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EM-316A

Sterownik silników BLDC

EM-316A
Sterownik silnika BLDC, 4Q, 12-35V DC, 10A



- 12-24 V DC, 10 A prąd ciągły, 25 A prąd szczytowy
- Praca w pętli otwartej lub zamkniętej (sprzężenie zwrotne z czujników Halla)
- Praca czterokwadrantowa
- Dostępne napięcie sterowania ±5 V lub ±10 V
- Kompaktowa budowa, montaż na szynie DIN

OPIS PRODUKTU

EM-316A is brushless DC-motor driver with hall sensor feedback. The unit has a mosfet power stage with good efficiency and it meets also todays EMC requirements. The driver can be used with 120° or 60° commutation. The unit has the basic digital command inputs like direction, brake, start/stop, disable and there is analog inputs for speed and current control. One digitally presetable second speed (speed-2) is possible to activate with digital command input. EM-316 has two NPN outputs for fault and overcurrent indication use. Some input and output functions can be modified with parameters. Driver includes overvoltage, undervoltage and overtemperature protections. These fault situations are indicated with fault on-board LED. Overtemperature and current limit situations can be reset with reset input, reset-timer or by setting analog speed control to value to 0.
There are two control options for speed. Direct control (open loop) sets motor voltage in propotion to control voltage as with a standard DC-motor. Closed loop uses hall sensor feedback for speed control, this modeoffers good speed regulation.
Start and stop ramps work in both mode. Speed adjust range, closed loop rpm range and rampse can be set with parameter.
Anolog input are filtered so that there can also use PWM signal for control speed and current.
EM-316A has added card slot for EM-A1card, which make possible to use symmetric control -5..0..+5V (rev-stop-fwd)
EM-A1 card generate also -5V auxliary voltage for local potentiometer control
Setting can be done digitally with EM-236 interface unit or with Emen-Tool lite program installed in PC and EM-268 adapter cable.
Parameters stored into nonvolatile memory of device. This interface unit can also be monitored the current and rpm of motor.
Device can be installed in DIN-rail base and some enclosure options are also available.

FEATURES
- Three phase output
- Speed and torgue adjustment
- Open/closed loop modes
- Dynamic braking
- Current limit and trip
- Fault and overcurrent outputs
- 60° / 120° commutation options
- Good efficiency
- Low EMC emissions
- DIN-rail mountable
- EM-316A is compatible with EM-316
- Added EM-A1 card slot for ±10V control
- Rpm-pulse output option (prog v1.5)

SPECYFIKACJA TECHNICZNA

2421_Peak current (A)	25
5646_Dimensions length x width x height (mm)	89x73x32 mm
Częstotliwość PWM	16kHz

Dostawca	Electromen
Maksymalny prąd ciągły	10 A
Masa	200 g
Montaż	szyna DIN
Napięcie zasilania	12 V DC, 24 V DC
Odpowiedni silnik	Bezszczotkowy DC
Rodzaj sterowania	Prędkość, Hamowanie, Kierunek, Moment, Soft start/stop
Sygnał niski - logiczne 0	<1V = OFF
Sygnał wysoki - logiczne 1	>4V = ON
Wejście analogowe	0-5V lub 0-10V lub ±5V lub ±10V
Zakres ustawień prądu	0.1-25 A







