Allen-Bradley
by ROCKWELL AUTOMATION

Catalog #: 150-C60NBD Disponibilidade Preferida

SMC-3 60A Smart Motor Controller

Lifecycle status: ACTIVE

Technical Specifications

Electrical

With display	No
Voltage type for actuating	AC/DC
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
Overload current	20 A
Controller type	SMC-3
DV/DT protection	1000V/µs for power circuit
Repetitive peak voltage	1400V per UL/CSA/NEMA for power circuit
Operating frequency	50/60 Hz per UL/CSA/NEMA for power circuit
Line connected motor power, max	7.5...20 Hp @ 230V AC, 60 Hz, 3-phase
Delta connected motor power, max	7.5...30 kW @ 230V AC, 50 Hz, 3-phase
Overvoltage category	III per IEC for side mount auxiliary contacts
Rated impulse voltage	6 kV for power circuit
Dielectric withstand	2500V AC per IEC for power circuit
Line connected motor current	20...60 A @ 380/400/415/460V AC, 3-phase
Delta connected motor current	34.6...104 A @ 380/400/415/460V AC, 3-phase
Insulation voltage	Rated 600V AC per UL/CSA/NEMA for power circuit

Rated operational voltage	250V AC/30V DC per UL/CSA/NEMA for Side mount auxiliary contacts
Rated control power during start with fan	200 mA @ 120V AC/100 mA @ 240V AC, 700 mA @ 24V AC/DC
Input OFF-state current	<10 mA, <12 mA @ input OFF-state voltage (IN1, IN2) for control circuit
Short-circuit protection device list	Non-time delay Thermal magnetic circuit breaker High capacity time delay class CC/J/L
Number of contacts	TB-97, -98 (OVLD/Fault): 1 for auxiliary contacts
High capacity available fault current, max	70 kA @ 600V, maximum current 225 A time delay Class J or Class L fuse for inside delta connected motors
Type of current	TB-97, -98 (OVLD/Fault): AC/DC for auxiliary contacts
Conventional thermal current (Ith)	TB-97, -98 (OVLD/Fault): 1 A for auxiliary contacts
Type of control circuit	TB-97, -98 (OVLD/Fault): Electromagnetic relay for auxiliary contacts
Type of contacts	TB-97, -98 (OVLD/Fault): Normally Open (N.O.) for auxiliary contacts
Utilization category	TB-23, -24 (normal/up-to-speed), TB-33, -34 (normal/up-to-speed): C300/R150 per UL/CSA/NEMA for Side mount auxiliary contacts
Rated operational current, max	TB-97, -98 (OVLD/Fault): 0.6 A @ 120V AC and 0.3 A @ 240V AC for auxiliary contacts
Standard controller feature	Soft stop
Standard available fault current, max	10 kA @ maximum standard fuse 400 A for delta device operational current rating
Integrated motor overload protection	Yes
Short circuit protection device performance (SCPD) type	Type 1
Selectable overload trip class	Trip Class 10, 15, or 20
Selectable start times	2, 5, 10, 15, 20, 25, or 30 s
Input OFF-state voltage (IN1, IN2), max	40V AC, 17V DC/12V AC for control circuit
Selectable current limit	150%, 250%, 350%, and 450% of full load current
Input ON-state voltage, during start (IN1, IN2)	85V AC, 19.2V DC/19.2V AC minimum for control circuit
Input ON-state current (IN1, IN2)	9.8 mA @ 120V AC/19.6 mA @ 240V AC for control circuit, 7.3 mA @ 24V AC/DC for control circuit

Mechanical

Degree of protection (IP)	IP2X
Weight	2.25 kg

Shock	Operational: 15 G
Width	72 mm (2.83 inch)
Depth	130 mm (5.12 inch)
Height	206 mm (8.11 inch)
Cable size	2.5...95 mm2 (14...3/0 AWG) for line power terminals
Vibration	Operational: 1.0 G peak, 0.15 mm (0.006 inch) displacement
Make	TB-97, -98 (OVLD/Fault): 432VA for auxiliary contacts
Break	TB-97, -98 (OVLD/Fault): 72VA for auxiliary contacts
Tightening torque	11.3...12.4 Nm (100...110 lb.inch) for load power terminals
Internal bypass	Yes
Function	Single direction
Selectable kick start - 450% FLA	0, 0.5, 1.0, or 1.5 s
Selectable initial torque	15%, 25%, 35%, and 65% of locked rotor torque
Selectable soft stop	Off, 100%, 200%, or 300% of the start time setting when wired

Environmental

Steady state heat dissipation	50 W
Storage and transportation temperature	-25 °C
Rated surrounding temperature range without derating	-5 °C
Humidity	5...95% noncondensing
Operating temperature	Open: -5 to 50 °C (23 to 122 °F)
EMC emission levels	Radiated emission: Class A per IEC
EMC immunity levels	Surge transient: per EN/IEC 60947-4-2 per IEC
Altitude	2000 m
Pollution degree	2

Construction

Mounting hole size	5.3 mm
Number of poles	Equipment is designed for 3-phase only for power circuit
Enclosure	Open type

Certificações

- China CCC
- Eurasion Economic Community
- Australian RCM

This product was certified with the above certifications as of 2022-12-20. 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.