

## >> DC DRIVE CONTROL

**MICROSTAR C (SMC)** are a complete line of Servomotors DC Drives that work in three feedback modes

- Armature
- Tachogenerator
- Encoder

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

Competitive price  
 Ultracompact dimensions  
 Drive range up to 3,5 Nm  
 SMT Technology  
 Power Mosfet bridge  
 Operating temperature 0-40°C  
 DC supply

### STANDARD FUNCTIONS

Acceleration and deceleration ramp adjustable  
 Torque control  
 Speed feedback in two modalities:  
 - Armature  
 - Tachogenerator (Optional)  
 Signal of Drive-OK with transistor open collector  
 Adjustable zero offset  
 Fine adjustable of max speed  
 Adjustable proportional gain

### OPTIONAL FUNCTIONS

Encoder feedback  
 PWM + DIR mode  
 Forward/backward stop limit  
 Speed feedback tachogenerator modality

### TECHNICAL CHARACTERISTICS

Differential speed reference +/-10V  
 Input impedance 22K ?  
 Enable signals: +5 to 30 VDC  
 Frequency of PWM 20KHz  
 Motor current check Test Point +/-5V(I peak )

### PROTECTIONS

Short-circuit of motor  
 Power supply overvoltage  
 Power supply undervoltage  
 Heatsink overtemperature  
 Rated current limit



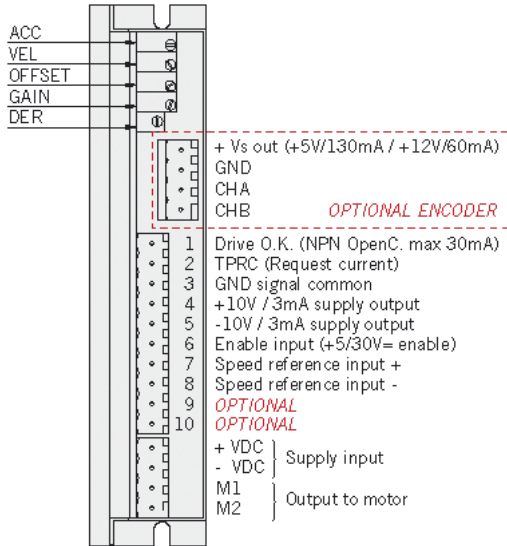
The MICROSTAR C (SMC) are four quadrant bi-directional servodrives for controlling of DC servomotors up to 3.5Nm. They have been designed in ultracompact format with advanced technology and competitive price.

The MICROSTAR C (SMC) ? nds 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 C (SMC) are available in three different versions to control servomotors with Dc armature voltage from 12 to 110VDC.

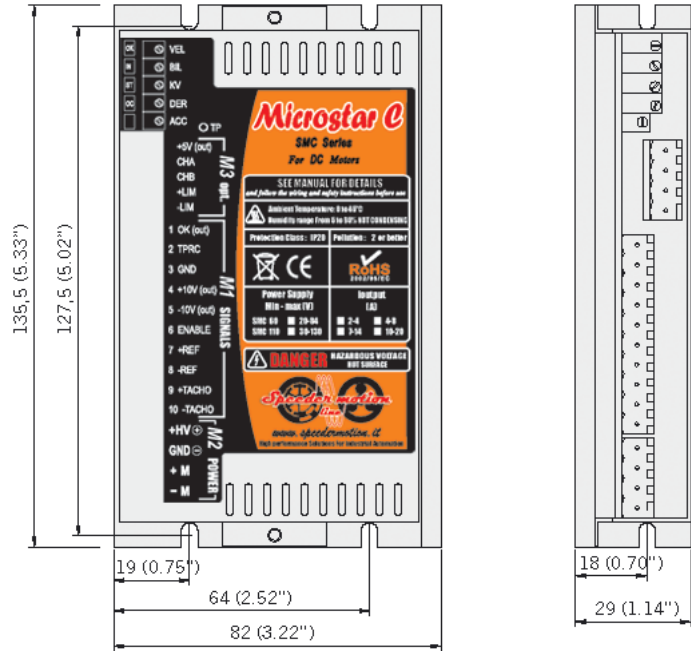
MODEL	SMC012				SMC060				SMC110			
Size	1/2	2.5/5	6/12	10/20	1/2	2.5/5	6/12	10/20	1/2	2.5/5	6/12	10/20
Rated Current	1	2.5	6	10	1	2.5	6	10	1	2.5	6	10
Peak current for 2"	2	5	12	20	2	5	12	20	2	5	12	20
DC power supply Min/Max	9/28				20/80				30/130			

## SIGNAL AND POWER CONNECTIONS



## OVERALL DIMENSIONS

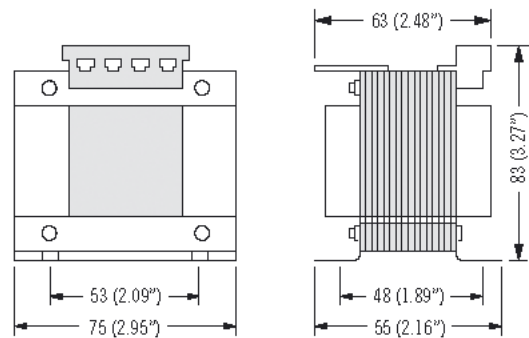
mm (inches)



## ORDER CODE FOR MICROSTAR B (SMB)

When the motor has an inductance less than 1mH , an additional inductor must be connected between the motor and the drive. For MICROSTAR C (SMC) are available 3 types of inductances, depending on the size of the Drive.

CODE	TYPE OF INDUCTANCE	MOTOR RATED CURRENT	INDUCTOR RATING
IM3A2	L4	≤ 3A	2mH 3A
IM6A2	L5	≤ 6A	2mH 6A
IM11A2	L2	≤ 11A	2mH 11A



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