

KALEJA GmbH
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Motor-speed control for brush sticking direct current motor 24VDC

Implementation for switching current
up to 6A

With speed control, I x R amplification
2 quadrant operation without change of
rotation

To snap onto DIN rail EN 50022

Construction width: 45mm



Short designation / type	Rated voltage: 24VDC M-1Q-6-30
Art. - No.	06.04.039
Technical data: input circuit	
Rated voltage / threshold voltage	24 VDC
Range of rated voltage min. / max.	18V to 35VDC
Input current during rated voltage	10mA
Analogue input - range of voltage	0V to 10VDC
Status indicator	LED 3mm yellow
Technical data: output circuit	
MOS-FET	
Range of switching voltage / motor voltage	18V to 35VDC
Max. permanent load current	6A
Short-circuit current	70 - 80 A
Time of short-circuit detection	< 25 ms
I x R amplification	yes
Power driver	MOS-FET
Other data	
Ambient temperature range	-20°C to + 50°C
Absence of vibration a/r (10...500Hz)	> 20 / 5
Overload protection / short-circuit-proof / temperature monitoring	yes / yes / yes
DIN VDE-determinations	VDE 0110, 0160 in parts
Position of installation / mounting	can be snapped, addable
Mode of connection: screw terminal / pluggable	single wire 4mm ² , fine wire 2,5mm ²
Dimensions: W x D x H	45mm x 75mm x 105mm

Description

The M-1Q-6-30 module is a single-quadrant motor control system for 24VDC motors. It ensures switching ON/OFF and an IxR regulation of 0 - max. compensation. The basic amplification can be changed over via a bridge at the connection terminals S+, S1, S2 and S3. Dynamic braking is not activated due to a bridge at the connection terminals Dyn 1 and Dyn 2.

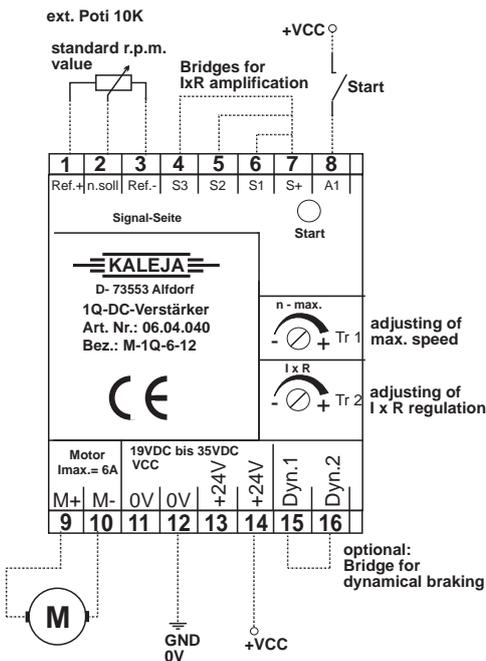
Special features:

Short-circuit protection, temperature protection, overload protected, analog input 0 to 10V for motor speed, adjustable IxR amplification.

Function of connection terminals S+, S1, S2, S3

Bridges	Function	Motor type resistance in mOhm	Compensation in mV per A at Tr2 adjustable
No	Lowest amplification	up to 50	0 - 50
S+ and S1	Low amplification	up to 200	0 - 200
S+ and S2	High amplification	up to 900	0 - 900
S+ and S3	Maximum amplification	up to 2600	0 - 2600

Standard circuit elements



PLC circuit elements

