

>> DC BRUSHLESS DRIVERS

Small servodrive for Brushless servomotors up to 3Nm

MICROSTAR B (SMB) are a complete line of Servomotors DC Brushless Drive and DC Brush Drive.

Their typical applications are: Robotics, Medical Equipment, Textile Machinery, Conveyors, Printing Machinery, Automated welding, Packaging Machinery, Positioners, Feeders and many other industrial applications incorporating servo motor and control mechanisms.

GENERAL FEATURES

Three phase trapezoidal brushless, four quadrant operation
 Competitive price
 Ultracompact dimensions
 Drive range up to 3 Nm 3000 Rpm
 SMT Technology
 Power Mosfet bridge
 Operating temperature 0-40°C
 DC supply

STANDARD FUNCTIONS

Acceleration and deceleration ramp adjustable
 Torque control
 Speed feedback:
 - For Brushless: Hall signals / Armature / Encoder+Hall signals / Fa-coder
 - For DC Brush: Armature / Encoder

Signal of Drive-OK with transistor open collector
 Adjustable zero offset
 Fine adjustable of max speed
 Adjustable proportional and derivative gains
 Enable input available with positive / negative logical levels
 60/120 degrees commutation phase setting

OPTIONAL FUNCTIONS

PWM + DIR mode and STEP + DIR mode

TECHNICAL CHARACTERISTICS

Differential speed and torque reference +/-10V
 Input impedance 22K Ohm
 Enable signals: 10 to 30 VDC
 Frequency of PWM 22KHz
 Motor current monitor +/-7V (at peak current)
 Motor speed monitor +/-8V (at max speed)
 Auxiliary output supply for encoder: +5V / 150mA
 Output voltage supply: +10 / -10 VDC - 5 mA

PROTECTIONS

Short-circuit of motor
 Power supply over-under voltage
 Heatsink overtemperature
 Rated current limit
 Break hall sensors



DESCRIPTION

The MICROSTAR B (SMB) are four quadrant three phase trapezoidal servodrives for controlling of DC brush and DC brushless servomotors. They have been designed in ultracompact format with advanced technology and competitive price.

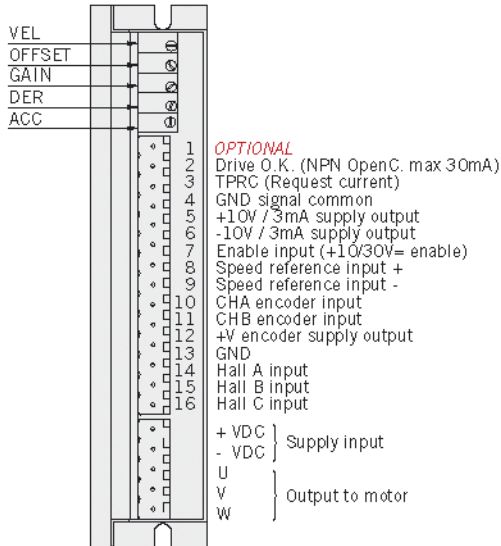
The MICROSTAR B (SMB) finds application in every sector of automation where is required high speed response, an extreme precision in positioning and a high torque at low speed without compromising on quality and reliability.

The MICROSTAR B (SMB) are available in two different versions to control servomotors with voltage from 30 to 110V.

MODEL	SMB060			SMB110		
Size	5/10	8/16	10/20	5/10	8/16	10/20*
Rated Current	5	8	10	5	8	10
Peak current for 2"	10	16	20	10	16	20
Vdc power supply Min/Max	20/80			40/130		

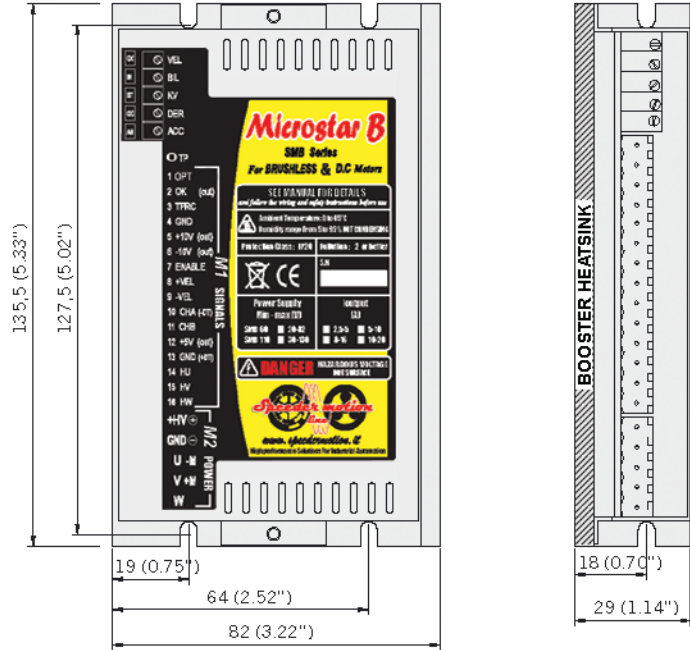
* Booster heatsink

SIGNAL AND POWER CONNECTIONS

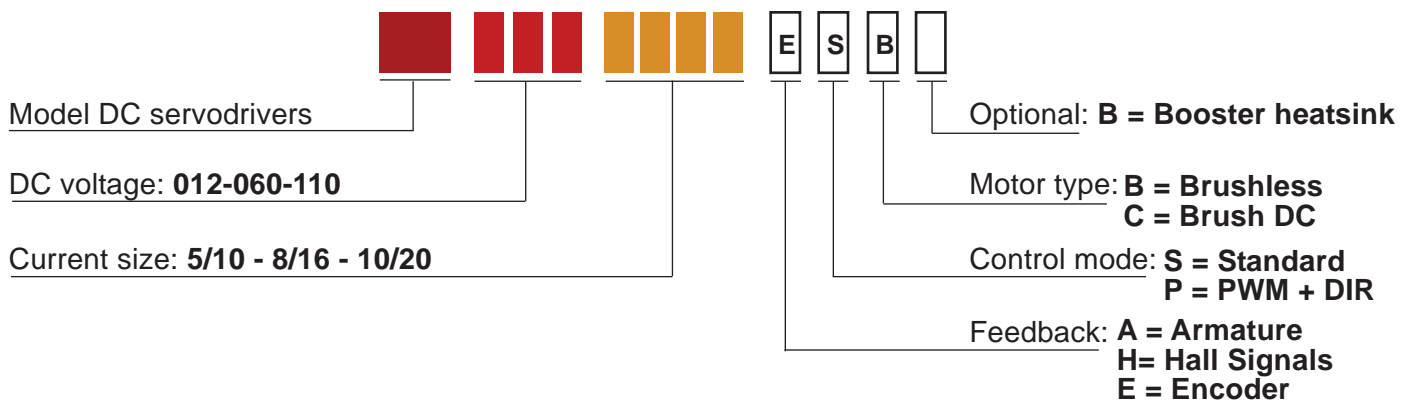


OVERALL DIMENSIONS

mm (inches)



ORDER CODE FOR MICROSTAR B (SMB)



EXAMPLE: **SMB 060-08 16 ESB** Microstar B 60V - 8An / 16 Ap - Feedback encoder - Brushless servomotor