



Alternate Catalog No. HF9-ROLE Catalog No. 1SAT146000R1011

Description: HF9-ROLE Electronic Compact Starter 24 VDC

UPC No 4013614515538

Home > Starters > Electronic Starters

The HF-ROLE-range is our safety range with emergency stop function. It's used for the direct-on-line start of motors and the switching of non-resistive loads. With contactor and overload relay functionalities integrated into one device, the results are faster wiring times and fewer faults. The range covers 0.6 A, 2.4 A and up to 9 A - for motors up to 3 kW - 500 V AC. The integrated electronic overload protection has a wide setting range that enables just three models to cover all requirements. Setting range of HF9-ROLE-24VDC is 1.5 A to 9 A. The control supply voltage is 24 V DC. For the control and main connection points ABB offers screw connections. Safety Integrity Level 3 in accordance with functional safety standard IEC 61508-1 and Performance Level 'e' in accordance with ISO 13849-1 are certified. Also ATEX is certified.

Descriptors	
Category	Electronic Starters
Specifications	
Function	Reversed-on-line starter with electronic overload protection and emergency stop function
Horsepower Rating UL/CSA	Nominal Switching Performance Full Load (power factor = 0.4) 3 hp Nominal Switching Performance Full Load (power factor = 0.8) 6.1 hp
Setting Range	1.5 9.0 A
Full Load Amps Motor Use	6.5 A
Ambient Air Temperature	Operation -25 +70 °C Operation Compensated -40 + 80 °C
RoHS Status	Following EU Directive 2011/65/EU
Maximum Operating Voltage UL/CSA	Main Circuit 500 V AC
Ampere Rating UL/CSA	6.5 A
Connecting Capacity Main Circuit UL/CSA	Flexible with Ferrule 1x 24 14 AWG Flexible 1x 24 14 AWG Solid 1x 24 14 AWG
Connecting Capacity Control Circuit UL/CSA	Flexible with Ferrule 1x 24 14 AWG Flexible 16-8 AWG Solid 1x 24 14 AWG
Tightening Torque UL/CSA	Control Circuit 5 7 in-lb Main Circuit 5 7 in-lb
Standards	IEC/EN 60947-1 IEC/EN 60947-4-2 IEC/EN 61508 ISO 13849 UL 60947-1 UL 60947-4-2
Utilization	Motor Protection
Rated Operational Voltage	Main Circuit 500 V AC
Operational Voltage	Maximum 550 V AC Minimum 42 V AC
Rated Frequency	Main Circuit 50Hz Main Circuit 60 Hz
Rated Control Supply Voltage	24 V DC
Rated Input Voltage	Switching Threshold at Signal 0> -3 9.6 V Switching Threshold at Signal 1> 19.2 30 V
Rated Impulse Withstand Voltage	Main Circuit 6 kV

Specifications

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Classifications

ETIM 5.0	EC001037 - Motor starter combination
ETIM 6.0	EC001037 - Motor starter/Motor starter combination
ETIM 7	EC001037 - Motor starter/Motor starter combination
eClass	7.0 27370905

Dimensions

Product Net Width	22.5 mm
Product Net Height	99 mm
Product Net Depth / Length	114.5 mm
Product Net Weight	0.289 kg

Package Information

Package Level 1 Units	1 piece
Package Level 1 Width	150 mm
Package Level 1 Depth / Length	115 mm
Package Level 1 Height	34 mm
Package Level 1 Gross Weight	0.389 kg
Package Level 1 EAN	4013614515538

Safety Information

Safety Integrity Level (SIL)	3
Safety Category	3
Performance Level	Up to e
Mean Time to Dangerous Failure	Motor Protection 447 year Safe Shutdown 517 year
Mean Time to Failure	39.3 year
Probability of Dangerous Failure per Hour	3 hour
Diagnostic Coverage	0.99
Diagnostic Coverage Safe	0.41