HF9-R-24VDC



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

General Information

Extended Product Type: HF9-R-24VDC

Product ID: 1SAT144000R1011 EAN: 4013614515637

Catalog Description: HF9-R Electronic Compact Starter 24 VDC

Long Description: The HF-R-range is used for forward and reverse running motors, as well as

for switching non resistive loads. Without overload protection and setting r ange it is the most simple solution, which is as compact as the whole rang e. The control supply voltage is 24 V DC. For the control and main connect

ion points ABB offers screw connections.

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85371098

Product Main Type: HF

Product Name: Electronic Starter

Popular Downloads

Instructions and Manuals: 2CDC130015M0401

Dimension Diagram: 1SAT100401F0001

Dimensions

Product Net Width: 22.5 mm

Product Net Height: 99 mm

Product Net Depth: 114.5 mm

Product Net Weight: 0.174 kg

Technical

Standards: IEC/EN 60947-1

IEC/EN 60947-4-2

UL 60947-1 UL 60947-4-2

Function: Reversed-on-line-starter

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	9 A
Rated Operational Current AC-53a (l _e):	6.5 A
Rated Control Supply Current (I _s):	0.04 A
Rated Uninterrupted Current (I _u):	9 A
Input Current:	0.003 A
Switching Frequency:	≤ 2 Hz 120 starts/min 7200 starts/h
Rated Operational Power AC-53a (P _e):	3 kW
Overvoltage Category:	III
Overload Protection:	No overload protection
Trip Class:	None
Number of Poles:	3
Power Loss:	Maximum 14,6 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 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 mm ² Flexible 1/2x 1 2.5 mm ² Rigid 1x 0.5 4 mm ²
Connecting Capacity Main Circuit:	Flexible with Ferrule 1x 2 2.5 mm ² Flexible 1x 2 2.5 mm ² Rigid 1x 2 2.5 mm ²

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
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
Safety Information	
Mean Time to Failure (MTTF):	39.6 year
Technical UL/CSA	
Maximum Operating Voltage UL/CSA:	Main Circuit 500 V AC
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
Ampere Rating UL/CSA:	6.5 A
Full Load Amps Motor Use:	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
Environmental	
Ambient Air Temperature:	Operation -25 +70 °C Operation Compensated -40 + 80 °C
RoHS Status:	Following EU Directive 2011/65/EU
Certificates and Declarations (E	Document Number)
CCC Certificate:	1SAA918005-3801
cUL Certificate:	cUL E191658
Declaration of Conformity - CE:	1SAD038501-0195

EAC Certificate:	1SAA918001-2701
Instructions and Manuals:	2CDC130015M0401
RoHS Information:	1SAD038501-0195

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:	0.274 kg
Package Level 1 EAN:	4013614515637

Classifications

E-nummer:	3210494
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

