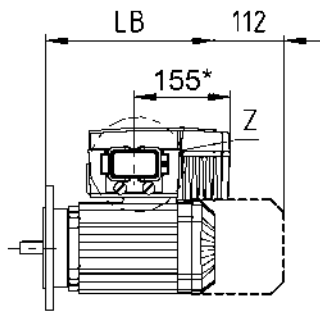
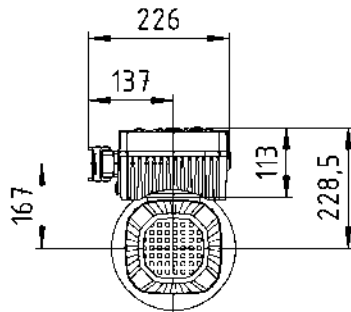
/2W/MM-D..





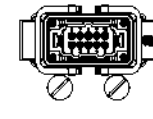
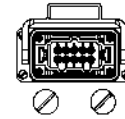
DRS/DRE/DRP132M,MC/MM-D..

80 164 00 07
Bl. 2 (2)



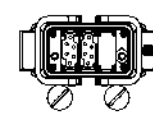
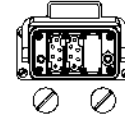
ASD3

ASA3



AMD6

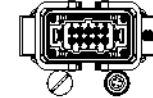
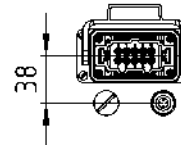
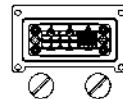
AMA6



APG6

ASD3+AVT1
ASD3+AVR1

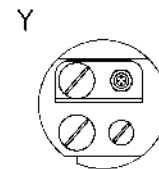
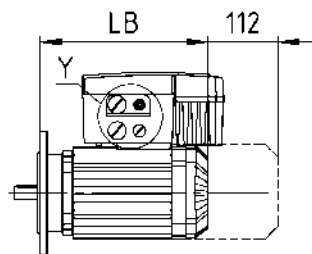
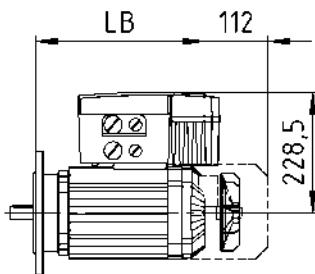
ASA3+AVT1
ASA3+AVR1



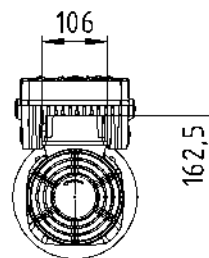
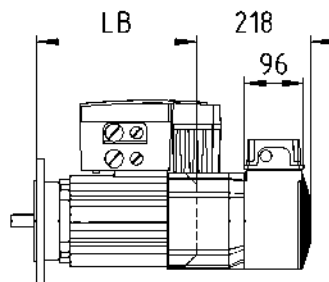
* 181 (MM40)

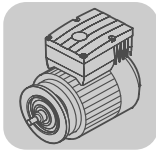
/EI7./MM-D..

**/MM-D../AVT1
/AVR**



/V/MM-D..

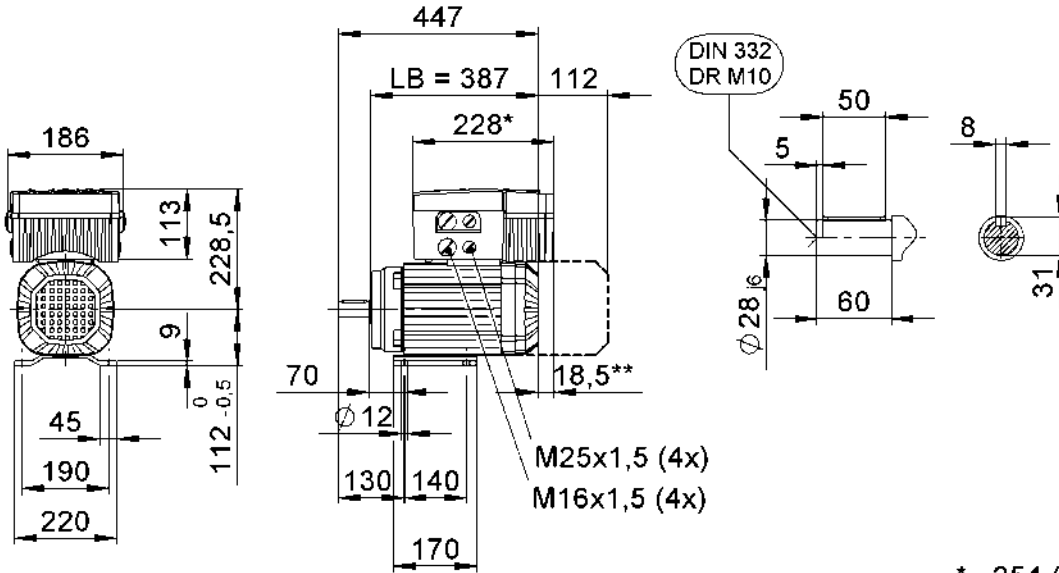




DRE/DRP132S/Fl./MM-D..

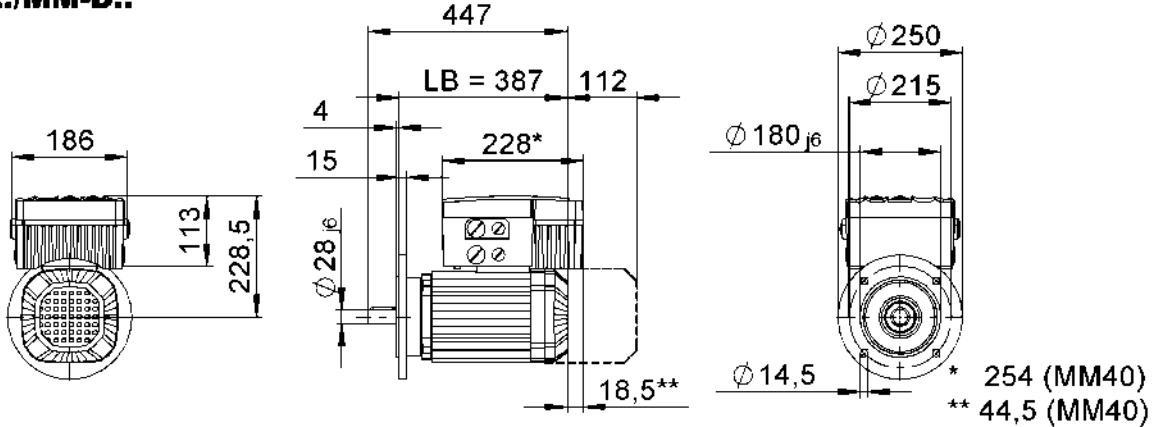
80 165 00 07

Bl. 1 (2)



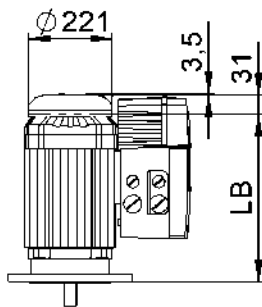
* 254 (MM40)
** 44,5 (MM40)

/FF./MM-D..

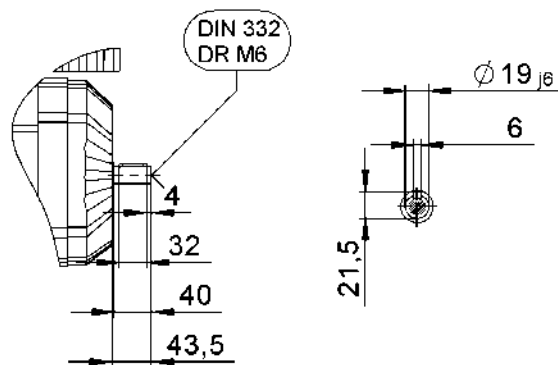


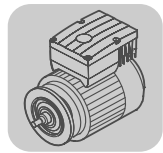
* 254 (MM40)
** 44,5 (MM40)

/C/MM-D..



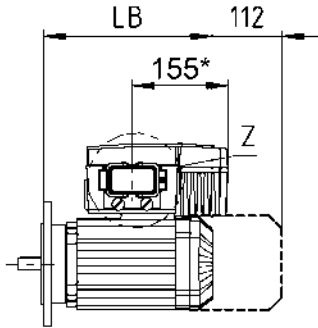
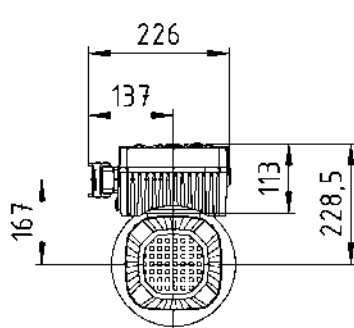
/2W/MM-D..



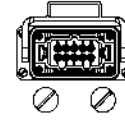


DRE/DRP132S/MM-D..

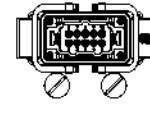
80 165 00 07
Bl. 2 (2)



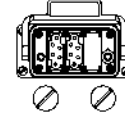
ASD3



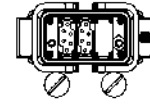
ASA3



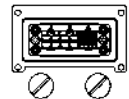
AMD6



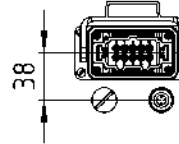
AMA6



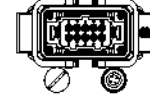
APG6



ASD3+AVT1
ASD3+AVR1



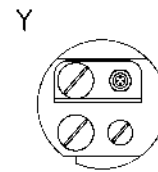
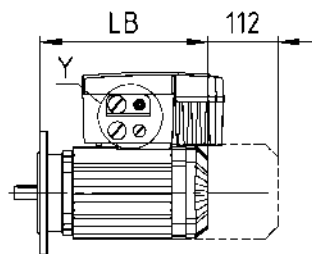
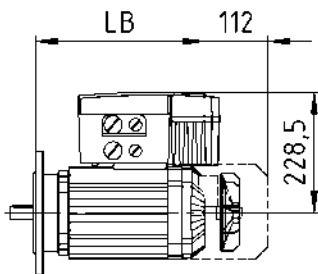
ASA3+AVT1
ASA3+AVR1



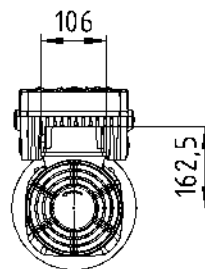
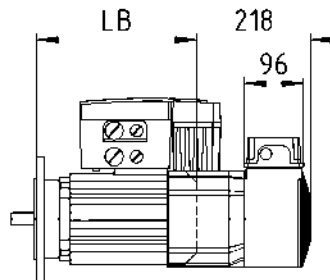
* 181 (MM40)

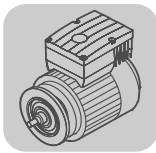
/EI7./MM-D..

**/MM-D../AVT1
/AVR**



/V/MM-D..

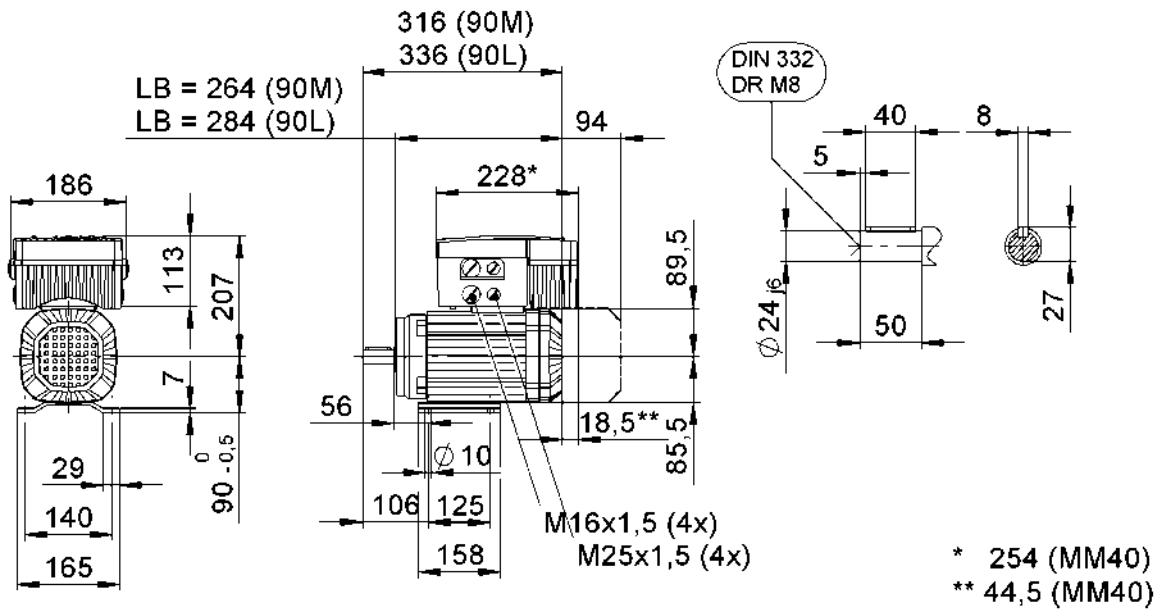




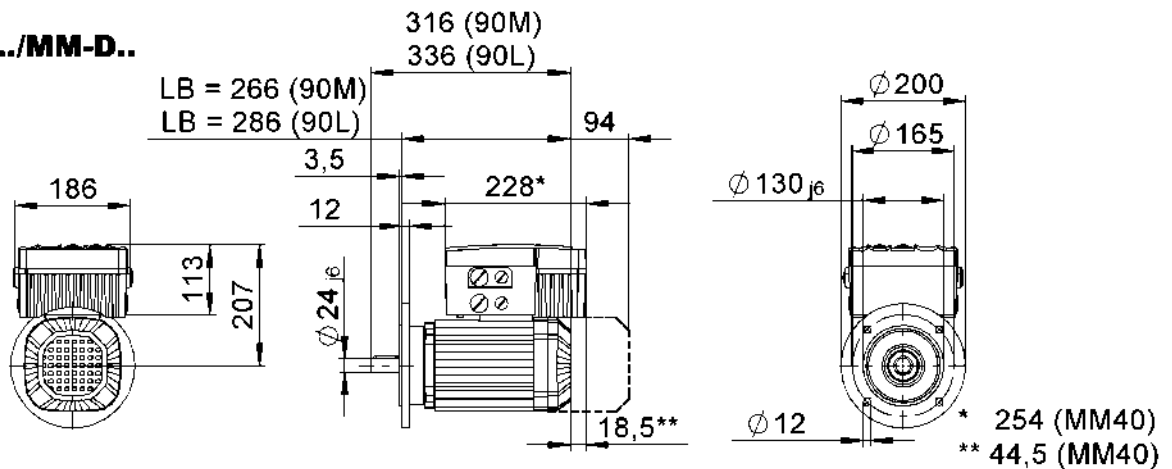
DRE/DRP90M,L/FL./MM-D..(MM22-40)

80 167 00 07

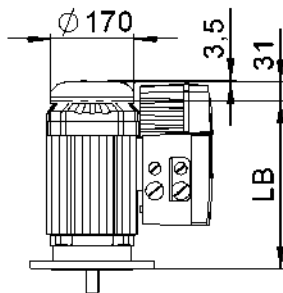
Bl. 1 (2)



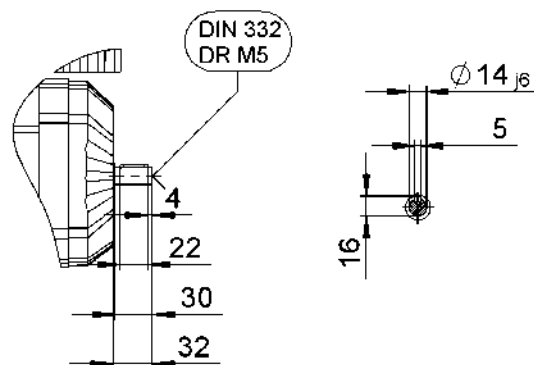
/FF../MM-D..



/C/MM-D..

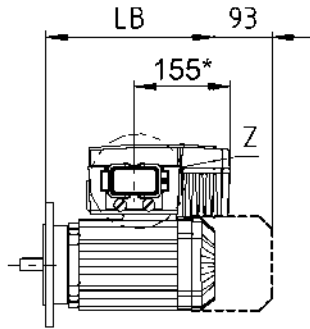
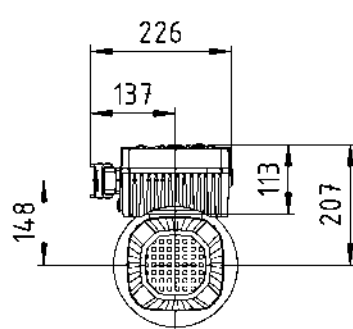


/2W/MM-D..

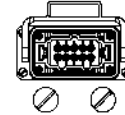


DRE/DRP90M,L/MM-D..(MM22-40)

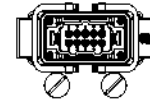
80 167 00 07
Bl. 2 (2)



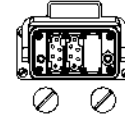
ASD3



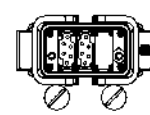
ASA3



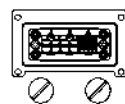
AMD6



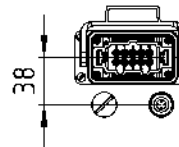
AMA6



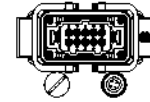
APG6



ASD3+AVT1
ASD3+AVR1



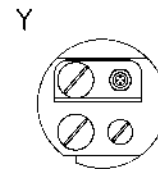
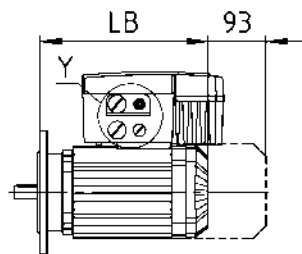
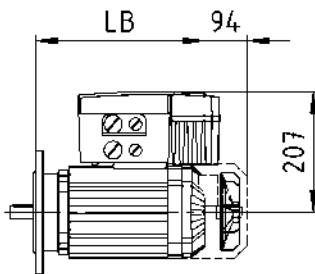
ASA3+AVT1
ASA3+AVR1



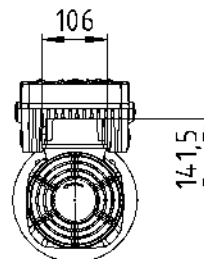
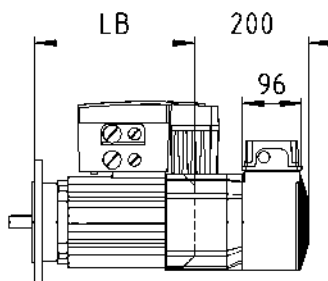
* 181 (MM40)

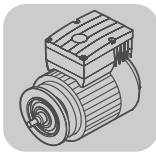
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**/MM-D../AVT1
/AVR**



/V/MM-D..

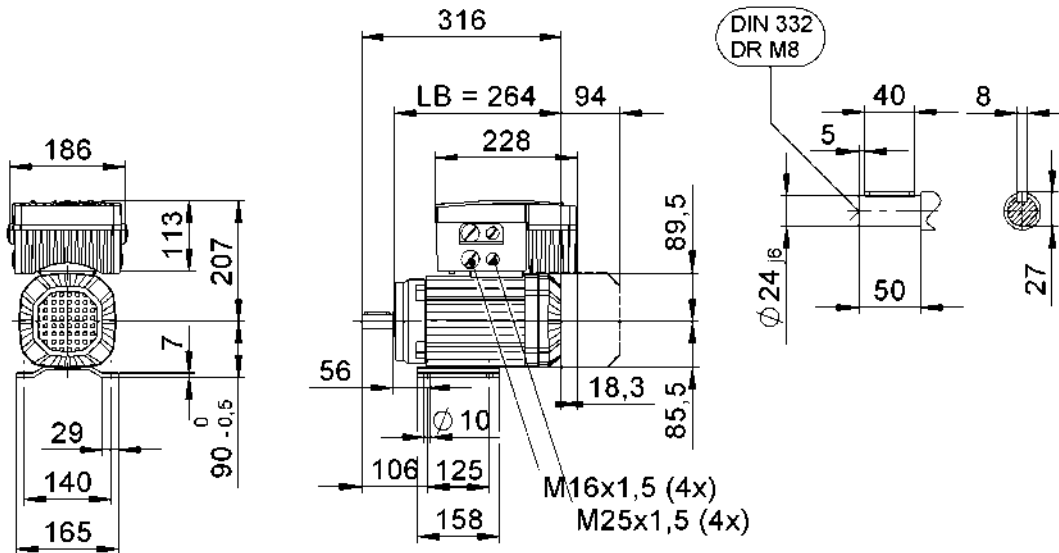




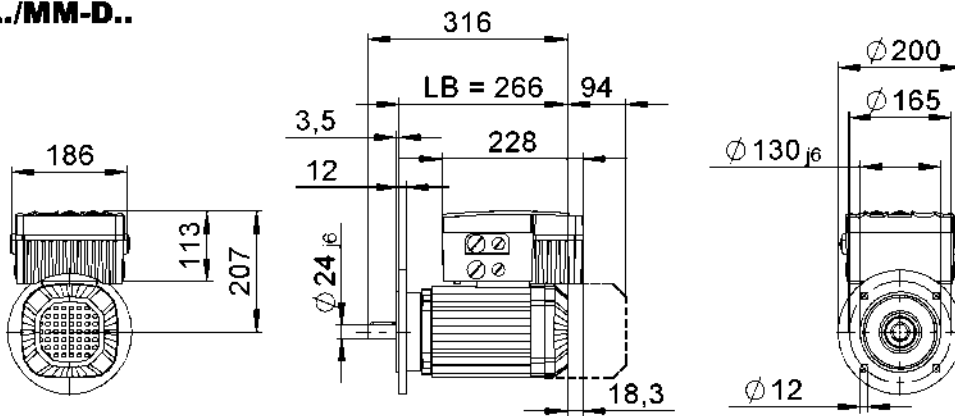
DRS90M/FI../MM-D..(MM22-30)

80 168 00 07

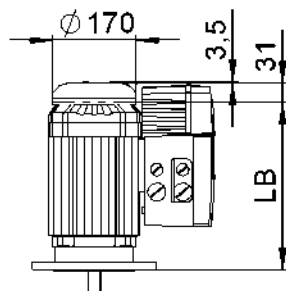
Bl. 1 (2)



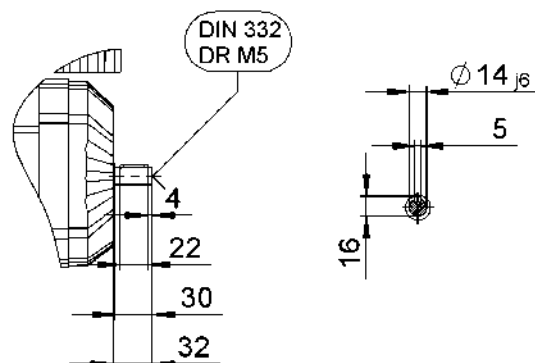
/FF../MM-D..

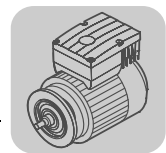


/C/MM-D..



/2W/MM-D..

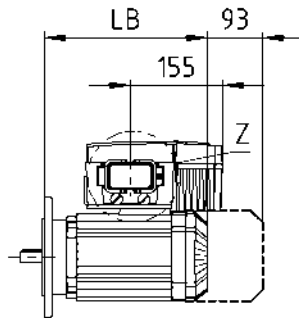
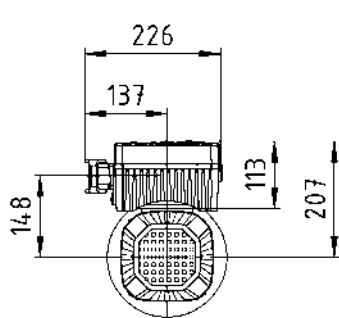




DRS90M/MM-D..(MM22-30)

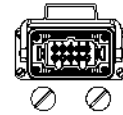
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Bl. 2 (2)

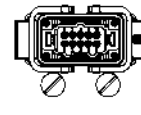


Z

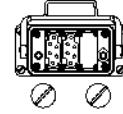
ASD3



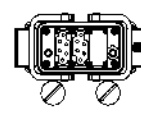
ASA3



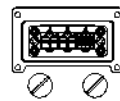
AMD6



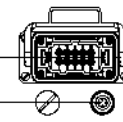
AMA6



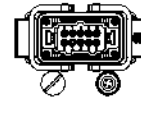
APG6



ASD3+AVT1
ASD3+AVR1



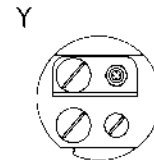
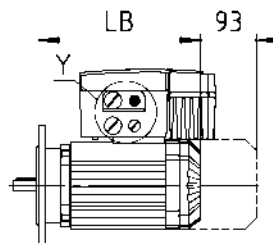
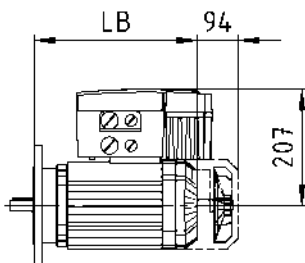
ASA3+AVT1
ASA3+AVR1



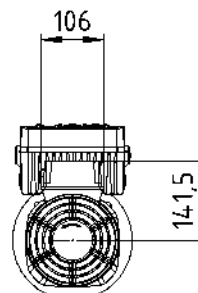
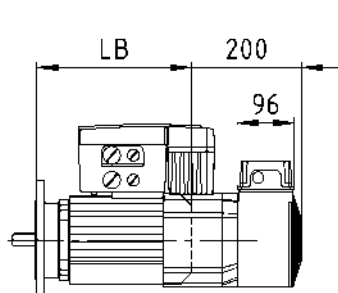
38

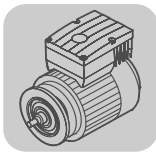
/EI7./MM-D..

**/MM-D../AVT1
/AVR**



/V/MM-D..

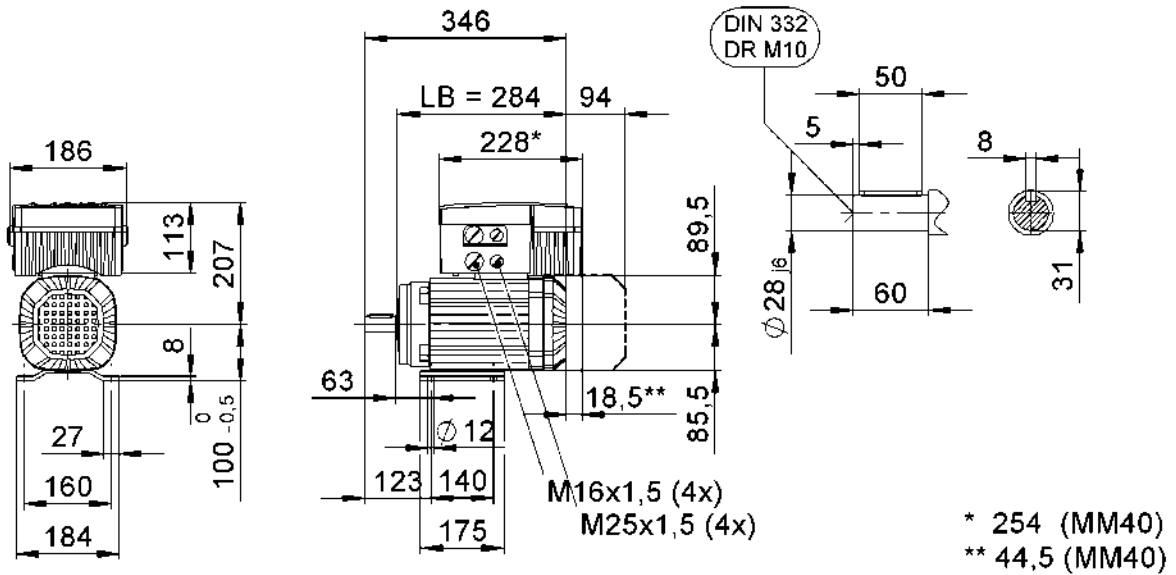




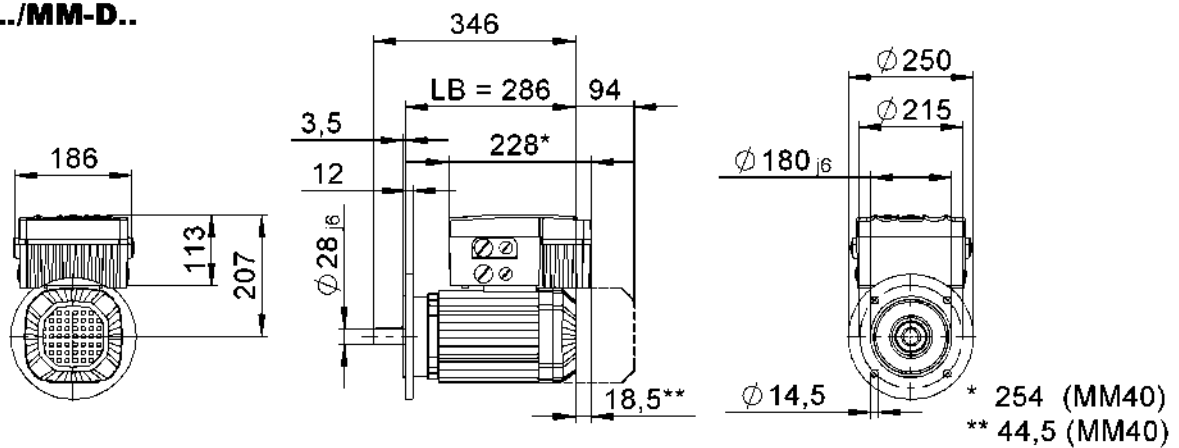
DRS90L/FL../MM-D..(MM22-40)

80 169 00 07

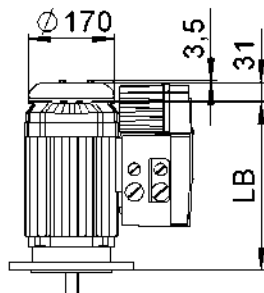
Bl. 1 (2)



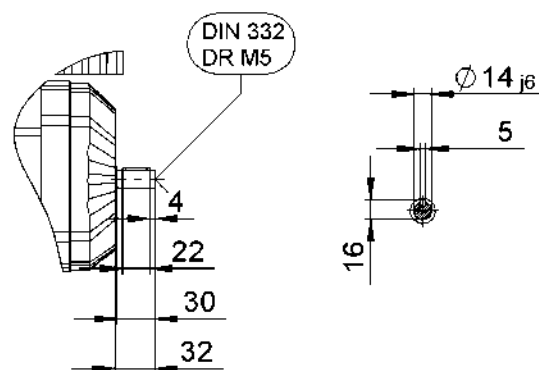
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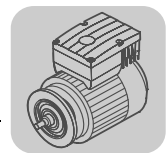


/C/MM-D..



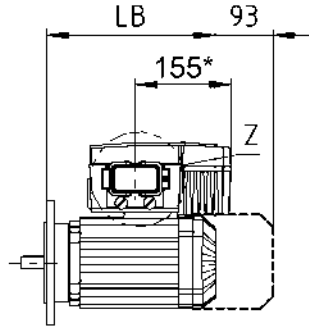
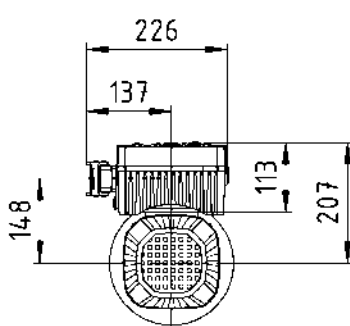
/2W/MM-D..





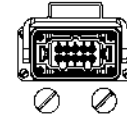
DRS90L/MM-D..(MM22-40)

80 169 00 07
Bl. 2 (2)

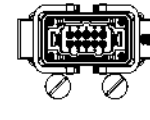


Z

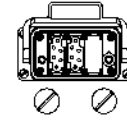
ASD3



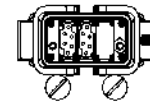
ASA3



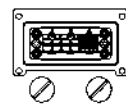
AMD6



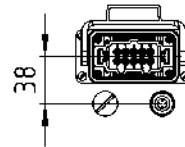
AMA6



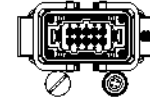
APG6



ASD3+AVT1
ASD3+AVR1



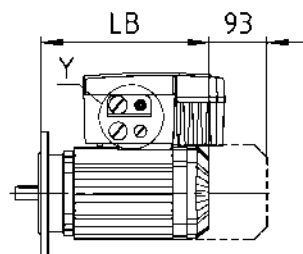
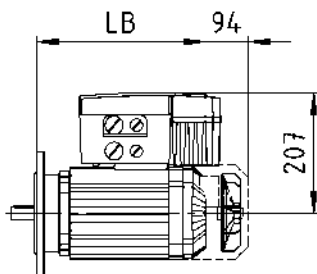
ASA3+AVT1
ASA3+AVR1



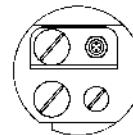
* 181 (MM40)

/EI7./MM-D..

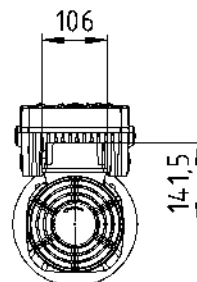
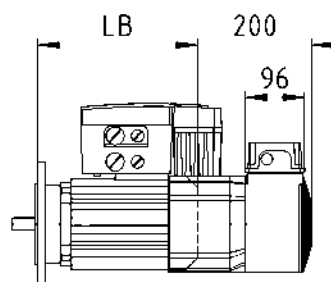
**/MM-D../AVT1
/AVR**

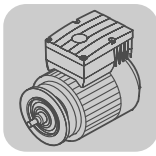


Y



/V/MM-D..





14.7 Fieldbus interfaces

Functional description

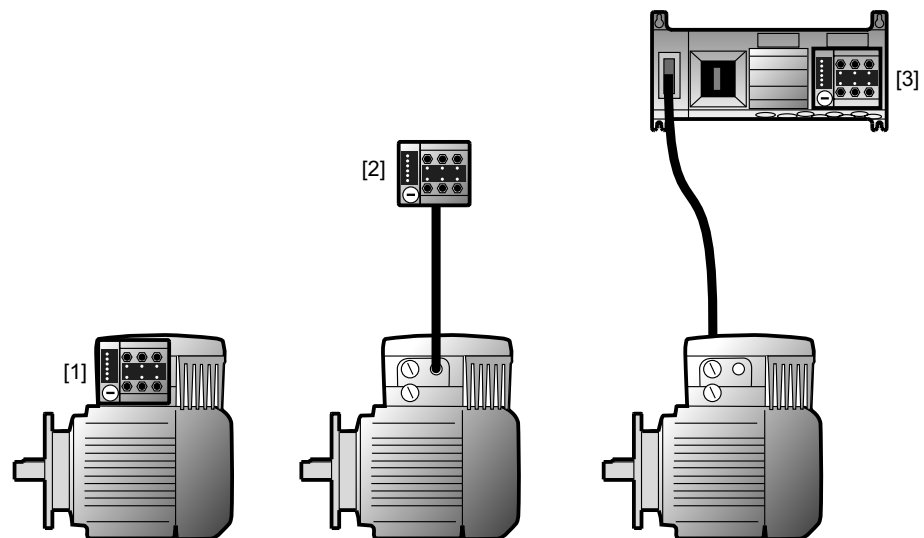
Type MF.. fieldbus interfaces allow for connecting MOVIMOT® and MOVI-SWITCH® drives to a standardized fieldbus system. These fieldbus interfaces not only allow for controlling MOVIMOT® and MOVI-SWITCH® drives but also for reading sensor signals as well as controlling actuators via the digital input and output terminals. All fieldbus interfaces and field distributors are supplied in protection class IP65 as standard.

Type MQ.. fieldbus interfaces are based on the same housing and fieldbus technology as type MF.. fieldbus interfaces but are additionally equipped with an integrated control featuring the following functions:

- Programmable using IPOS^{plus}®
- Simple positioning with built-in encoder EI7C
- Integrated I/O preprocessing and timing elements
- Protocol modification

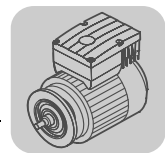
Installation options:

The following illustration shows the different installation options of the fieldbus interfaces MF.. / MQ..:

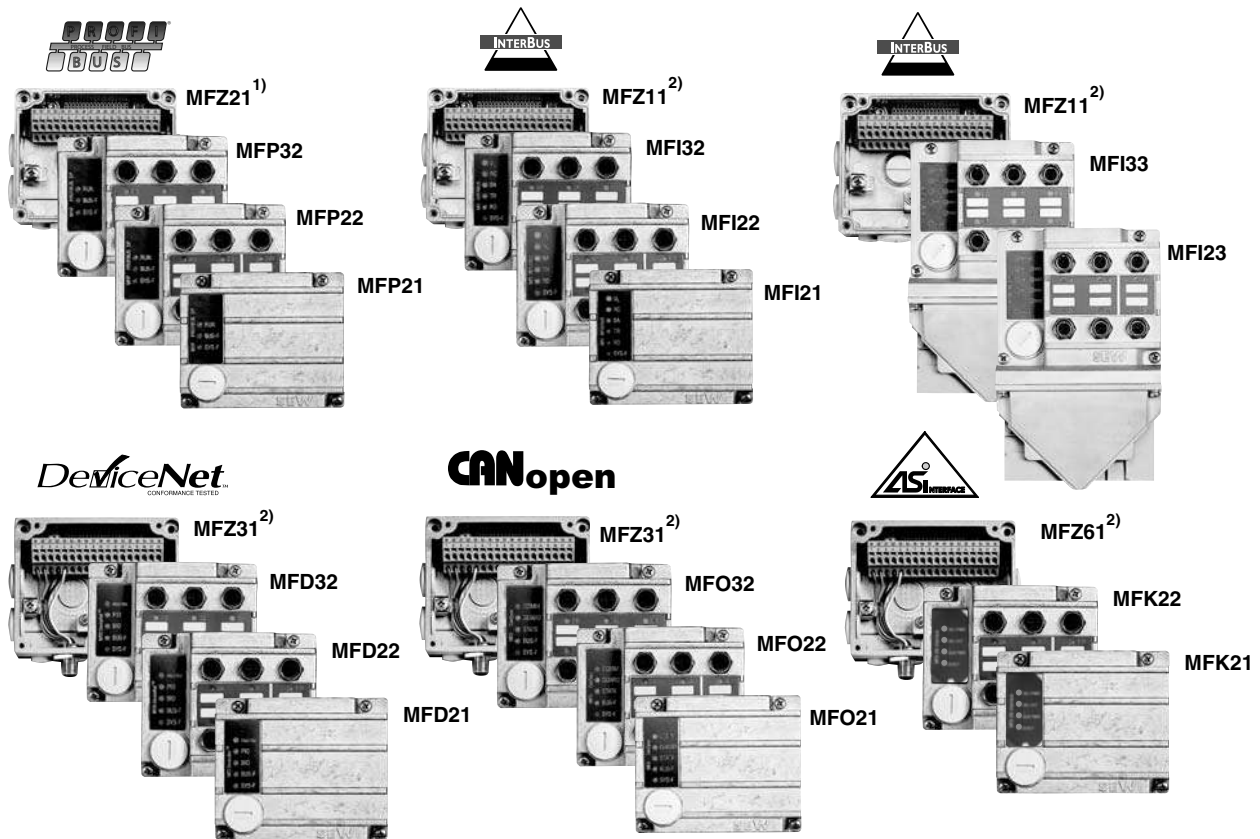


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- [1] Mounting on the drive
 [2] Installation in the field
 [3] Installation in the field distributor (for detailed information on field distributors, refer to the "Drive System for Decentralized Installation" catalog)



MF../Z.1 fieldbus interfaces



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Figure 21: MF../Z.1 fieldbus interfaces

- 1 Red terminal imprint
- 2 Black terminal imprint

Variants

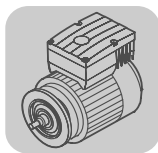


Module type	MFP21D	MFP22D	MFP32D
Part number	823 624 0	823 625 9	823 626 7
Connection technology Sensors / actuators	Terminals	M12 and terminals	M12 and terminals
Digital inputs	4	4	6
Digital outputs	2	2	0
Associated module terminal box Part number	MFZ21D 823 627 5	MFZ21D/AVT2/AWT2 824 299 2	
Fieldbus connection technology	Terminals	M12 plug connector	
Module + module carrier	MFP21D/Z21D..	MFP22D/Z21D..	MFP32D/Z21D..

Variants



Module type	MFI21A	MFI22A	MFI32A
Part number	823 526 0	823 527 9	823 528 7
Connection technology Sensors / actuators	Terminals	M12 and terminals	M12 and terminals
Digital inputs	4	4	6
Digital outputs	2	2	0
Associated module terminal box Part number	MFZ11A 823 514 7		
Fieldbus connection technology	Terminals		
Module + module carrier	MFI21A/Z11A	MFI22A/Z11A	MFI32A/Z11A



Technical Data and Dimension Sheets for MOVIMOT® Fieldbus interfaces

Variants with fiber



optic cable and
Rugged Line
connector
(Phoenix Contact)

Module type Part number	MFI23F 824 335 2	MFI33F 824 336 0
Connection technology Fieldbus Sensors / actuators	FO (via Rugged Line connector) M12 and terminals	
Digital inputs	4	6
Digital outputs	2	0
Associated module terminal box Part number	MFZ11A 823 514 7	
Module + module carrier	MFI23F/Z11A	MFI33F/Z11A

Variants



Module type Part number	MFD21A 823 551 1	MFD22A 823,552 X	MFD32A 823 553 8
Connection technology Sensors / actuators	Terminals	M12 and terminals	M12 and terminals
Digital inputs	4	4	6
Digital outputs	2	2	0
Associated module terminal box Part number Fieldbus connection technology	MFZ31A 823 548 1 Micro-style connector		
Module + module carrier	MFD21A/Z31A	MFD22A/Z31A	MFD32A/Z31A

Variants

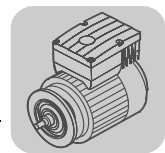


Module type Part number	MFO21A 823 957 6	MFO22A 823 958 4	MFO32A 823 959 2
Connection technology Sensors / actuators	Terminals	M12 and terminals	M12 and terminals
Digital inputs	4	4	6
Digital outputs	2	2	0
Associated module terminal box Part number Fieldbus connection technology	MFZ31A 823 548 1 M12 plug connector		
Module + module carrier	MFO21A/Z31A	MFO22A/Z31A	MFO32A/Z31A

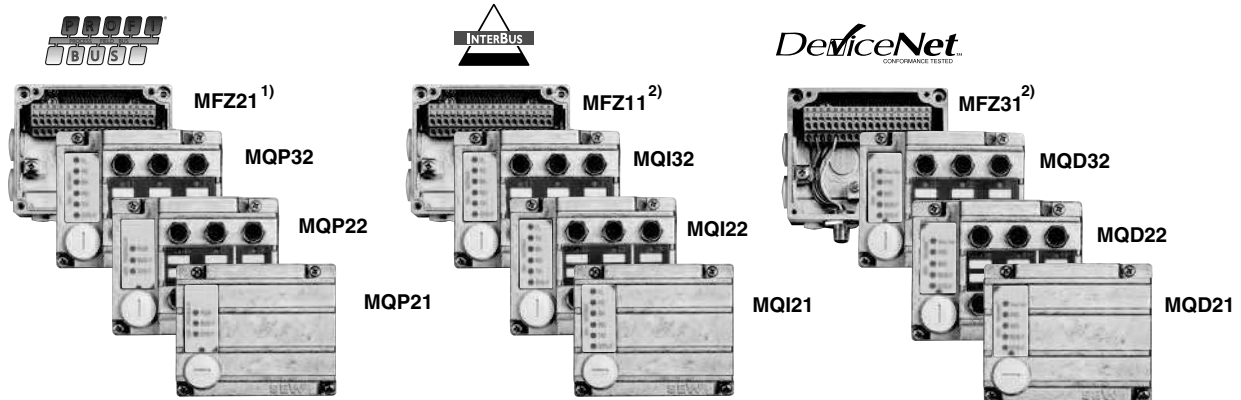
Variants



Module type Part number	MFK21A 824 537 1	MFK22A 824 539 8
Connection technology Sensors / actuators	Terminals	M12 and terminals
Digital inputs	4	4
Digital outputs	2	2
Associated module terminal box Part number Conection technology AS-interface	MFZ61A 824 574 6 M12 plug connector	
Module + module carrier	MFK21A/Z61A	MFK22A/Z61A



MQ../Z.1 fieldbus interfaces



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Figure 22: MQ../Z.1 fieldbus interfaces

- 1) Red terminal imprint
- 2) Black terminal imprint

Variants



Module type	MQP21D	MQP22D	MQP32D
Part number	824 190 2	824 191 0	824 192 9
Connection technology Sensors / actuators	Terminals	M12 and terminals	M12 and terminals
Digital inputs	4	4	6
Digital outputs	2	2	0
Associated module terminal box Part number	MFZ21D 823 627 5	MFZ21D/AVT2/AWT2 824 299 2	
Fieldbus connection technology	Terminals	M12 plug connector	
Module + module carrier	MQP21D/Z21D..	MQP22D/Z21D..	MQP32D/Z21D..

Variants

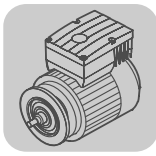


Module type	MQI21A	MQI22A	MQI32A
Part number	824 203 8	824 204 6	824 205 4
Connection technology Sensors / actuators	Terminals	M12 and terminals	M12 and terminals
Digital inputs	4	4	6
Digital outputs	2	2	0
Associated module terminal box Part number	MFZ11A 823 514 7		
Fieldbus connection technology	Terminals		
Module + module carrier	MQI21A/Z11A	MQI22A/Z11A	MQI32A/Z11A

Variants



Module type	MQD21A	MQD22A	MQD32A
Part number	824 200 3	824 201 1	824,202 X
Connection technology Sensors / actuators	Terminals	M12 and terminals	M12 and terminals
Digital inputs	4	4	6
Digital outputs	2	2	0
Associated module terminal box Part number	MFZ31A 823 548 1		
Fieldbus connection technology	Micro-style connector		
Module + module carrier	MQD21A/Z31A	MQD22A/Z31A	MQD32A/Z31A



Dimension drawing MF../Z.1, MQ../Z.1 fieldbus interfaces

Dimension drawing
MF.. / MQ..
fieldbus interface

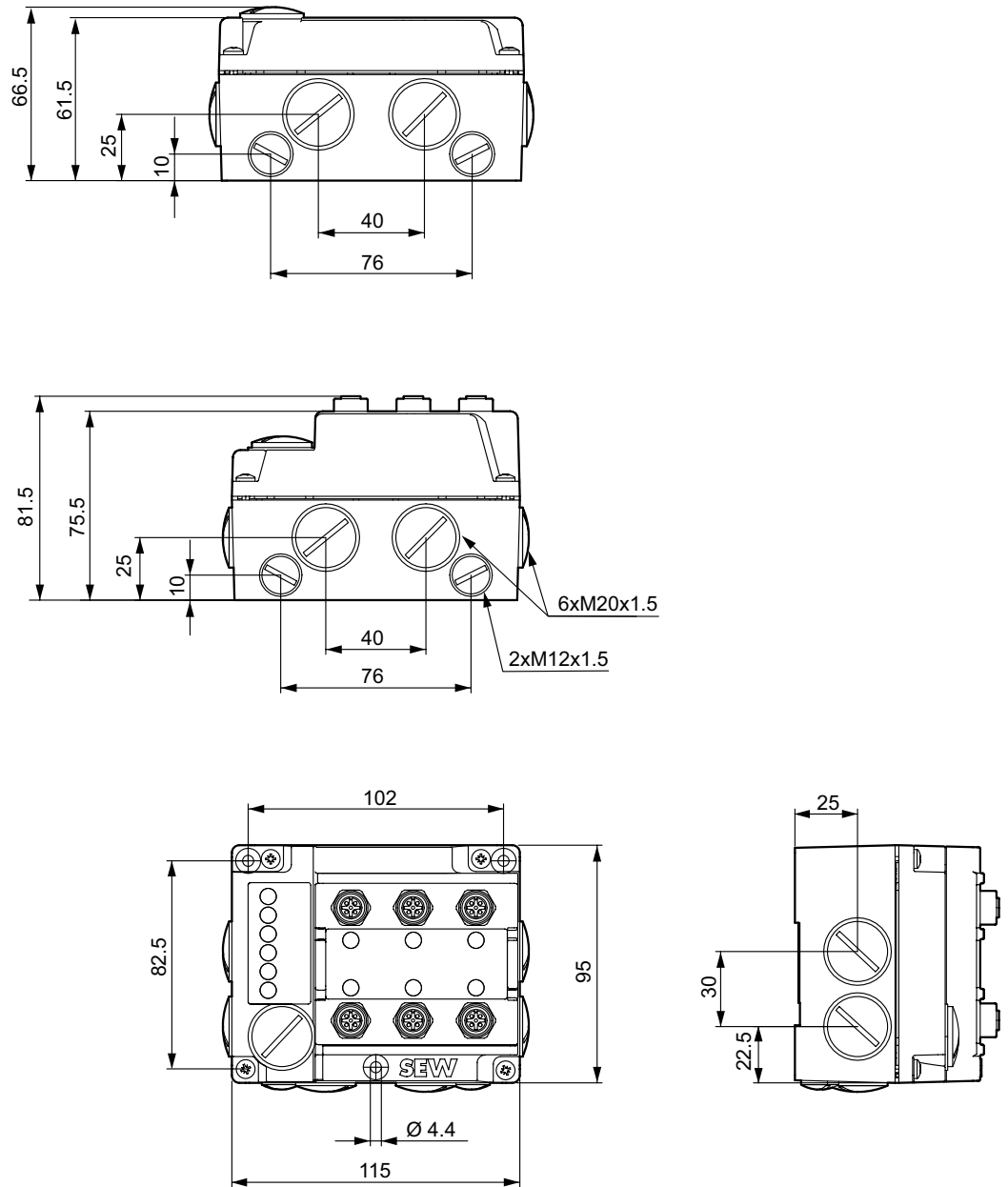
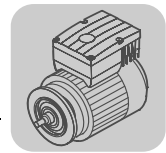


Figure 23: Dimension sheet fieldbus interfaces MF.. / MQ..

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Dimension drawing
MFI23 / MFI33
fieldbus interface
with Rugged-Line
connection

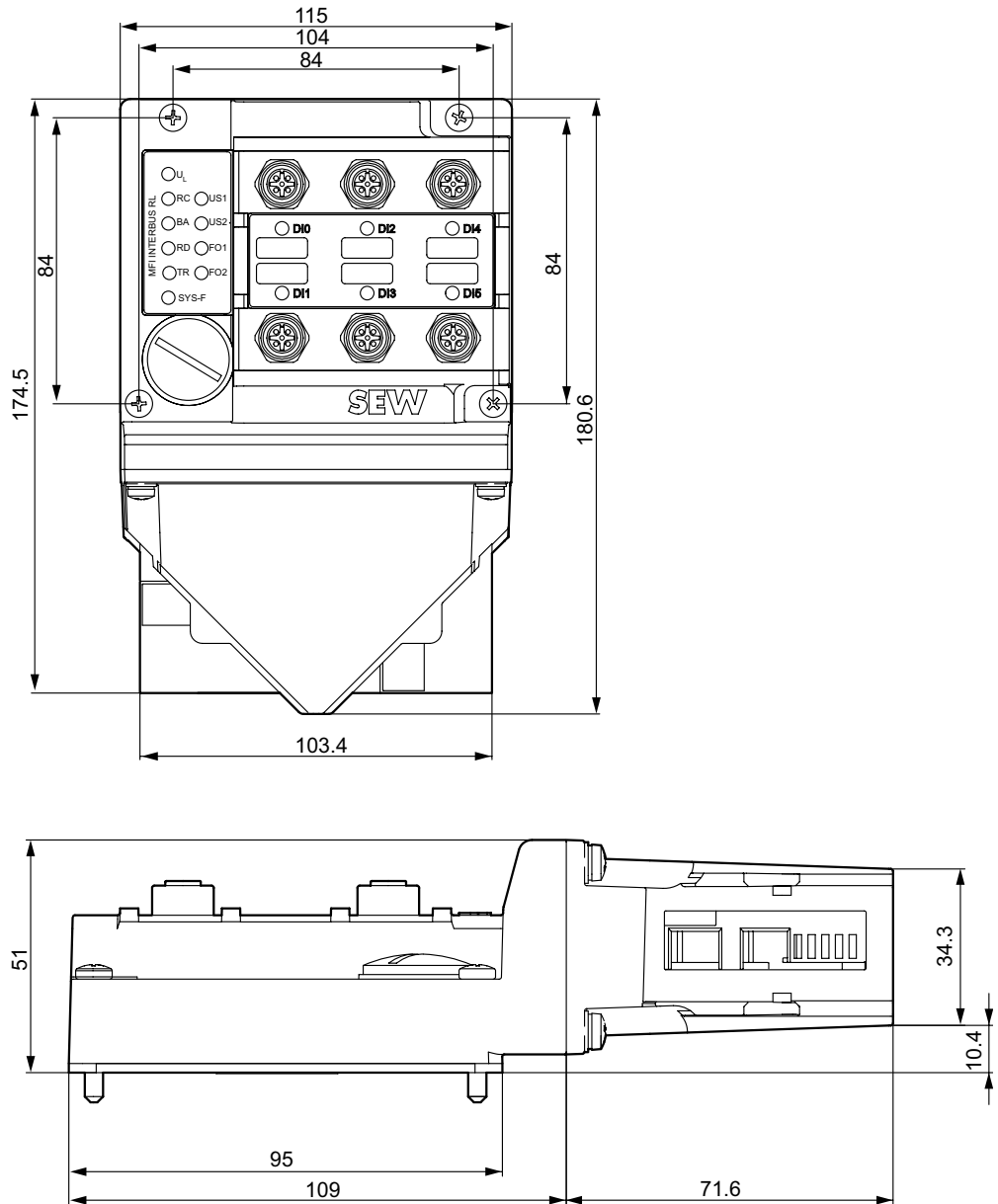
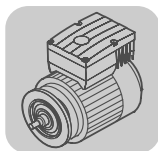


Figure 24: Dimension drawing MFI23 / MFI33 fieldbus interface with Rugged-Line connection 52756AXX



Fieldbus interface options

MFG11A Keypad

The MFG11A keypad is plugged onto a MFZ.. connection module (not included in the scope of delivery) instead of a fieldbus interface for manual control of a MOVIMOT® drive.

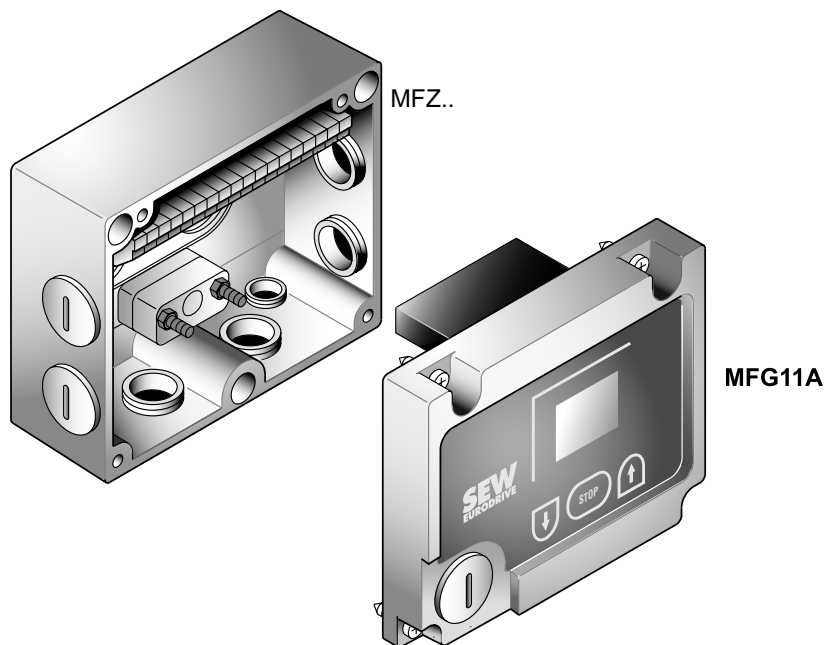
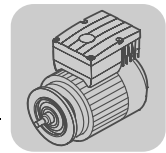


Figure 25: MFG11A keypad

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Technical data:

Option MFG11A	
Part number	823 559 7
Input voltage	DC 24 V ± 25 %
Current consumption	approx. 70 mA
Setpoint resolution	1 %
Serial interface	RS-485 for connecting max. 31 MOVIMOT® inverters (max. 200 m, 9600 baud)
Degree of protection	IP65 (MFG11A installed on MFZ.. connection module)
Ambient temperature	-15...60° C



Bus diagnostics options

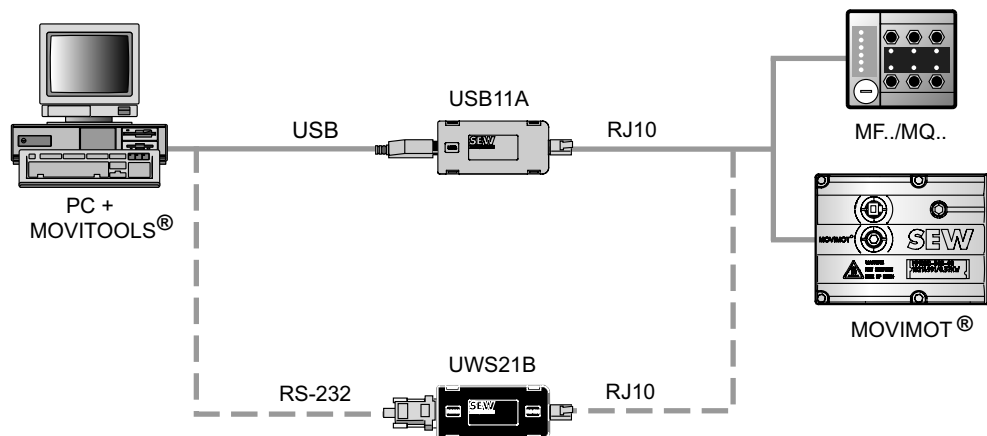
Functional description:

MF../MQ.. fieldbus modules are equipped with a diagnostics interface for startup and service. This interface allows for bus diagnostics with the SEW software MOVITOOLS® MotionStudio.

Interface adapter

The diagnostic interface can be connected to a PC using one of the following options:

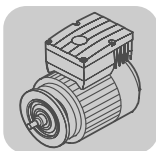
- USB11A with USB interface, part number 0 824 831 1
- UWS21B with serial interface RS-232, part number 1 820 456 2



63371axx

Scope of delivery:

- Interface adapter
- Cable with RJ10 plug connector
- Interface cable USB (USB11A) or RS-232 (UWS21B)



15 Abbreviation Key and Index

15.1 Abbreviation key

a, b, f	Constants for converting overhung loads	[mm]
c	Constant for converting overhung load	[Nmm]
cos φ	Power factor of the motor	
F_A	Axial force acting on the output shaft	[N]
f_B	Service factor	
f_{supply}	Mains frequency	[Hz]
F_R	Overhung load on the output shaft	[N]
f_T, f_H	Power reduction factors of the motor	
f_Z	Transmission element factor for calculating the overhung load	
H	Installation altitude	[m ü. NN]
η	Forward efficiency	
η'	Back-driving efficiency	
$\eta_{75\%}/\eta_{100\%}$	Motor efficiency at 75%/100% rated load	
I_A/I_N	Ratio of starting current/rated motor current	
I_N	Rated current	[A]
IP..	Degree of protection	
i_{tot}	Gear ratios in total	
i_{sch}	Gear ratio of the worm gear stage	
ϑ_{amb}	Ambient temperature	[°C]
J_{Last}	Mass moment of inertia to be driven	[10 ⁻⁴ kgm ²]
J_{Mot}	Mass moment of inertia of the motor	[10 ⁻⁴ kgm ²]
J_X	Mass moment of inertia reduced to the motor shaft	[10 ⁻⁴ kgm ²]
J_Z	Mass moment of inertia of the heavy fan	[10 ⁻⁴ kgm ²]
M_a	Output torque	[Nm]
M_B	Braking torque	[Nm]
M_H/M_N	Ratio acceleration torque/rated motor torque	
M_A/M_N	Ratio starting torque/rated motor torque	
n_a	Output speed	[rpm]
n_e	Input speed	[rpm]
n_M	Motor speed	[rpm]
n_N	Rated speed	[rpm]
P_a	Output power	[kW]
P_e	Mathematical input power of the gear unit	[kW]
P_N	Rated power	[kW]
S.., %ED	Duty cycle and cyclic duration factor cdf	
T	Cycle duration	[min]
t1	Response time of the motor brake	[10 ⁻³ s]
t2	Motor brake application time	[10 ⁻³ s]
U_{Bremse}	Operating voltage of the brake	[V]
U_{Mot}	Operating voltage of the motor	[V]
Z	Starting frequency	[1/h], [c/h]
Z_0	No-load starting frequency	[1/h], [c/h]



A			
AC motors			
<i>Mounting position designations</i>	.....	79	
Additional documentation	.....	33	
Anti-friction bearing greases	.....	80	
Assembling gear units			
<i>using SEW installation/removal kit</i>	.....	89	
Assembling the gear unit			
<i>Supplied fastening parts</i>	.....	87	
Available MOVIMOT® motor combinations	.....	383	
Axial forces	.....	42	
B			
BEM	.....	394	
BES	.....	395	
Brake rectifier	.....	394, 395	
Brakemotors	.....	13	
Bus diagnostics	.....	449	
C			
Churning losses	.....	37, 55	
Condition monitoring			
<i>Product Description</i>	.....	16	
<i>Project planning</i>	.....	49	
<i>Technical data</i>	.....	108	
Connection options	.....	21	
Connection technology			
<i>MOVIMOT® standard design</i>	.....	389	
Corrosion protection	.....	14	
Covers, fixed	.....	106	
D			
Designs, possible			
<i>Brakemotors</i>	.....	13	
<i>for international markets</i>	.....	13	
<i>reduced backlash</i>	.....	12	
<i>RM gearmotors</i>	.....	12	
<i>Spiroplan® gearmotors</i>	.....	12	
Diagnostic unit			
<i>DUV10A Vibration Sensor</i>	.....	16, 49, 110	
<i>Oil aging sensor DUO10A</i>	.....	16, 49, 108	
Dimension sheets			
<i>Helical-bevel gearmotors</i>	.....	275	
Dimension sheets			
<i>Fieldbus interfaces</i>	.....	446	
<i>Helical gearmotors</i>	.....	145	
<i>Helical-worm gearmotors</i>	.....	333	
<i>MOVIMOT® AC motors</i>	.....	407	
<i>Parallel shaft helical gearmotors</i>	.....	212	
<i>Spiroplan® gearmotors</i>	.....	372	
Documentation, additional	.....	9	
Drive selection			
<i>Required data</i>	.....	34	
E			
Efficiency of SEW gear units	.....	36	
Encoder	.....	21	
Extended storage, gear unit	.....	15	
External braking resistors	.....	395, 402	
F			
Fastening, gear units	.....	102	
Fieldbus interfaces	.....	442	
<i>Dimension sheets</i>	.....	446	
<i>Functional description</i>	.....	442	
<i>MF../Z.1 fieldbus interfaces</i>	.....	443	
<i>MQ../Z.1 fieldbus interfaces</i>	.....	445	
<i>Options</i>	.....	448	
Flange contours FAF.., KAF.., SAF..			
and WAF..	.....	105	
Flange contours FF.., KF.., SF.. and WF..	.....	104	
Flange contours RF.. and R..F	.....	103	
G			
Gear unit			
<i>Extended storage</i>	.....	15	
<i>Project planning</i>	.....	36	
<i>Unit designation</i>	.....	17	
Gear unit mounting	.....	102	
Gearmotor dimension sheets			
<i>Notes</i>	.....	113	
General information	.....	11	
H			
Helical gear units Unit designation	.....	17	
Helical gearmotors			
<i>Dimension sheets</i>	.....	145	
<i>Selection tables</i>	.....	118	
<i>Structure of the selection tables</i>	.....	112	
<i>Versions</i>	.....	24	
Helical-bevel gear units			
<i>Unit designation</i>	.....	18	
Helical-bevel gearmotors			
<i>Dimension sheets</i>	.....	275	
<i>Mounting positions</i>	.....	64	
<i>Selection tables</i>	.....	259	
<i>Structure of the selection tables</i>	.....	112	
<i>Versions</i>	.....	27	
Helical-worm gear units Unit designation	.....	18	
Helical-worm gearmotors			
<i>Dimension sheets</i>	.....	333	
<i>Mounting positions</i>	.....	67	
<i>Selection tables</i>	.....	317	
<i>Structure of the selection tables</i>	.....	112	
<i>Versions</i>	.....	29	
Hollow shaft mounting system, TorqLOC®	.....	93	
Hollow shaft, shouldered with shrink disc	.....	95	
I			
International markets	.....	13	
L			
Lubricants			
<i>Anti-friction bearing greases</i>	.....	80	
<i>General information</i>	.....	80	
<i>Lubricant fill quantities</i>	.....	82	



<i>Lubricant table</i>	81	Overhung loads	42
M		P	
MFG11A	448	Parallel shaft helical gear units	
MLU13A	396	<i>Unit designation</i>	17
MNF11A	396	Parallel shaft helical gearmotors	
Mounting position designation		<i>Dimension sheets</i>	212
6 mounting positions M1-M6	50	<i>Mounting positions</i>	61
Mounting positions	50	<i>Selection tables</i>	191
AC motors	79	<i>Structure of the selection tables</i>	112
Churning losses	37, 55	<i>Versions</i>	25
Helical gearmotors	56	Product description, general information	11
Helical-bevel gearmotors	64	Product groups	7
Helical-worm gearmotors	67	PROFIBUS	443, 445
Key to the mounting position sheets	55	Project planning for drives	
Parallel shaft helical gearmotors	61	<i>Additional documentation</i>	33
Spiroplan® gearmotors	73	<i>Data for drive selection</i>	34
MOVIMOT® AC motors		<i>Procedure</i>	35
Available combinations	383	Project planning for gear units	
Connection technology standard design	389	Churning losses	37
Dimension sheets	407	Efficiency of SEW gear units	36
Motor data	383	Force application, definition	43
Options	394	Oil expansion tank	38
Order example	393	Overhung and axial loads	42
Retrofit kits	404	Overhung load conversion	44
MOVIMOT® retrofit kits	404	Overhung load conversion, gear	
MWS21A	449	unit constants	45
O		Permitted axial force	43
Oil aging sensor		Permitted overhung load	42
<i>Technical data and part numbers</i>	108	RM gear units	46
Oil expansion tank	38	Self-locking	36
Options		Service factor	39
External braking resistors	402	Project planning for RM gear units	46
Factory installed	403	Project planning procedure	35
Internal braking resistors	402	R	
Keypad DBG	401	Reduced backlash gear units	12
MWA21A setpoint converter	400	Removing gear units	
Setpoint potentiometer MBG11A	399	<i>using SEW installation/removal kit</i>	91
Speed control module MLG.1A	398	Retrofit sets	404
Unit designation	19	RM gearmotors	12
Voltage supply MLU.1A	397	S	
Options, integrated	394	Selection tables	
Brake control BEM	394	Helical gearmotors	118
Brake control BES	395	Helical-bevel gearmotors	259
internal voltage relay MLU13A	396	Helical-worm gearmotors	317
Line filter MNF11A	396	Parallel shaft helical gearmotors	191
Voltage relay URM	395	Spiroplan® gearmotors	368
Order example	393	Structure of the selection tables	112
Order information		Self-locking	36
Examples	54	Service factor	
Output direction of rotation with backstop	51	Additional service factor	41
Position motor terminal box and cable entry	53	Determining the service factor	39
Position of output end in right-angle gear		SEW service factor fB	40
units	52	SEW-EURODRIVE	
Position of the output shaft and		group of companies	6
output flange	51	Products	7



Systems	7	URM	395
Spiroplan® gear units		V	
<i>Unit designation</i>	19	Vibration sensor	
Spiroplan® gearmotors	12	<i>Technical data and part numbers</i>	110
<i>Dimension sheets</i>	372	Voltage relay	395
<i>Mounting positions</i>	73		
<i>Selection tables</i>	368		
<i>Structure of the selection tables</i>	112		
<i>Versions</i>	31		
Structure of the selection tables	112		
Surface protection	14		
T			
Technical data			
<i>Brake control BEM</i>	394		
<i>Brake control BES</i>	395		
<i>External braking resistors</i>	402		
<i>Internal braking resistors</i>	402		
<i>internal voltage supply MLU13A</i>	396		
<i>Keypad DBG</i>	401		
<i>Line filter MNF11A</i>	396		
<i>MBG11A setpoint potentiometer</i>	399		
<i>MOVIMOT® motor data</i>	383		
<i>MWA21A setpoint converter</i>	400		
<i>Speed control module MLG.1A</i>	398		
<i>Voltage relay URM</i>	395		
<i>Voltage supply MLU.1A</i>	397		
TorqLOC® hollow shaft mounting system	93		
Torque arms			
<i>Available torque arms</i>	102		
Types			
<i>Helical gearmotors</i>	24		
<i>Helical-bevel gearmotors</i>	27		
<i>Helical-worm gearmotors</i>	29		
<i>Parallel shaft helical gearmotors</i>	25		
<i>Spiroplan® gearmotors</i>	31		
U			
Unit designation			
<i>AC motors and options</i>	20		
<i>Condition monitoring</i>	19, 22		
<i>Connection options</i>	21		
<i>Encoder</i>	21		
<i>Example for a DR gearmotor</i>	23		
<i>Gear units and options</i>	17		
<i>Helical gear units</i>	17		
<i>Helical-bevel gear units</i>	18		
<i>Helical-worm gear units</i>	18		
<i>Mechanical installation</i>	21		
<i>Motor series</i>	20		
<i>MOVIMOT® standard design</i>	393		
<i>Options</i>	19		
<i>Other accessories</i>	22		
<i>Output types</i>	20		
<i>Parallel shaft helical gear units</i>	17		
<i>Spiroplan® gear units</i>	19		
<i>Ventilation</i>	21		



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	Brisbane	SEW-EURODRIVE PTY.LTD. 1 /34 Collinsvale St Rocklea, Queensland, 4106	Tel. +61 7 3272-7900 Fax +61 7 3272-7901 enquires@sew-eurodrive.com.au
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	Graz	SEW-EURODRIVE Ges.m.b.H. Grabenstraße 231 A-8045 Graz	Tel. +43 316 685 756-0 Fax +43 316 685 755 tb-graz@sew-eurodrive.at
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Belgium			
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Service Competence Center	Industrial Gears	SEW Caron-Vector S.A. Rue de Parc Industriel, 31 BE-6900 Marche-en-Famenne	Tel. +32 84 219-878 Fax +32 84 219-879 http://www.sew-eurodrive.be service-wallonie@sew-eurodrive.be
Technical Office	Vlaanderen	SEW Caron-Vector S.A. Verlorenbroodstraat, 122, bus 6 B-9820 Merelbeke	Tel. +32 92 1686 25 Fax +32 92 2741 55
Brazil			
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Sales	Douala	Electro-Services Rue Drouot Akwa B.P. 2024 Douala	Tel. +237 33 431137 Fax +237 33 431137
Canada			
Assembly Sales Service	Toronto	SEW-EURODRIVE CO. OF CANADA LTD. 210 Walker Drive Bramalea, Ontario L6T3W1	Tel. +1 905 791-1553 Fax +1 905 791-2999 http://www.sew-eurodrive.ca marketing@sew-eurodrive.ca
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	Montreal	SEW-EURODRIVE CO. OF CANADA LTD. 2555 Rue Leger LaSalle, Quebec H8N 2V9	Tel. +1 514 367-1124 Fax +1 514 367-3677 marketing@sew-eurodrive.ca
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Sales Service	Dublin	Alperton Engineering Ltd. 48 Moyle Road Dublin Industrial Estate Glasnevin, Dublin 11	Tel. +353 1 830-6277 Fax +353 1 830-6458 info@alperton.ie http://www.alperton.ie
Israel			
Sales	Tel-Aviv	Liraz Handasa Ltd. Ahofer Str 34B / 228 58858 Holon	Tel. +972 3 5599511 Fax +972 3 5599512 http://www.liraz-handasa.co.il office@liraz-handasa.co.il
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	Caserta	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Viale Carlo III Km. 23,300 I-81020 S. Nicola la Strada (Caserta)	Tel. +39 0823 219011 Fax +39 0823 421414



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Technical Office	Manila	SEW-EURODRIVE Pte Ltd Manila Liaison Office Suite 110, Ground Floor Comfoods Building Senator Gil Puyat Avenue 1200 Makati City	Tel. +63 2 894275254 Fax +63 2 8942744 sewmla@i-next.net
Poland			
Assembly Sales Service	Lodz	SEW-EURODRIVE Polska Sp.z.o.o. ul. Techniczna 5 PL-92-518 Łódź	Tel. +48 42 67710-90 Fax +48 42 67710-99 http://www.sew-eurodrive.pl sew@sew-eurodrive.pl
		24 Hour Service	Tel. +48 602 739 739 (+48 602 SEW SEW) sewis@sew-eurodrive.pl
Technical Office	Tychy	SEW-EURODRIVE Polska Sp.z.o.o. ul. Nad Jeziorem 87 PL-43-100 Tychy	Tel. +48 32 2175026 + 32 2175027 Fax +48 32 2277910
	Bydgoszcz	SEW-EURODRIVE Polska Sp.z.o.o. ul. Fordońska 246 PL-85-959 Bydgoszcz	Tel. +48 52 3606590 Fax +48 52 3606591
	Poznan	SEW-EURODRIVE Polska Sp.z.o.o. ul. Romana Maya 1 PL-61-371 Poznań	Tel. +48 61 8741640 Fax +48 61 8741641
	Szczecinek	SEW-EURODRIVE Polska Sp.z.o.o. ul. Mickiewicza 2 pok. 36 PL-78-400 Szczecinek	Tel. +48 94 3728820 Fax +48 94 3728821
Portugal			
Assembly Sales Service	Coimbra	SEW-EURODRIVE, LDA. Apartado 15 P-3050-901 Mealhada	Tel. +351 231 20 9670 Fax +351 231 20 3685 http://www.sew-eurodrive.pt infosew@sew-eurodrive.pt
Technical Offices	Lisboa	SEW-EURODRIVE, LDA. Núcleo Empresarial I de São Julião do Tojal Rua de Entremuros, 54 Fracção I P-2660-533 São Julião do Tojal	Tel. +351 21 958-0198 Fax +351 21 958-0245 esc.lisboa@sew-eurodrive.pt
	Porto	SEW-EURODRIVE, LDA. Av. 25 de Abril, 68 4440-502 Valongo	Tel. +351 229 350 383 Fax +351 229 350 384 MobilTel. +351 9 32559110 esc.porto@sew-eurodrive.pt
Romania			
Sales Service	București	Sialco Trading SRL str. Madrid nr.4 011785 Bucuresti	Tel. +40 21 230-1328 Fax +40 21 230-7170 sialco@sialco.ro
Russia			
Assembly Sales Service	St. Petersburg	ZAO SEW-EURODRIVE P.O. Box 36 195220 St. Petersburg Russia	Tel. +7 812 3332522 +7 812 5357142 Fax +7 812 3332523 http://www.sew-eurodrive.ru sew@sew-eurodrive.ru
Technical Office	Yekaterinburg	ZAO SEW-EURODRIVE Kominterna Str. 16 Office 614 RUS-620078 Ekaterinburg	Tel. +7 343 310 3977 Fax +7 343 310 3978 eso@sew-eurodrive.ru



Russia			
	Irkutsk	ZAO SEW-EURODRIVE 5-Armii Str., 31 RUS-664011 Irkutsk	Tel. +7 3952 25 5880 Fax +7 3952 25 5881 iso@sew-eurodrive.ru
	Moskau	ZAO SEW-EURODRIVE RUS-107023 Moskau	Tel. +7 495 9337090 Fax +7 495 9337094 mso@sew-eurodrive.ru
	Novosibirsk	ZAO SEW-EURODRIVE pr. K Marksa, d.30 RUS-630087 Novosibirsk	Tel. +7 383 3350200 Fax +7 383 3462544 nso@sew-eurodrive.ru
	Togliatti	ZAO SEW-EURODRIVE Sportivnaya Str. 4B, office 2 Samarskaya obl. RUS-445057 Togliatti	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@sentoo.sn
Serbia			
Sales	Beograd	DIPAR d.o.o. Ustanicka 128a PC Košum, IV floor SCG-11000 Beograd	Tel. +381 11 347 3244 / +381 11 288 0393 Fax +381 11 347 1337 office@dipar.co.yu
Singapore			
Assembly 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 SK-831 06 Bratislava	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 SK-010 01 Žilina	Tel. +421 41 700 2513 Fax +421 41 700 2514 sew@sew-eurodrive.sk
	Banská Bystrica	SEW-Eurodrive SK s.r.o. Rudlovska cesta 85 SK-974 11 Banská Bystrica	Tel. +421 48 414 6564 Fax +421 48 414 6566 sew@sew-eurodrive.sk
	Košice	SEW-Eurodrive SK s.r.o. Slovenská ulica 26 SK-040 01 Košice	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 SLO - 3000 Celje	Tel. +386 3 490 83-20 Fax +386 3 490 83-21 pakman@siol.net



Address Directory

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	Capetown	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town P.O.Box 36556 Chempet 7442 Cape Town	Tel. +27 21 552-9820 Fax +27 21 552-9830 Telex 576 062 dswanepoel@sew.co.za
	Durban	SEW-EURODRIVE (PROPRIETARY) LIMITED 2 Monaceo Place Pinetown Durban P.O. Box 10433, Ashwood 3605	Tel. +27 31 700-3451 Fax +27 31 700-3847 dtait@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
	Richards Bay	SEW-EURODRIVE PTY LTD. 25 Eagle Industrial Park Alton Richards Bay P.O. Box 458 Richards Bay 3900	Tel. +27 35 797-3805 Fax +27 35 797-3819 dtait@sew.co.za
Spain			
Assembly Sales Service	Bilbao	SEW-EURODRIVE ESPAÑA, S.L. Parque Tecnológico, Edificio, 302 E-48170 Zamudio (Vizcaya)	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 Avenida Francesc Maciá 40-44 Oficina 4.2 E-08208 Sabadell (Barcelona)	Tel. +34 93 7162200 Fax +34 93 7233007
Lugo		Delegación Noroeste Apartado, 1003 E-27080 Lugo	Tel. +34 639 403348 Fax +34 982 202934
Madrid		Delegación Madrid Gran Vía. 48-2° A-D E-28220 Majadahonda (Madrid)	Tel. +34 91 6342250 Fax +34 91 6340899
Seville		MEB Pólogono Calonge, C/A Nave 2 - C E-41.077 Sevilla	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
Sweden			
Assembly Sales Service	Jönköping	SEW-EURODRIVE AB Gnejsvägen 6-8 S-55303 Jönköping Box 3100 S-55003 Jönköping	Tel. +46 36 3442 00 Fax +46 36 3442 80 http://www.sew-eurodrive.se info@sew-eurodrive.se
Technical Offices	Göteborg	SEW-EURODRIVE AB Gustaf Werners gata 8 S-42132 Västra Frölunda	Tel. +46 31 70968 80 Fax +46 31 70968 93
	Malmö	SEW-EURODRIVE AB Borrgatan 5 S-21124 Malmö	Tel. +46 40 68064 80 Fax +46 40 68064 93
	Stockholm	SEW-EURODRIVE AB Björkholmsvägen 10 S-14146 Huddinge	Tel. +46 8 44986 80 Fax +46 8 44986 93
	Skellefteå	SEW-EURODRIVE AB Trädgårdsgatan 8 S-93131 Skellefteå	Tel. +46 910 7153 80 Fax +46 910 7153 93
Switzerland			
Assembly 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	Rhaetian Switzerland	André Gerber Es Perreyres CH-1436 Chamblon	Tel. +41 24 445 3850 Fax +41 24 445 4887
	Bern / Solothurn	Rudolf Bühler Muntersweg 5 CH-2540 Grenchen	Tel. +41 32 652 2339 Fax +41 32 652 2331
	Central Switzerland and Ticino	Beat Lütolf Baumacher 11 CH-6244 Nebikon	Tel. +41 62 756 4780 Fax +41 62 756 4786
	Zürich	René Rothenbühler Nörgelbach 7 CH-8493 Saland	Tel. +41 52 386 3150 Fax +41 52 386 3213
	Bodensee and East Switzerland	Markus Künzle Eichweg 4 CH-9403 Goldach	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	Tel. +886 2 27383535 Fax +886 2 27368268 Telex 27 245 sewtwn@ms63.hinet.net



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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
	Hadyai	SEW-EURODRIVE (Thailand) Ltd. Hadyai Country Home Condominium 59/101 Soi.17/1 Rachas-Utid Road. Hadyai, Songkhla 90110	Tel. +66 74 359441 Fax +66 74 359442 sewthailand@sew-eurodrive.com
	Khonkaen	SEW-EURODRIVE (Thailand) Ltd. 4th Floor, Kaow-U-HA MOTOR Bldg, 359/2, Mitraphab Road. Muang District Khonkaen 40000	Tel. +66 43 225745 Fax +66 43 324871 sew-thailand@sew-eurodrive.com
Tunisia			
Sales	Tunis	T. M.S. Technic Marketing Service 5, Rue El Houdaibiah 1000 Tunis	Tel. +216 71 4340-64 + 71 4320-29 Fax +216 71 4329-76 tms@tms.com.tn
Turkey			
Assembly Sales Service	Istanbul	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Bagdat Cad. Koruma Cikmazi No. 3 TR-34846 Maltepe ISTANBUL	Tel. +90 216 4419164, 3838014, 3738015 Fax +90 216 3055867 http://www.sew-eurodrive.com.tr sew@sew-eurodrive.com.tr
Technical Offices	Adana	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Kizilay Caddesi 8 Sokak No 6 Dađtekin Is Merkezi Kat 4 Daire 2 TR-01170 SEYHAN / ADANA	Tel. +90 322 359 94 15 Fax +90 322 359 94 16
	Ankara	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Özcelik Is Merkezi, 14. Sok, No. 4/42 TR-06370 Ostim/Ankara	Tel. +90 312 3853390 / +90 312 3544715 / +90 312 3546109 Fax +90 312 3853258
	Bursa	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Besevler Küçük Sanayi Parkoop Parçacilar Sitesi 48. Sokak No. 47 TR Nilüfer/Bursa	Tel. +90 224 443 4556 Fax +90 224 443 4558
	Izmir	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. 1203/11 Sok. No. 4/613 Hasan Atli Is Merkezi TR-35110 Yenisehir-Izmir	Tel. +90 232 4696264 Fax +90 232 4336105
Ukraine			
Sales Service	Dnepropetrovsk	SEW-EURODRIVE Str. Rabochaja 23-B, Office 409 49008 Dnepropetrovsk	Tel. +380 56 370 3211 Fax +380 56 372 2078 http://www.sew-eurodrive.ua sew@sew-eurodrive.ua

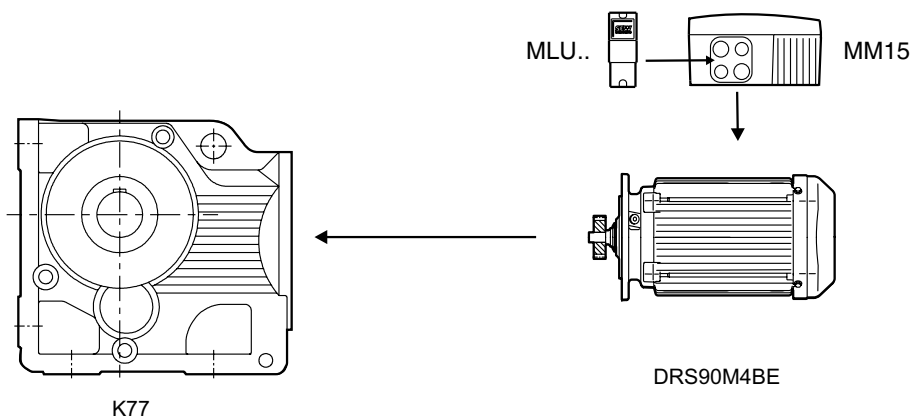
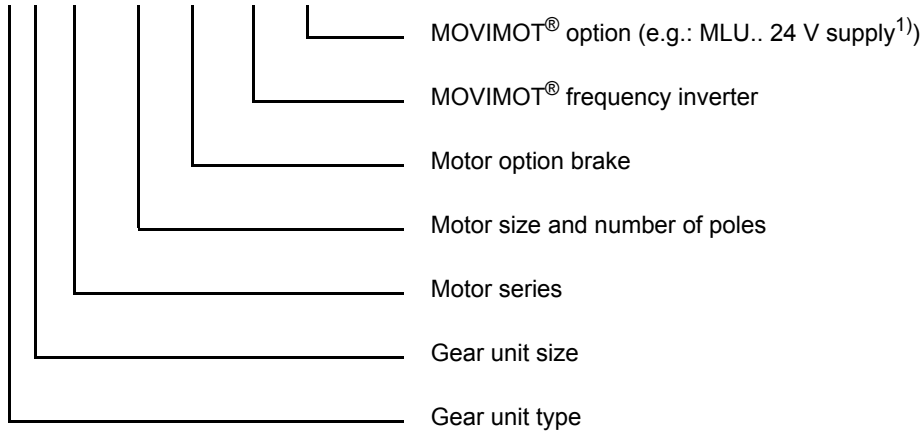


Ukraine			
Sales	Kiev	SEW-EURODRIVE GmbH S. Oleynika str. 21 02068 Kiev	Tel. +380 44 503 95 77 Fax +380 44 503 95 78 kso@sew-eurodrive.ua
	Donetsk	SEW-EURODRIVE GmbH 25th anniversary of RKKA av. 1-B, of. 805 Donetsk 83000	Tel. +380 62 38 80 545 Fax +380 62 38 80 533 dso@sew-eurodrive.ua
Uruguay			
Sales	Montevideo	SEW-EURODRIVE Uruguay, S. A. German Barbato 1526 CP 11200 Montevideo	Tel. +598 2 90181-89 Fax +598 2 90181-88 sewuy@sew-eurodrive.com.uy
USA			
Production Assembly Sales Service Cooperate Offices	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
Assembly Sales Service	Northeast Region	SEW-EURODRIVE INC. Pureland Ind. Complex 2107 High Hill Road, P.O. Box 481 Bridgeport, New Jersey 08014	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	Tel. +1 937 335-0036 Fax +1 937 440-3799 cstroy@seweurodrive.com
	Southwest Region	SEW-EURODRIVE INC. 3950 Platinum Way Dallas, Texas 75237	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	Tel. +1 510 487-3560 Fax +1 510 487-6433 cshayward@seweurodrive.com
Additional addresses for service in the USA provided on request!			
Venezuela			
Assembly Sales Service	Valencia	SEW-EURODRIVE Venezuela S.A. Av. Norte Sur No. 3, Galpon 84-319 Zona Industrial Municipal Norte Valencia, Estado Carabobo	Tel. +58 241 832-9804 Fax +58 241 838-6275 http://www.sew-eurodrive.com.ve ventas@sew-eurodrive.com.ve sewfinanzas@cantv.net

Order information for AC gearmotors

The following example shows the technical information required for placing an order for AC gearmotors. The data in the order has to be given starting from the output side of the unit.

K 77 DRS 90M4 BE/MM15/MO



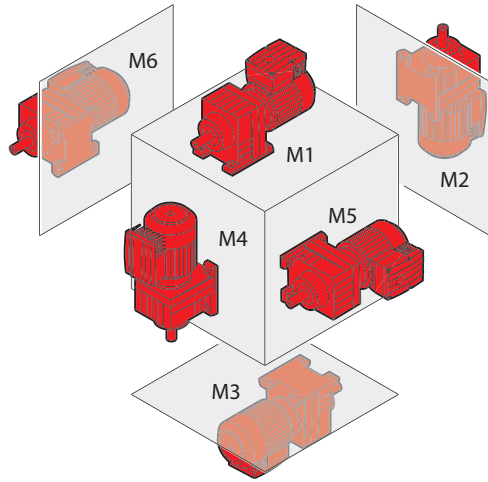
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¹⁾ Only options installed at the factory are listed on the nameplate

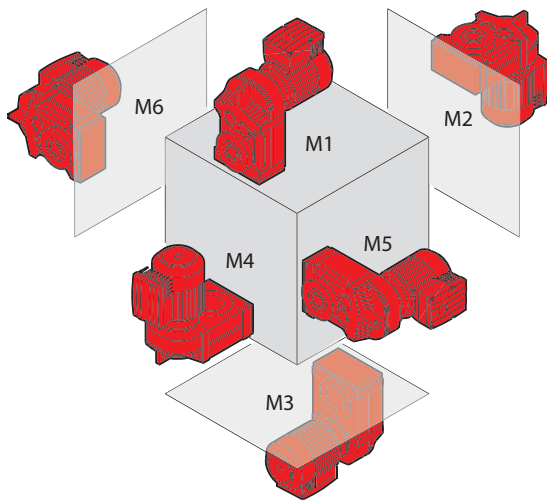
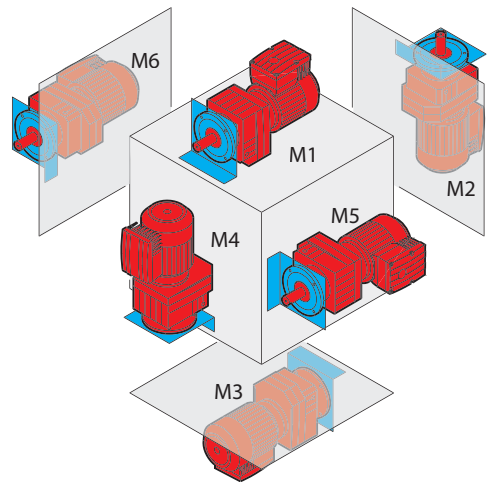
The following data is also required depending on the gear unit series and gear unit type:

Type (examples)	Mounting position	Shaft position	Flange position	Position of MOVIMOT® inverter	Direction of output rotation
K47 DRS71M4/MM07/RS	M2	A	-	0°	CW
SF77 DRS90L4/MM22	M6	AB	AB	90°	-
KA97 DRE100LC4/MM40	M4	B	-	270°	-
KH107 DRE132S4/MM40	M1	A	-	180°	-
WF20 DRS71S4/MM03	-	A	A	0°	-

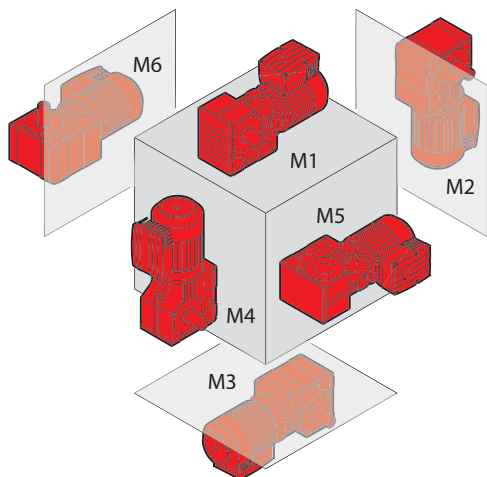
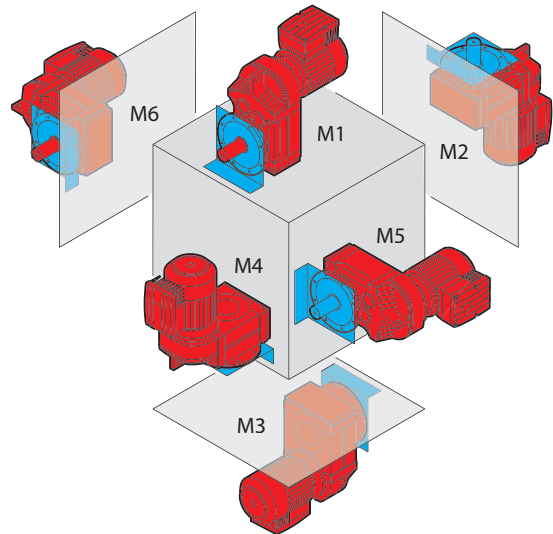
Overview of mounting positions*



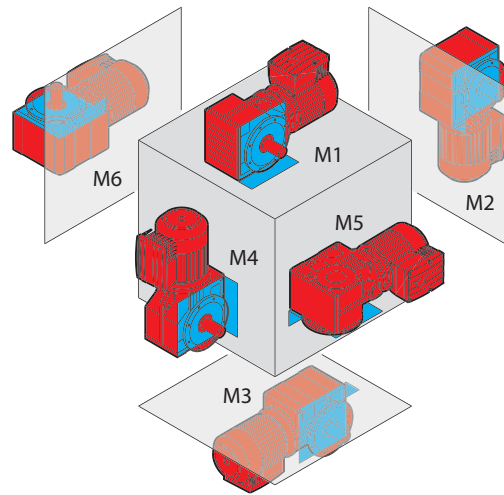
R..



F..



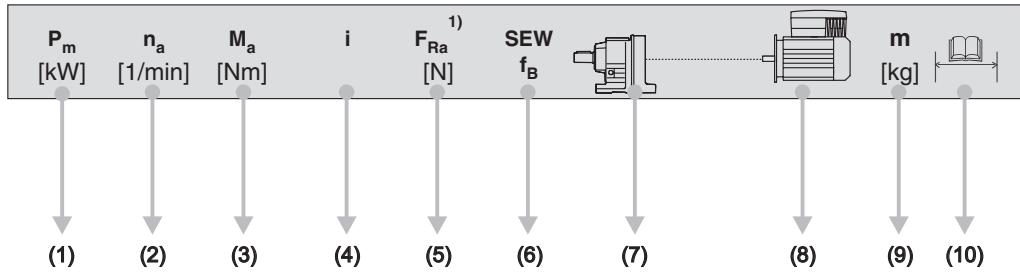
K..
S..
W..



* Detailed information on the mounting positions for SEW gearmotors can be found inside the catalog.

50203AXX

Selection table structure



63854AXX

- (1) Rated power driving motor
- (2) Output speed
- (3) Output torque
- (4) Gear unit ratio
- (5) Permitted overhung load output side
- (6) Service factor
- (7) Gear unit type
- (8) Motor type
- (9) Weight
- (10) Dimension sheet page number

* Finite gear unit reduction ratio

- 1) Overhung load for foot-mounted gear units with solid shaft, overhung loads for other gear unit types upon request

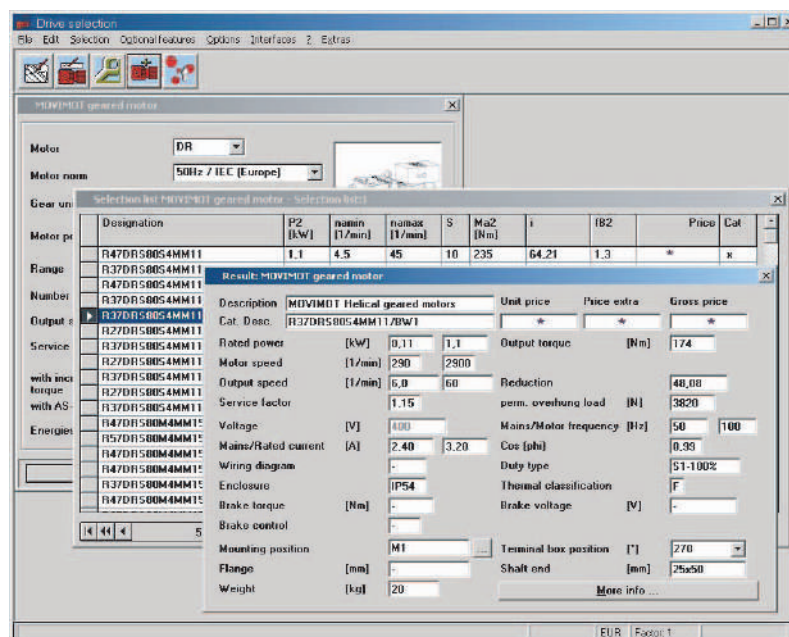
Notes on the dimension sheets for gearmotors

Scope of delivery	
	= Standard parts delivered by SEW.
	= Standard parts not delivered by SEW.

Multiple-spline shafts	
D_m	= Measuring roller diameter
M_e	= Test dimension

Drive selection using the electronic catalog from SEW-EURODRIVE

SEW-EURODRIVE provides an electronic catalog in the SEW Workbench for convenient selection of drive components. You enter the required data for selecting the drive in a menu-guided process and obtain a drive selection as result.



63435axx

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