



Catalog #: 150-C19NBD [Mais vendido](#)

SMC-3 19A 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 | 6.3 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 kW @ 380/400/415V AC, 50 Hz, 3-phase |
| Delta connected motor power, max | 5...15 Hp @ 460V AC, 60 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 | 6.3...19 A @ 380/400/415/460V AC, 3-phase |
| Delta connected motor current | 10.9...32.8 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 | 215 mA @ 120V AC/180 mA @ 240V AC, 800 mA @ 24V DC/660 mA @ 24V AC |
| 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 (OVL/D/Fault): 1 for auxiliary contacts |
| High capacity available fault current, max | 69 kA @ 600V, maximum current 70 A time delay Class J or Class L fuse for inside delta connected motors |
| Type of current | TB-97, -98 (OVL/D/Fault): AC/DC for auxiliary contacts |
| Conventional thermal current (I _{th}) | TB-97, -98 (OVL/D/Fault): 1 A for auxiliary contacts |
| Type of control circuit | TB-97, -98 (OVL/D/Fault): Electromagnetic relay for auxiliary contacts |
| Type of contacts | TB-97, -98 (OVL/D/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 (OVL/D/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 | 5 kA @ maximum standard fuse 70 A for line 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 |
| Rated control power during start without fan | 205 mA @ 120V AC/145 mA @ 240V AC, 705 mA @ 24V DC/580 mA @ 24V AC |
| 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 |
| | |
| Degree of protection (IP) | IP2X |

Mechanical

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| Weight | 0.86 kg |
| Shock | Operational: 15 G |
| Width | 44.8 mm (1.76 inch) |
| Depth | 110 mm (4.33 inch) |
| Height | 139.7 mm (5.5 inch) |
| Cable size | 2.5...25 mm ² (14...4 AWG) for line power terminals |
| Vibration | Operational: 1.0 G peak, 0.15 mm (0.006 inch) displacement |
| Make | TB-97, -98 (OVLDFault): 432VA for auxiliary contacts |
| Break | TB-97, -98 (OVLDFault): 72VA for auxiliary contacts |
| Tightening torque | 2.3...3.4 Nm (30 lb.inch) for line power terminals, 4.0 Nm (35 lb.inch) if 25 mm ² (4 AWG) wire in top terminal for line power terminal |
| 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

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| Steady state heat dissipation | 15 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

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| Mounting hole size | 4.6 mm |
| Number of poles | Equipment is designed for 3-phase only for power circuit |
| Enclosure | Open type |

Certifications

- China CCC
- Eurasian Economic Community
- Australian RCM

This product was certified with the above certifications as of 2024-07-12. 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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