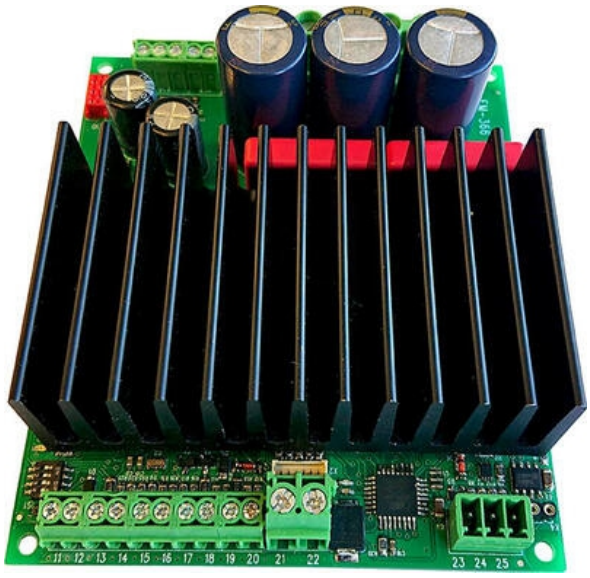
OEM Automatic Ltd
Address: Whiteacres, Whetstone Leicester, LE8 6ZG
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ELECTROMEN - EM-366

Brushless motor driver 12-48V, 30/25A, Modbus

EM-366
4Q BLDC drive 30A, 12-48V DC

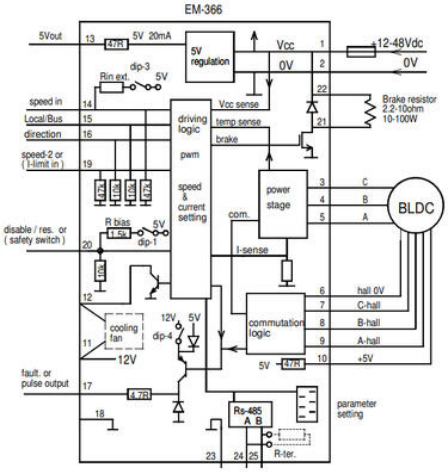


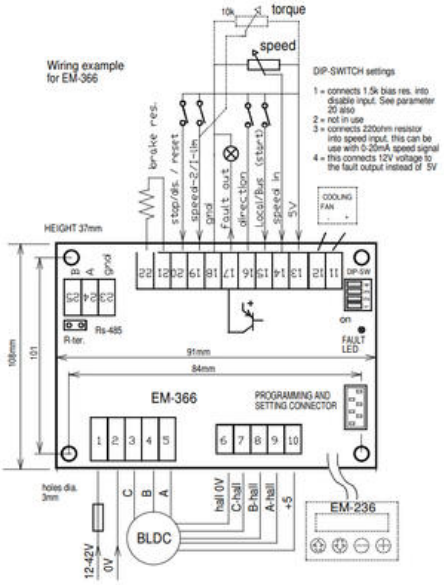
- 12-48Vdc, 25A continuous, 30A peak
- Open & closed loop (hall sensor feedback) control operation
- Speed, direction, current limiting, soft start/stop and regen braking
- Positional version available (SBL)
- Compact, DIN rail mountable

PRODUCT DESCRIPTION

TECHNICAL DATA

2421_Peak current (A)	60
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	1-60 A
Logic input high	>4V = ON
Logic input low	<1V = OFF
Mounting	DIN rail
PWM frequency	16kHz
Suitable engine	BLDC
Supplier	Electromen
Supply voltage	12 V DC, 24 V DC, 36 V DC
Weight	270 g


EM-366
5Vout
13
4.7R
5V 20mA
5V regulation
Vcc
0V
1
2
+12-48Vdc
0V
dip-3
Rin ext
5V
22
Brake resistor
2.2-10ohm
10-100W
speed in
14
Local/Bus
15
direction
16
Vcc sense
driving logic
temp sense
brake
21
speed-2 or
(I-limit in)
19
pwm
power stage
3
4
5
C
B
A
BLDC
speed & current setting
com.
R bias
1.5k
5V
dip-1
disable / res. or
(safety switch)
20
I-sense
6
hall 0V
12
7
C-hall
8
B-hall
cooling fan
12V
5V
dip-4
commutation logic
11
9
A-hall
12V
5V
4.7R
10
+5V
fault. or
pulse output
17
4.7R
parameter setting
Rs-485
A B
18
23
24
25
R-ter.


Wiring example
for EM-366
10k
torque
speed
DIP-SWITCH settings
1 = connects 1.5k bias res. into disable input. See parameter 20 also
2 = not in use
3 = connects 220ohm resistor into speed input, this can be use with 0-20mA speed signal
4 = this connects 12V voltage to the fault output instead of 5V
brake res.
stop/dis. / reset
speed-2/I-lim.
gnd
Fault out
direction
Local/Bus (start)
speed in
5V
COOLING FAN
HEIGHT 37mm
B
A
gnd
22
12
02
61
81
71
91
51
41
31
21
11
DIP-SW
on
R-ter.
Rs-485
FAULT LED
108mm
101
91mm
84mm
EM-366
PROGRAMMING AND SETTING CONNECTOR
1
2
3
4
5
6
7
8
9
10
holes dia. 3mm
C
B
A
hall 0V
C-hall
B-hall
A-hall
+5
BLDC
EM-236
12-42V
0V