

PRODUCT-DETAILS

## HF2.4-ROL-24VDC HF2.4-ROL-24VDC Electronic Compact Starter 24 VDC



General Information	
Extended Product Type	HF2.4-ROL-24VDC
Product ID	1SAT125000R1011
EAN	4013614515552
Catalog Description	HF2.4-ROL-24VDC Electronic Compact Starter 24 VDC
Long Description	The HF-ROL-range is used for forward and reverse running motors, as well as for switching 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 HF2.4-ROL-24VDC is 0.18 A to 2.4 A. The control supply voltage is 24 V DC. For the control and main connection points ABB offers screw connections. ABB also offers a HF-ROLE safety range with emergency stop function. This offers Safety Integrity Level 3, in accordance with functional safety standard IEC 61508-1 and Performance Level 'e' in accordance with ISO 13849-1. The safety range is ATEX- certified.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85371098
Product Main Type	HF
Product Name	Electronic Starter

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Popular Downloads	
Instructions and Manuals	2CDC130014M040 2CDC130009M040 2CDC130013M040 2CDC130007M040 2CDC130015M040
Dimension Diagram	1SAT100401F000
Dimensions	
Product Net Width	22.5 m
Product Net Height	99 mi
Product Net Depth / Length	114.5 m
Product Net Weight	0.219 k
Technical	
Standards	IEC/EN 60947- IEC/EN 60947-4- UL 60947-4- UL 60947-4-
Function	Reversed-on-line starter with overload protection
Utilization	Motor Protectio
Rated Operational Voltage	Main Circuit 500 V A
Operational Voltage	Maximum 550 V A Minimum 42 V A
Rated Frequency (f)	Main Circuit 50 H Main Circuit 60 H
Rated Control Supply Voltage (U <sub>s</sub> )	24 V D
Rated Input Voltage (U <sub>IN</sub> )	Switching Threshold at Signal <0> -3 9.6 Switching Threshold at Signal <1> 19.2 30
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	Main Circuit 6 k
Rated Insulation Voltage (U <sub>i</sub> )	500
	2.4
Rated Control Supply Current (I <sub>s</sub> )	<u> </u>
Rated Uninterrupted Current (I <sub>u</sub> )	2.4
Input Current	0.003
Switching Frequency	≤ ≥ ⊢ 120 starts/mi 7200 starts/
Rated Operational Power AC-53a (P <sub>e</sub> )	0.75 k\
Overvoltage Category	
Overload Protection	Electronic overload protectio 0.18 2.4
Setting Range Trip Class	0.18 2.4 class 10
Number of Poles	
Power Loss	Maximum 3.3 \ Minimum 1.1 \
Number of Protected Poles	
Mechanical Durability Electrical Durability	10000 cycl 30000000 cycl
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Delay Time (T)	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	1
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 mm <sup>2</sup> Flexible 1x 2 2.5 mm <sup>2</sup> Rigid 1x 2 2.5 mm <sup>2</sup>
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
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) 1.2 Hp Nominal Switching Performance Full Load (power factor = 0.8) 2.2 Hp
Full Load Amps Motor Use	2.4 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

Environmental	
Ambient Air Temperature	Operation -25 +70 °C Operation Compensated -40 + 80 °C
Maximum Operating Altitude Permissible	Without Derating 2000 m

Material Compliance	
Conflict Minerals	
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## HF2.4-ROL-24VDC

Reporting Template (CMRT)	
RoHS Information	1SVD981001-4401
RoHS Status	Following EU Directive 2011/65/EU
Toxic Substances Control Act - TSCA	2CMT2023-006538
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations	
cUL Certificate	cUL E191658
Declaration of Conformity - CCC	2020970304003456
Declaration of Conformity - CE	1SAD938504-0195
Declaration of Conformity - UKCA	1SAD938501-1195

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	0.319 kg
Package Level 1 EAN	4013614515552

Classifications	
Object Classification Code	В
ETIM 6	EC001037 - Motor starter/Motor starter combination
ETIM 7	EC001037 - Motor starter/Motor starter combination
ETIM 8	EC001037 - Motor starter/Motor starter combination
eClass	V11.0 : 27370905
UNSPSC	39121521
IDEA Granular Category Code (IGCC)	4727 >> Motor starter controls
E-Number (Finland)	3707548
E-Number (Sweden)	3210496

## Categories

 $\label{eq:low-voltage-roducts} \text{Low Voltage Products} \rightarrow \text{Motor Controllers} \rightarrow \text{Motor Controllers} \rightarrow \text{Electronic Starters}$ 

