



Catalog #: 150-SB2NBD

Disponibilidade Preferida

SMC-50 Smart Motor Controller, 200...480V, 110 A Line, 190 A Delta Normal Duty: 90 A Line, 155 A Delta Heavy Duty

Lifecycle status: ACTIVE

Technical Specifications

Electrical

With display	No
Voltage type for actuating	AC
Rated operating voltage Ue	200 V
Rated control supply voltage at AC 50 Hz	100 V
Rated control supply voltage at AC 60 Hz	100 V
Controller rating	110 A
Continuous duty power structure heat dissipation	330 W
Overload current for line connected devices	37 A
Overload current for delta connected devices	65 A
Controller type	SMC-50
Trip classes	5...30
Trip current rating	118% of motor FLC
Base power draw from control module with heat sink fan	75 W @ 24V DC
DV/DT protection	RC snubber network
Repetitive peak inverse voltage rating	1400V per UL/CSA/NEMA for power circuit
Operating frequency	47...63 Hz or DC for control power
Rated impulse voltage	6000V per IEC for power circuit
Dielectric withstand	2500V per IEC for power circuit
Line connected motor current	Normal/standard duty: 37...110 A @ 400/415/460V AC, 3-phase
Delta connected motor current	Normal/standard duty: 65...190 A @ 400/415/460V AC, 3-phase
Transient protection	Metal oxide varistors: 220 Joules
Insulation voltage	Rated 500V per IEC for power circuit

Line connected motor power	Normal/standard duty: 30...75 Hp @ 460V AC, 60 Hz, 3-phase
Delta connected motor power	Normal/standard duty: 50...150 Hp @ 460V AC, 60 Hz, 3-phase
High capacity available fault current, max	65 kA @ 600V, typical current 300 A time delay Class J or Class L fuse for inside delta connected motors
Utilization category	MG 1 per UL/CSA/NEMA for normal duty
Option power adder	5VA @ 100...240V AC, 150-SM6 (for each option installed, add to base power to obtain total power requirement)
Standard controller feature	Torque control
Standard available fault current, max	18 kA @ 600V, typical current 500 A non-time delay fuse for inside delta connected motors
Optional controller feature	Parameter configuration/programming tools
Integrated motor overload protection	Yes
Short circuit protection device performance (SCPD) type	Type 1
Control power ride through	22 ms for control power
Control module battery type	CR 2032 for control power
Overload type	Electronic - using I2t algorithm
Output current, max	300 mA @ 24V DC supply (terminals 8 and 12) for control power

Mechanical

Degree of protection (IP)	IP00
Shock	Operational: 15 G
Width	Line/wye: 609.6 mm
Depth	Line/wye: 304.8 mm
Height	Line/wye: 762 mm
Power terminal lugs	One 10.5 mm (0.41 inch) diameter hole per power pole
Vibration	Operational: 1.0 G peak, 0.15 mm (0.006 inch) displacement
Function	Single direction
Power terminal markings	NEMA, CENELEC EN50 012
Control terminals	Clamping yoke connection, M3 screw clamp

Environmental

Storage and transportation temperature	-25 °C
Rated surrounding temperature range without derating	-20 °C
Humidity	5...95% (noncondensing)
Protection against electrical shock	IP2X (with optional terminal cover) per IEC

EMC emission levels	Radiated emissions: Class A (per EN 60947-4-2)
EMC immunity levels	Surge transient per EN 60947-4-2
Altitude	2000 m (6560 ft) without derating, for operation above 2000...7000 m (6560...22965 ft) maximum, refer to Thermal Wizard
Pollution degree	2
Mounting orientation	Vertical
Atmospheric protection	ANSI/ISA - 71.04-2013, class G3 environment
Operating ambient temperature	40 to 65 °C (104 to 149 °F)(refer to thermal wizard)

Construction

Number of poles	3
Horizontal clearance, min	0 cm
Vertical clearance, min	15 cm
Enclosure	Open type
Metal parts	Plated brass, copper or steel
Control modules	Thermoset and thermoplastic moldings
Power poles	Heatsink hockey puck thyristor modular design

Certificações

- China CCC
- Eurasian Economic Community
- Australian RCM

This product was certified with the above certifications as of 2022-12-11. Products sold before or after this date might carry different certifications. Please review the product label to check for the certifications your specific product carries.



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