

PRODUCT-DETAILS

HF9-R-24VDC

HF9-R Electronic Compact Starter 24 VDC



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 range it is the most simple solution, which is as compact as the whole range. The control supply voltage is 24 V DC. For the control and main connection 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	2CDC130014M0401 2CDC130009M0401 2CDC130013M0401 2CDC130007M0401
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2CDC130015M0401

Dimension Diagram

1SAT100401F0001

Dimensions

Product Net Width	22.5 mm
Product Net Height	99 mm
Product Net Depth / Length	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
	9 A
	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	30000000 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
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

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

Safety Information

Mean Time to Failure (MTTF)	39.6 year
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Environmental

Ambient Air Temperature	Operation -25 ... +70 °C
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Operation Compensated -40 ... + 80 °C

RoHS Status

Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

cUL Certificate	cUL E191658
Declaration of Conformity - CCC	2020970304003456
Declaration of Conformity - CE	1SAD038501-0195
EAC Certificate	1SAA918001-2701
Instructions and Manuals	2CDC130014M0401 2CDC130009M0401 2CDC130013M0401 2CDC130007M0401 2CDC130015M0401
RoHS Information	1SAD038501-0195

Container 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	0.274 kg
Package Level 1 EAN	4013614515637

Classifications

ETIM 5	EC001037 - Motor starter combination
ETIM 6	EC001037 - Motor starter/Motor starter combination
ETIM 7	EC001037 - Motor starter/Motor starter combination
eClass	V11.0 : 27370905
UNSPSC	39121521
IDEA Granular Category Code (IGCC)	4727 >> Motor starter controls
E-Number (Finland)	3707546
E-Number (Sweden)	3210494

Categories

Low Voltage Products and Systems → Control Products → Motor Controllers → Motor Controllers → Electronic Starters

