

PRODUCT-DETAILS

EF45-30

EF45-30 Electronic Overload Relay



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General	Inform	ation

Extended Product Type	EF45-30
Product ID	1SAX221001R1101
EAN	4013614403965
Catalog Description	EF45-30 Electronic Overload Relay

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

The EF19-0.32 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

indication. The overload relays are connected directly to the contactors. Single mounting kits are available as accessory. The EF19 and EF45 have ATEX and IECEx certification 1)

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	1 piece
Quantity	
Customs Tariff Number	85364900

Dimensions

El 43 30	
Product Net Width	45 mm
Product Net Height	104.7 mm
Product Net Depth / Length	86 mm
Product Net Weight	0.362 kg
Popular Downloads	
Data Sheet, Technical Information	2CDC107025D0201
Data Sheet, Technical Information (Part 2)	1SAX100509F0001 1SAX100510F0001
Instructions and Manuals	2CDC107023M6803
Instructions and Manuals (Part 2)	2CDC107043M6801
Dimension Diagram	1SAX200403F0001
Technical	
Setting Range	9.0 30 A
Rated Operational Voltage	Auxiliary Circuit 600 V AC/DC Main Circuit 690 V AC
Rated Operational Current (I _e)	30 A
Rated Operational Current AC-3 (I _e)	30 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 6 kV
) Rated Insulation Voltage (U_i)	690 V
Number of Poles	3
Number of Auxiliary Contacts NC	1
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	IP20

IP20

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Degree of Protection

Auxiliary Circuit	Flexible with Insulated Ferrule 1/2x 0.75 2.5 mm² Flexible 1/2x 0.75 2.5 mm² Rigid 1/2x 1 4 mm²
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 2.5 10 mm² Flexible with Insulated Ferrule 1/2x 2.5 10 mm² Flexible 1/2x 2.5 10 mm² Rigid 1/2x 2.5 16 mm²
Tightening Torque	Auxiliary Circuit 0.8 1.2 N·m Main Circuit 2.3 2.6 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 13 mm
Recommended Screw Driver	Auxiliary Circuit Pozidriv 2 Main Circuit Pozidriv 2
Mounting Position	Position 1 to 6
Power Loss	at Rated Operating Conditions per Pole 0.021 0.234 W
Suitable For	AF26 AF30 AF38
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Ampere Rating UL/CSA	30 A
Contact Rating UL/CSA	(NC:) B600 (NC:) Q600 (NO:) B600 (NO:) Q600
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 14-6 AWG Stranded 1/2x 14-6 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 20 22 in·lb

Environmental	
Ambient Air	Operation -25 +70 °C
Temperature	Operation Compensated -25 +70 °C Storage -50 +80 °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	1SAA964003-2002
CCC Certificate	1SAA942002-3801

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CCS Certificate	1SAA941001-0901
cUL Certificate	cUL_E48139
Declaration of Conformity - CE	1SAD938516-0180 1SAD938509-0180
DNV Certificate	1SAA941003-0301
DNV GL Certificate	1SAA941003-0302
EAC Certificate	1SAA941003-2701
GOST Certificate	1SAA941001-2701
Instructions and Manuals	2CDC107023M6803
Instructions and Manuals (Part 2)	2CDC107043M6801
LR Certificate	1SAA941002-0501
RINA Certificate	RINA_ELE376813CS
RMRS Certificate	1SAA964000-0703
RoHS Information	1SAD938513-0180
UL Certificate	UL E48139

Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	111 mm
Package Level 1 Height	51.5 mm
Package Level 1 Depth / Length	93 mm
Package Level 1 Gross Weight	0.398 kg
Package Level 1 EAN	4013614403965
Package Level 2 Units	50 piece
Package Level 2 Width	558 mm
Package Level 2 Height	189 mm
Package Level 2 Depth / Length	263 mm
Package Level 2 Gross Weight	20.463 kg
Package Level 2 EAN	4013614483332

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)	3224185

Categories

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