OEM Automatic Ltd
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ELECTROMEN - EM-362

DC Motor Controller 12-36V 160A

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- 12-36Vdc, 160A continuous, 300A peak
- For brushed motors up to 1.8kW at12V, 2.7kW at 24V, 3.0kW @ 36V
- Integrated cooling fan
- Limit switch inputs for end of travel
- Compact, DIN rail mountable

PRODUCT DESCRIPTION

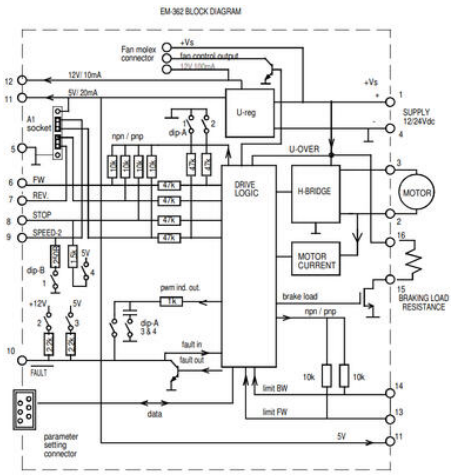
The EM-362 is a four-quadrant driver designed for low-voltage permanent magnet brushed motors. Acceleration and braking ramps are available for a smooth starts and decelerations. An adjustable current limit protects the motor from overloading during the drive phase ans there is also a current limit for regenerative braking also.
The EM-362 controller accepts a nominal supply voltage of 12-24Vdc, and can still operate with a supply as low as 8V. It has an integrated cooling fan to ensure adequate cooling while the drive is running.

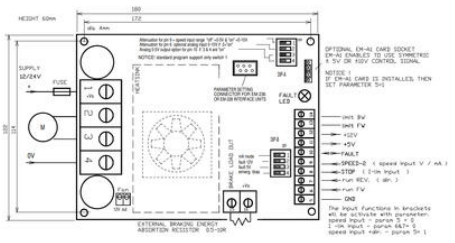
Applications:
- Autonomous vehicles
- Winches and lifts
- Access control
- General automation

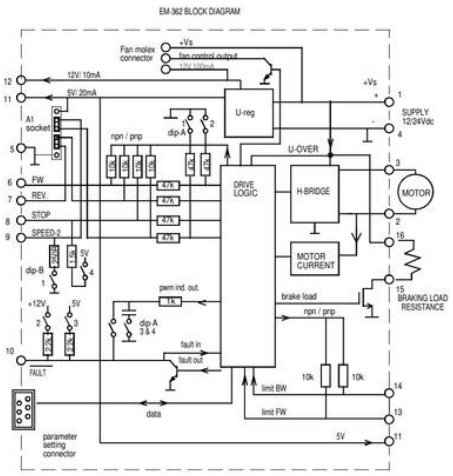
TECHNICAL DATA

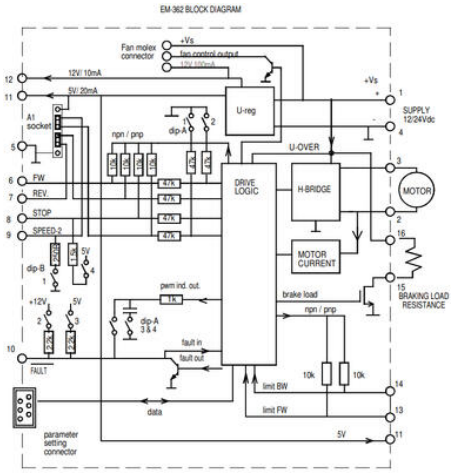
2421_Peak current (A)	300
5646_Dimensions length x width x height (mm)	1
Analogue input	+/-0-5V or +/-0-10V or 0-5V or 0-10V
Control type	Speed, Braking, Direction, Torque, Soft start / stop
Current setting range	1-255 A
Logic input high	>4V = ON
Logic input low	<1V = OFF
Mounting	DIN rail
Operating temperature	-40°C...+60°C
PWM frequency	2kHz/16kHz
Suitable engine	DC
Supplier	Electromen
Supply voltage	12 V DC, 24 V DC

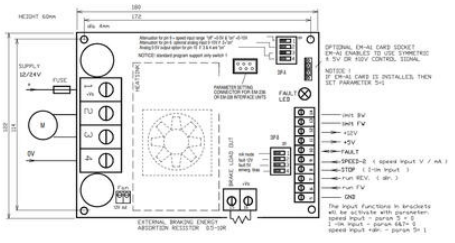
Weight	620 g

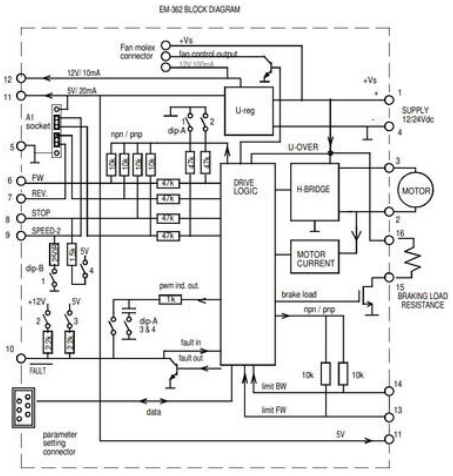

EM-362 BLOCK DIAGRAM
Fan molex connector
+Vs
fan control output
12V/ 10mA
5V/ 20mA
U-reg
SUPPLY 12/24Vdc
A1 socket
npn / pnp
dip-A
U-OVER
DRIVE LOGIC
H-BRIDGE
MOTOR
FW
REV.
STOP
SPEED-2
MOTOR CURRENT
dip-B
pwm ind. out.
brake load
BRAKING LOAD RESISTANCE
+12V
5V
dip-A 3 & 4
fault in
fault out
FAULT
10k
limit BW
limit FW
data
parameter setting connector




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