

PRODUCT-DETAILS

EF65-70

EF65-70 Electronic Overload Relay



Canara	l Information	

Extended Product Type	EF65-70
Product ID	1SAX331001R1101
EAN	4013614442254
Catalog Description	EF65-70 Electronic Overload Relay

Long Description

The EF65 is an self-supplied electronic overload relay, which means no extra external supply is needed. It offers reliable and fast protection for motors in the event of overload or phase failure. Easy to use like a thermal overload relay and compatible with standard motor applications, the electronic overload relay is convincing, above all, due to its wide setting range, high accuracy, high operational temperature range and the possibility to select a trip class (10E, 20E, 30E). Further features are the temperature compensation, trip contact (NC), signal contact (NO), automatic- or manual reset selectable, trip-free mechanism, STOP- and Test function and a trip indication. The overload relays are connected directly to the contactors. Single mounting kits are available as accessory. The EF65, EF96 and EF146have ATEX and IECEx certification 1)

1) ATEX is valid for products produced from week 42, 2014. IECEx is valid for products produced from week 15, 2017.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Dimensions

Product Net Width	70 mm
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Product Net Height	131.2 mm
Product Net Depth / Length	105.2 mm
Product Net Weight	0.821 kg

Popular Downloads	
Data Sheet, Technical Information	2CDC107041D0201
Data Sheet, Technical	1SAX100509F0001
Information (Part 2)	1SAX100510F0001
Instructions and Manuals	2CDC107026M6803
Instructions and	2CDC107043M6801
Manuals (Part 2)	
Dimension Diagram	1SAX300405F0001

Technical	
Setting Range	25 70 A
Rated Operational Voltage	Auxiliary Circuit 600 V AC/DC Main Circuit 1000 V AC
Rated Operational Current (I _e)	70 A
Rated Operational Current AC-3 (I _e)	70 A
Rated Frequency (f)	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz
Rated Impulse Withstand Voltage (U _{imp})	Auxiliary Circuit 6 kV Main Circuit 8 kV
Rated Insulation Voltage (U _i)	1000 V
Number of Poles Number of Auxiliary Contacts NC	
Number of Auxiliary Contacts NO	1
Number of Protected Poles	3
Conventional Free-air Thermal Current (I _{th})	Auxiliary Circuit NC 6 A Auxiliary Circuit NO 6 A
Rated Operational Current AC-15 (I _e)	(240 V) NC 3 A (240 V) NO 3 A (400 V) NC 1.1 A (400 V) NO 1.1 A (500 V) NC 0.75 A (500 V) NO 0.75 A
Rated Operational Current DC-13 (I _e)	(125 V) NC 0.55 A (125 V) NO 0.5 A (24 V) NC 1.5 A (24 V) NO 1.5 A (250 V) NC 0.27 A (250 V) NO 0.27 A (60 V) NC 0.55 A (60 V) NO 0.55 A
Degree of Protection	Housing IP20 Main Circuit Terminals IP10
Pollution Degree	3
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 2.5 mm ²

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	Flexible 1/2x 0.75 2.5 mm² Rigid 1/2x 1 4 mm²
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 4 35 mm ² Flexible with Ferrule 2x 2.5 35 mm ²
Than on care	Flexible with Insulated Ferrule 1/2x 4 35 mm ²
	Flexible 1/2x 4 35 mm ²
	Rigid 1/2x 4 35 mm²
Tightening Torque	Auxiliary Circuit 0.8 1.2 N⋅m
	Main Circuit 4 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm
5	Main Circuit 20 mm
Recommended Screw	Auxiliary Circuit Pozidriv 2
Driver	Main Circuit Pozidriv 2
Mounting Position	Position 1 to 6
Power Loss	at Rated Operating Conditions per Pole 0.056 0.441 W
Suitable For	AF40
	AF52
	AF65
Standards	IEC/EN 60947-1
	IEC/EN 60947-4-1
	IEC/EN 60947-5-1
	UL 60947-1
	UL 60947-4-1

Mayimum Operating	Main Circuit 600 V AC
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Ampere Rating UL/CSA	70 A
Contact Rating UL/CSA	(NC:) B600 (NC:) Q600 (NO:) B600 (NO:) Q600
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 10-2 AWG Stranded 1/2x 10-2 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Flexible 1/2x 18-10 AWG Stranded 1/2x 18-10 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 7 1 in·lb Main Circuit 55 in·lb

Environmental	
Ambient Air Temperature	Operation -25 +70 °C Operation Compensated -25 +70 °C Storage -50 +85 °C
Ambient Air	Yes
Temperature	
Compensation	
Maximum Operating Altitude Permissible	2000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 25g
Resistance to Vibrations acc. to IEC 60068-2-6	5g / 3 150 Hz
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)	
ABS Certificate	1SAA941002-0102
ATEX Certificate	1SAA941004-3901
BV Certificate	1SAA941002-0201
CB Certificate	1SAA942013-2001
CCC Certificate	1SAA942006-3803

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CCS Certificate	1SAA941001-0901
cUL Certificate	cUL_E48139
Declaration of	1SAD938515-0180
Conformity - CE	1SAD938509-0180
DNV Certificate	1SAA941003-0301
DNV GL Certificate	1SAA941003-0302
EAC Certificate	1SAA941003-2701
GOST Certificate	1SAA941001-2701
Instructions and	2CDC107026M6803
Manuals	
Instructions and	2CDC107043M6801
Manuals (Part 2)	
LR Certificate	1SAA941002-0501
RINA Certificate	RINA_ELE376813CS
RMRS Certificate	1SAA941001-0701
RoHS Information	1SAD938513-0180
UL Certificate	UL_E48139

Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	139 mm
Package Level 1 Height	107 mm
Package Level 1 Depth / Length	75.5 mm
Package Level 1 Gross Weight	0.876 kg
Package Level 1 EAN	4013614442254
Package Level 2 Units	20 piece
Package Level 2 Width	393 mm
Package Level 2 Height	227 mm
Package Level 2 Depth / Length	290 mm
Package Level 2 Gross Weight	18.803 kg
Package Level 2 EAN	4013614483370

Classifications	
Object Classification Code	F
ETIM 4	EC001080 - Electronic overload relay
ETIM 5	EC001080 - Electronic overload relay
ETIM 6	EC001080 - Electronic overload relay
ETIM 7	EC001080 - Electronic overload relay
eClass	7.0 27371502
UNSPSC	39121521
E-Number (Sweden)	3210245

Categories

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