HF0.6-ROLE-24VDC



Products + Low Voltage Products and Systems + Control Products + Motor Controllers + Motor Controllers

General Information	
Extended Product Type:	HF0.6-ROLE-24VDC
Product ID:	1SAT116000R1011
EAN:	4013614515514
Catalog Description:	HF0.6-ROLE Electronic Compact Starter 24 VDC
Long Description:	The HF-ROLE-range is our safety range with emergency stop function. It is used for forward and reverse running motors, as well as for switching non r esistive loads. With contactor and overload relay functionalities integrated i nto one device, the results are faster wiring times and fewer faults. The ran ge covers 0.6 A, 2.4 A and up to 9 A - for motors up to 3 kW – 500 V AC. T he integrated electronic overload protection has a wide setting range that e nables just three models to cover all requirements. Setting range of HF0.6-ROLE-24VDC is 0.075 A to 0.6 A. The control supply voltage is 24 V DC. F or the control and main connection points ABB offers screw connections. S afety Integrity Level 3 in accordance with functional safety standard IEC 61 508-1 and Performance Level 'e' in accordance with ISO 13849-1 are certified. Also ATEX is certified.

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85371098
Product Main Type:	HF
Product Name:	Electronic Starter
Popular Downloads	
Instructions and Manuals:	2CDC130007M0401
Instructions and Manuals (Part 2):	2CDC130006M0401
Dimension Diagram:	1SAT100401F0001
Dimensions	
Product Net Width:	22.5 mm
Product Net Height:	99 mm
Product Net Depth:	114.5 mm
Product Net Weight:	0.218 kg

Technical

Standards: Function:	IEC/EN 60947-1 IEC/EN 60947-4-2 IEC/EN 61508 ISO 13849 UL 60947-1 UL 60947-4-2
	Reversed-on-line starter with electronic overload protection and emergency stop function
Utilization:	Motor Protection
Rated Operational Voltage:	Main Circuit 500 V AC
Operational Voltage:	Maximum 550 V AC Minimum 42 V AC
Rated Frequency (f):	Main Circuit 50 Hz Main Circuit 60 Hz
Rated Control Supply Voltage (U _s):	24 V DC
Rated Input Voltage (U _{IN}):	Switching Threshold at Signal <0> -3 9.6 V Switching Threshold at Signal <1> 19.2 30 V
Rated Impulse Withstand Voltage (U _{imp}):	Main Circuit 6 kV
Rated Insulation Voltage (U _i):	500 V
Rated Operational Current AC-51 (l _e):	0.6 A
Rated Operational Current AC-53a (l _e):	0.6 A
Rated Control Supply Current (I _s):	0.04 A
Rated Uninterrupted Current (I _u):	0.6 A
Input Current:	0.003 A
Switching Frequency:	≤ 2 Hz 120 starts/min 7200 starts/h
Rated Operational Power AC-53a (P _e):	0.18 kW
Overvoltage Category:	
Overload Protection:	Electronic overload protection
Setting Range:	0.075 0.600 A
Trip Class:	class 10A
Number of Poles:	3
Power Loss:	Maximum 1,5 W Minimum 1,1 W
Number of Protected Poles:	3
Mechanical Durability:	10000 cycle
Electrical Durability:	3000000 cycle

Delay Time (?):	Off, Maximum, Switched Off via Control Input Voltage 40 ms Off, Maximum, Switched Off via Supply Voltage 500 ms Off, Typical, Switched Off via Control Input Voltage 30 ms Off, Typical, Switched Off via Supply Voltage 25 ms Off, Maximum, Switched Off with Pushbutton 3 second [unit of time] Off, Minimum, Switched Off with Pushbutton 0.5 second [unit of time]
Mounting on DIN Rail:	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting Position:	Position 1, load side bottom
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 1 2.5 mm² Flexible 1/2x 1 2.5 mm² Rigid 1x 0.5 4 mm²
Connecting Capacity Main Circuit:	Flexible with Ferrule 1x 2 2.5 mm² Flexible 1x 2 2.5 mm² Rigid 1x 2 2.5 mm²
Recommended Screw Driver:	Control Circuit M3 Main Circuit M3
Terminal Type:	Screw Terminals
Tightening Torque:	Control Circuit 0.5 0.6 N·m Main Circuit 0.5 0.6 N·m
Wire Stripping Length:	Control Circuit 8 mm Main Circuit 8 mm
Response Time:	Phase Asymmetry 33% 120 second [unit of time] Phase Asymmetry 67% 1.8 second [unit of time] Phase Failure 1.8 second [unit of time]
Pollution Degree:	2
Phase Loss Sensitive:	Yes
Degree of Protection:	Housing IP20 Main Circuit Terminals IP20
Short-Circuit Current Rating (SCCR):	(500 V AC, 30 A Class J or CC) 100 kA
afety Information	
Performance Level (PL):	Up to e
Safety Integrity Level (SIL):	3
Mean Time to Dangerous Failure (MTTF _d):	Motor Protection 447 year Safe Shutdown 517 year
Mean Time to Failure (MTTF):	39.3 year
Probability of Dangerous Failure per Hour (PFH _D):	3 hour
Diagnostic Coverage:	98.79 %

Maximum Operating Voltage UL/CSA:	Main Circuit 500 V AC
Horsepower Rating UL/CSA:	Nominal Switching Performance Full Load (power factor = 0.4) 0.4 Hp Nominal Switching Performance Full Load (power factor = 0.8) 0.6 Hp
Ampere Rating UL/CSA:	0.6 A
Full Load Amps Motor Use:	0.6 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
nvironmental	
Ambient Air Temperature:	Operation -25 +70 °C Operation Compensated -40 + 80 °C
RoHS Status:	Following EU Directive 2011/65/EU
Certificates and Declarations (I	Document Number)
ATEX Certificate:	1SAA918002-3901
CCC Certificate:	1SAA918005-3801
cUL Certificate:	cUL E191658
Declaration of Conformity - CE:	1SAD038501-0194
EAC Certificate:	1SAA918001-2701
Instructions and Manuals:	2CDC130007M0401
RoHS Information:	1SAD038501-0194
Container Information	
Package Level 1 Units:	1 piece
Package Level 1 Width:	150 mm
Package Level 1 Length:	115 mm
Package Level 1 Height:	34 mm
Package Level 1 Gross Weight:	0.318 kg
Package Level 1 EAN:	4013614515514
Classifications	
E-nummer:	3210498
ETIM 5:	EC001037 - Motor starter combination
ETIM 6:	EC001037 - Motor starter/Motor starter combination

ETIM 7:	EC001037 - Motor starter/Motor starter combination
eClass:	7.0 27370905
UNSPSC:	39121514

