

NOARK

Ex9S80A20B

Thermal-magnetic Manual Motor Starter (MMS) - 1600178 - Ex9S80 - 14-20A setting - class 10 - rotary handle operation

Thermal-magnetic Manual Motor Starter (MMS) / Branch protector - high magnetic-trip threshold (above 15 x Ie) - NOARK (Ex9S80 series) - 14A...20A current setting range - Interrupting capacity 42kA (type E; 240Vac; 480Y/277Vac) - Rotary handle operation - 3-poles (3P) - M8 HEX head screw connections - Thermal-Magnetic (adjustable) - IP20 - compatible with Ex9S80 mtr. starter - equivalent to 1600178

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

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	Thermal-magnetic Manual Motor Starter (MMS) / Branch protector
Design	high magnetic-trip threshold (above 15 x Ie)
Poles	3-poles (3P)
Rated current	14A...20A current setting range 20A (conventional thermal current; Ith) Matched backup fuse ratings 50A (Class aM fuse at 690Vac) 63A (Class gI/gG fuse at 690Vac)
Frame current rating	80 AF
Rated active power (kW)	4kW (AC-3; 230/240Vac) 7.5kW (AC-3; 400/415Vac) 11kW (AC-3; 500Vac) 15kW (AC-3; 690Vac)

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Rated power (HP)	1HP (110-120Vac; single-phase; UL) 3HP (220-240Vac; single-phase; UL) 5HP (200Vac; 3-phase; UL) 5HP (208Vac; 3-phase; UL) 5HP (220-240Vac; 3-phase; UL) 10HP (460-480Vac; 3-phase; UL) 15HP (575-600Vac; 3-phase; UL)
Rated operating voltage (Ue)	(AC) 230/240 V (AC) 400/415 V (AC) 460/480 V (AC) 575/600 V
Rated impulse voltage (Uimp)	6 kV
Rated insulation voltage (Ui)	(IEC) 690 V (UL/CSA) 600 V
Connection type	M8 HEX head screw connections
Short circuit breaking rating	42kA (type E; 240Vac; 480Y/277Vac) 30kA (type E; 600Y/347Vac)
Ultimate short circuit current breaking capacity (Icu)	100kA (400Vac) 8kA (690Vac)
Service short circuit current breaking capacity (Ics)	100kA (400Vac) 8kA (690Vac)
Trip unit type	Technology = Thermal-Magnetic (adjustable)
Protection functions	Adjustable thermal protection (Overload) Class 10 Fixed threshold magnetic protection (Short-circuit) Phase failure protection
Protection settings	Protection against thermal overload -- 14A...20A (adjustable) Magnetic instantaneous protection against short-circuit -- 400A
Operating mode	Rotary handle operation
Degree of protection	IP20
Dimensions	H5.51" x W2.17" x D5.39" 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	14 A
Maximum current	20 A
Order code / Manufacturer SKU	Ex9S80A20B 1600178
Manufacturer product status	Commercialized

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Equivalent to	1600178
Compliant with standard(s)	Vibration resistance - 5-150Hz with 5gn Shock resistance - 30gn for 11ms UL 60947-4-1 UL 60947-1 IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 IEC/EN 60947-5-1 RoHS CCC NOM CSA 22.2 No. 60947-1 CSA 22.2 No. 60947-4-1 GB/T 14048.1 GB/T 14048.2 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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