

PRODUCT-DETAILS

EF96-100

EF96-100 Electronic Overload Relay



Canara	l Information	

EAN	4013614442247
Product ID	1SAX341001R1101
Extended Product Type	EF96-100

Catalog Description

EF96-100 Electronic Overload Relay

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)

The EF96 is an self-supplied electronic overload relay, which means no extra external

Long Description

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

Product Net Height	132.7 mm
Product Net Depth / Length	105.2 mm
Product Net Weight	0.802 kg

Popular Downloads	
Data Sheet, Technical Information	2CDC107041D0201
Data Sheet, Technical Information (Part 2)	1SAX100509F0001 1SAX100510F0001
Instructions and Manuals	2CDC107027M6803
Instructions and Manuals (Part 2)	2CDC107043M6801
Dimension Diagram	1SAX300406F0001

Technical	
Setting Range	36 100 A
Rated Operational Voltage	Auxiliary Circuit 600 V AC/DC Main Circuit 1000 V AC
Rated Operational Current (I _e)	100 A
Rated Operational Current AC-3 (I _e)	100 A
Rated Frequency (f)	Auxiliary Circuit 50 H: Auxiliary Circuit 60 H: Auxiliary Circuit DC Main Circuit 50 H: Main Circuit 60 H:
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	1
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
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	Flexible with Ferrule 2x 4 35 mm ²
Main Circuit	Flexible with Ferrule 1x 4 50 mm ²
	Flexible with Insulated Ferrule 2x 2 35 mm ²
	Flexible with Insulated Ferrule 1x 4 50 mm ²
	Flexible 1x 4 50 mm ²
	Flexible 2x 4 35 mm ²
	Rigid 1x 4 70 mm ²
	Rigid 2x 4 35 mm²
Tightening Torque	Auxiliary Circuit 0.8 1.2 N·m Main Circuit 6 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm
11 3 3	Main Circuit 20 mm
Recommended Screw	Auxiliary Circuit Pozidriv 2
Driver	Main Circuit Hexagon 4
Mounting Position	Position 1 to 6
Power Loss	at Rated Operating Conditions per Pole 0.117 0.9 W
Suitable For	AF80
	AF96
Standards	IEC/EN 60947-1
	IEC/EN 60947-4-1
	IEC/EN 60947-5-1
	UL 60947-1
	UL 60947-4-1

Maximum Operating	Main Circuit 600 V AC
Voltage UL/CSA	
Ampere Rating UL/CSA	100 A
Contact Rating UL/CSA	(NC:) B600
	(NC:) Q600
	(NO:) B600
	(NO:) Q600
Connecting Capacity	Flexible 1/2x 10-2 AWG
Main Circuit UL/CSA	Stranded 1/2x 10-2 AWG
Connecting Capacity	Flexible 1/2x 18-10 AWG
Auxiliary Circuit UL/CSA	Stranded 1/2x 18-10 AWG
Tightening Torque	Auxiliary Circuit 7 1 in·lb
UL/CSA	Main Circuit 70 in lb

Environmental	
Ambient Air Temperature	Operation -25 +70 °C Operation Compensated -25 +70 °C Storage -50 +85 °C
Ambient Air Temperature Compensation	Yes
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
CCS Certificate	1SAA941001-0901
cUL Certificate	cUL_E48139
Declaration of Conformity - CE	1SAD938516-0180 1SAD938508-0180
DNV Certificate	1SAA941003-0301
DNV GL Certificate	1SAA941003-0302
EAC Certificate	1SAA941003-2701
GOST Certificate	1SAA941001-2701
Instructions and Manuals	2CDC107027M6803
Instructions and Manuals (Part 2)	2CDC107043M6801
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	0.857 kg
Package Level 1 EAN	4013614442247
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	17.703 kg
Package Level 2 EAN	4013614483387

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)	3210246

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Categories

 $\textbf{Low Voltage Products and Systems} \rightarrow \textbf{Control Products} \rightarrow \textbf{Contactors} \rightarrow \textbf{Electronic Overload Relays}$

