


NOARK

# Ex9S80A25BM

Magnetic-only Manual Motor Starter (MMS) - 1600194 - Ex9S80 - 20-25A setting - class 10 - rotary handle operation

Magnetic-only Manual Motor Starter (MMS) / Branch protector - high magnetic-trip threshold (above 15 x Ie) - NOARK (Ex9S80 series) - 20A...25A current setting range - Interrupting capacity 42kA (type E; 240Vac; 480Y/277Vac) - Rotary handle operation - 3-poles (3P) - M8 HEX head screw connections - Magnetic only - IP20 - compatible with Ex9S80 mtr. starter - equivalent to 1600194

## Additional information

The technical information provided in the datasheet is subject to change without notice. For confirmation, please contact NOARK's product support team.

## Specifications

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|---|---|
| **Primary brand** | NOARK |
| **Main function** | Motor Protection Circuit Breaker (MPCB) |
| **Product series / family name** | Industrial controls > Manual Motor Starters (MMSs) |
| **Sub-range name** | Ex9S80 series |
| **Network frequency** | 50/60 Hz |
| **Functions** | Magnetic-only Manual Motor Starter (MMS) / Branch protector |
| **Design** | high magnetic-trip threshold (above 15 x Ie) |
| **Poles** | 3-poles (3P) |
| **Rated current** | 20A...25A current setting range<br>25A (conventional thermal current; Ith)<br><br>Matched backup fuse ratings<br>50A (Class aM fuse at 690Vac)<br>63A (Class gI/gG fuse at 690Vac) |
| **Frame current rating** | 80 AF |
| **Rated active power (kW)** | 5.5kW (AC-3; 230/240Vac)<br>11kW (AC-3; 400/415Vac)<br>15kW (AC-3; 500Vac)<br>22kW (AC-3; 690Vac) |

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| **Rated power (HP)** | 2HP (110-120Vac; single-phase; UL)<br>7.5HP / 7-1/2HP (208Vac; 3-phase; UL)<br>7.5HP / 7-1/2HP (220-240Vac; 3-phase; UL)<br>15HP (460-480Vac; 3-phase; UL)<br>20HP (575-600Vac; 3-phase; UL) |
| **Rated operating voltage (Ue)** | (AC) 230/240 V<br>(AC) 400/415 V<br>(AC) 460/480 V<br>(AC) 575/600 V |
| **Rated impulse voltage (Uimp)** | 6 kV |
| **Rated insulation voltage (Ui)** | (IEC) 690 V<br>(UL/CSA) 600 V |
| **Connection type** | M8 HEX head screw connections |
| **Short circuit breaking rating** | 42kA (type E; 240Vac; 480Y/277Vac)<br>30kA (type E; 600Y/347Vac) |
| **Ultimate short circuit current breaking capacity (Icu)** | 100kA (400Vac)<br>8kA (690Vac) |
| **Service short circuit current breaking capacity (Ics)** | 100kA (400Vac)<br>8kA (690Vac) |
| **Trip unit type** | Technology = Magnetic only |
| **Protection functions** | Adjustable thermal protection (Overload) Class 10<br>Fixed threshold magnetic protection (Short-circuit)<br>Phase failure protection |
| **Protection settings** | Protection against thermal overload -- 20A...25A (adjustable)<br>Magnetic instantaneous protection against short-circuit -- 500A |
| **Operating mode** | Rotary handle operation |
| **Degree of protection** | IP20 |
| **Dimensions** | H5.51" x W2.17" x D5.39"<br>H140mm x W55mm x D136.8mm |
| **Ambient air temperature for operation** | -4...+140˚F / -20...+60 ˚C |
| **Ambient air temperature for storage** | -4...+176˚F / -40...+80 ˚C |
| **Technical compatibility with** | Ex9S80 mtr. starter |
| **Minimum current** | 20 A |
| **Maximum current** | 25 A |
| **Order code / Manufacturer SKU** | Ex9S80A25BM<br>1600194 |
| **Manufacturer product status** | Commercialized |

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|---|---|
| **Equivalent to** | 1600194 |
| **Compliant with standard(s)** | Vibration resistance - 5-150Hz with 5gn<br>Shock resistance - 30gn for 11ms<br>UL 60947-4-1<br>UL 60947-1<br>IEC/EN 60947-1<br>IEC/EN 60947-2<br>IEC/EN 60947-4-1<br>IEC/EN 60947-5-1<br>RoHS<br>CCC<br>NOM<br>CSA 22.2 No. 60947-1<br>CSA 22.2 No. 60947-4-1<br>GB/T 14048.1<br>GB/T 14048.2<br>GB/T 14048.4 |
| **Class** | 10 |
| **Operating rate** | max. 30 Cycles/hour |
| **Tightening torque** | 6 N.m |
| **Degree of pollution** | III |
| **Application type** | 2000m / 6562ft max. operating altitude |

## Benefits

Ex9S Manual Motor Starter provide manual isolation, manual motor control, and over-current protection. Ex9S Manual Motor Starters are electro-mechanical devices combining the functions below in one unit.

- Disconnect for Motor Branch Circuit
- Manual Motor Control (automatic when used with contactor)
- Branch-Circuit Short Circuit Protection (Magnetic Protection)
- Overload Protection (Thermal Protection) - Trip Class 10
- 5-year limited warranty

The National Electrical Codes requires an individual Motor Branch Circuit to be protected by a UL/CSA Listed Fuse, Circuit breaker or Self-Protected Combination Motor Controller.

Available as
- Up to 80A at 600Vac
- UL 60947-4-1 Type E Self Protection-Ex9S32 and Ex9S80
- UL 60947-4-1 Type F Group Motor Protection-Ex9S80
- Built-in fault indication
- Full range of accessories
- Lockable handle

## Documents

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NOARK - Ex9S series - Datasheet.pdf

Access to all NOARK drawings

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