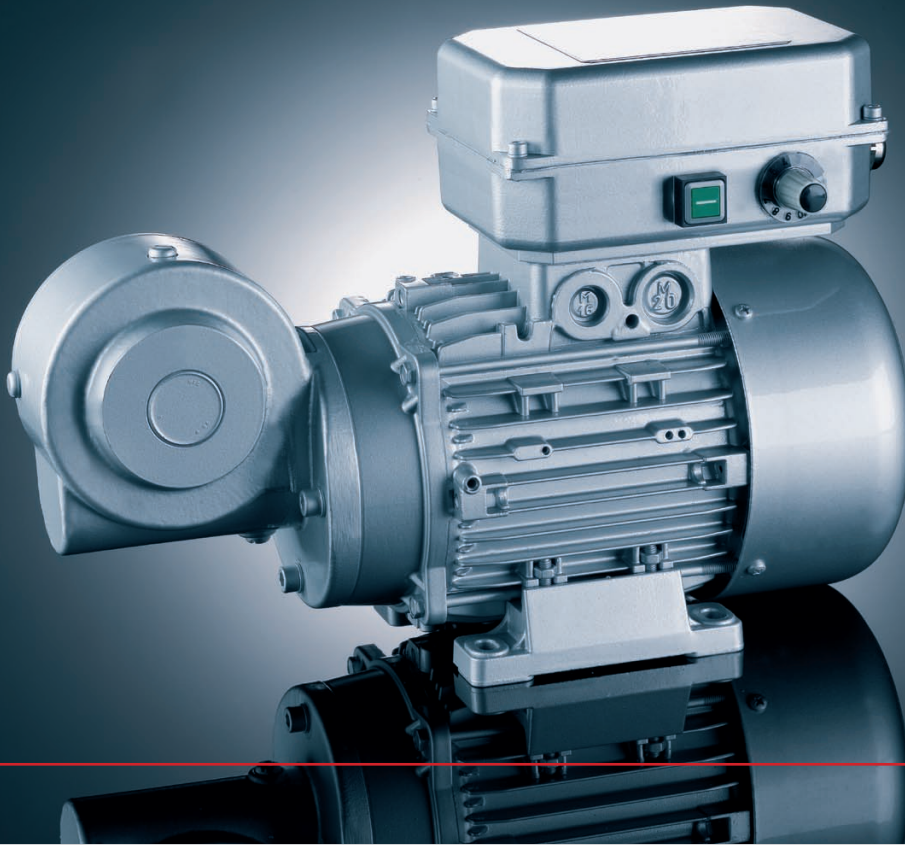


SN 9



Spotlights

- No screened motor cables
- Low power dissipation and voltage stress caused by internal cabling
- No problems with interference
- Space and cost-saving
- Can be retrofitted onto existing drive motors

The compact complete package: Three-phase motors with permanently attached frequency converters

Three-phase motors with an output of up to 0.37 KW are now available.

The elimination of external cables results in simplified connection, to name two of many advantages. Others are the lack of screened motor cables, low power dissipation and voltage stress caused by internal cabling, and unproblematic interference emission.

Already existing drive motors can be easily retrofitted onto existing drive motors. Furthermore, the complete package is space as well as cost saving and conform to Protection Category IP 55.

The frequency converter operates at a cycle rate of approx. 10 kHz (switchable to 16 kHz).

This enables outstanding motor smoothness and jolt-free operation, even at low motor speeds.

The frequency converter is designed for two-quadrant-operation (drive operation in both rotation directions).

Braking is possible up to the motor's level of power dissipation, whereby the motor is operated at a level of over-voltage in braking mode, drastically increasing the motor's power dissipation. The machine is equipped with a thermal monitoring system which shuts down machine functions when an operating temperature of approx. 85 °C is exceeded.

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Frequency Converter: Technical Data

RGM Drive Motors -
Something you can
rely on.

General

Power Supply	230 VAC
With reduced output, it can be switched to (permitted load: approx. 75 % of the rated input)	115 VAC
Permitted tolerance of power supply	+/- 15 %
Permitted frequency of power supply	50 – 60 Hz
Recommended fuse	6.3 A slow fuse
Maximum engine size	375 W
Motor rated voltage	3 x 230 VAC
Motor current (maximum value at 30 °C)	>3 A eff
Operating temperature range (temperature of the external side of the frequency converter)	0 – 70 °C
Dimensions (L x W x D)	150 x 100 x 70 mm
Weight	0.85 kg

Output Frequency Ranges

• Normal mode	0 – 150 Hz
• Pump mode	0 – 55 Hz
• High frequency mode	0 – 600 Hz
Setting range of minimum frequency (P4 padder)	0 – 50 % of the respectively set maximum frequency

Ramp Times

Normal mode, frequency jump = 150 Hz	0.1 – 15 sec
• Short ramp	4 – 300 sec
• Long ramp	
High frequency mode, frequency jump = 600 Hz	0.2 – 15 sec
• Short ramp	1.5 – 250 sec
• Long ramp	
Pump mode, frequency jump = 55 Hz	7 sec
200 Hz mode	1 sec

Control Signals

• B1 and B2 open	Potentiometer or external voltage 0-10 V
• B1 plugged in, B2 open	0 – 20 mA
• B1 and B2 plugged in	4 – 20 mA

Input resistance of the control input

• B1 open	> 500 kohm
• B1 plugged in	470 ohm

Release Signal

Contact / Transistor, Load 10 V/1mA

Rotation Signal

Contact / Transistor, Load 10 V/1mA

Motor Temperature Monitoring

Contact / Transistor, Switch Point 1040 ohm

Operation Report (Inverter OK)

NPN-Open-Collector (max. 27 V/100 mA)



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