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ELECTROMEN - EM-285

DC motor 1Q drive 12-24 V dc, 20 A, panel mountable

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- 12-24Vdc, 20A continuous, 30A peak
- Speed control without losing torque
- Adjustable current limit
- Small size, Panel mountable

PRODUCT DESCRIPTION

EM-285 is a PWM-based DC-motor driver. The materials and features meet the industrial standards. Motor voltage is regulated against supply voltage changes, and there is also a load compensation adjustment (Rxl), which enables steady speed during motor loading. Because of these features EM-285 can offer a good DC-motor speed regulation. In the power line of EM-285 there is an overvoltage limit, which trips the power stage in case the voltage would try to rise too high.
This is possible in deceleration situation (emf voltage generation in braking).
If potentiometer is turned on zero-position, the driver will make a shorting on motor wires for 5s.
This creates a powerfull braking (dynamic brake) which can be used to stop or lower the motor speed fast.
The current limit and potentiometer range can be adjusted with on-board trimmer potentiometer.
The device is EMC measured and meets industrial requirements in typical installation. EM-285 is easy to mount to a D10mm hole in the assembly panel. The power stage is not short circuit protected, so it is recommended to use an external fuse in application supply wiring.

FEATURES
- Speed cont. to 1-direction
- Panel mountable
- Small size
- Motor size 30-200W
- Good speed regulation
- Load comp. adjustable Rxl
- Adjustable current limit
- Overheating protection
- EMC tested.

TECHNICAL DATA

2421_Peak current (A)	30
5646_Dimensions length x width x height (mm)	49x49x47mm
Control type	Speed, Torque
Current setting range	1.0-30A
Max continuous current	20A
Mounting	Panel mount
Operating temperature	0°C...+60°C

PWM frequency	25kHz
Suitable engine	DC
Supplier	Electromen
Supply voltage	12 V DC, 24 V DC
Weight	85 g









