EF45-30



General Information Extended Product Type: EF45-30 Product ID: 1SAX221001R1101 EAN: 4013614403965 Catalog Description: EF45-30 Electronic Overload Relay The EF45-30 is an self-supplied electronic overload relay, which means no extra external Long Description: 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.

Categories

Products » Low Voltage Products and Systems » Control Products » Contactors » Electronic Overload Relays

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900
EAN:	4013614403965

Dimensions

Product Net Height:	104.7 mm
Product Net Depth:	86 mm
Product Net Weight:	0.362 kg
Product Net Width:	45 mm

Container Information

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

Technical

Rated Operational Voltage:	Auxiliary Circuit 600 V AC/DC Main Circuit 690 V AC
Rated Operational Current (Ie):	30 A
Rated Operational Current AC-3 (Ie)	: 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 (Ui):	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 (l _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
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 Flexible 1/2x 0.75 2.5 mm ² Rigid 1/2x 1 4 mm ²
Connecting Capacity Main Circuit:	Flexible with Ferrule 1/2x 2.5 10 mm ² Flexible with Insulated Ferrule 1/2x 2.5 10 mm ² Flexible 1/2x 2.5 10 mm ² Rigid 1/2x 2.5 16 mm ²
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
Setting Range:	9 30 A
Environmental	
Ambient Air Temperature	Yes
Compensation: Maximum Operating Altitude	2000 m
Permissible:	
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/EC
Ambient Air Temperature:	Operation -25 +70 °C
	Operation Compensated -25 +70 °C Storage -50 +80 °C
Technical UL/CSA	Operation Compensated -25 +70 °C
Technical UL/CSA Ampere Rating UL/CSA:	Operation Compensated -25 +70 °C
	Operation Compensated -25 +70 °C Storage -50 +80 °C
Ampere Rating UL/CSA: Contact Rating UL/CSA: Connecting Capacity Main Circuit UL/CSA:	Operation Compensated -25 +70 °C Storage -50 +80 °C 30 A (NC:) B600 (NC:) Q600 (NO:) B600 (NO:) Q600 Flexible 1/2x 14-6 AWG Stranded 1/2x 14-6 AWG
Ampere Rating UL/CSA: Contact Rating UL/CSA: Connecting Capacity Main Circuit UL/CSA: Connecting Capacity Auxiliary Circuit UL/CSA:	Operation Compensated -25 +70 °C Storage -50 +80 °C 30 A (NC:) B600 (NC:) Q600 (NC:) B600 (NO:) B600 (NO:) Q600 Flexible 1/2x 14-6 AWG Stranded 1/2x 14-6 AWG Flexible 1/2x 18-10 AWG
Ampere Rating UL/CSA: Contact Rating UL/CSA: Connecting Capacity Main Circuit UL/CSA: Connecting Capacity Auxiliary	Operation Compensated -25 +70 °C Storage -50 +80 °C 30 A (NC:) B600 (NC:) Q600 (NC:) B600 (NO:) B600 (NO:) Q600 Flexible 1/2x 14-6 AWG Stranded 1/2x 14-6 AWG Flexible 1/2x 18-10 AWG
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Ampere Rating UL/CSA: Contact Rating UL/CSA: Connecting Capacity Main Circuit UL/CSA: Connecting Capacity Auxiliary Circuit UL/CSA: Tightening Torque UL/CSA: Maximum Operating Voltage	Operation Compensated -25 +70 °C Storage -50 +80 °C 30 A (NC:) B600 (NC:) Q600 (NC:) B600 (NC:) Q600 Flexible 1/2x 14-6 AWG Stranded 1/2x 14-6 AWG Flexible 1/2x 18-10 AWG Stranded 1/2x 18-10 AWG Auxiliary Circuit 7 1 in·lb Main Circuit 600 V AC
Ampere Rating UL/CSA: Contact Rating UL/CSA: Connecting Capacity Main Circuit UL/CSA: Connecting Capacity Auxiliary Circuit UL/CSA: Tightening Torque UL/CSA: Maximum Operating Voltage UL/CSA: <u>Certificates and Declarations (Doc Data Sheet, Technical Information</u>	Operation Compensated -25 +70 °C Storage -50 +80 °C 30 A (NC:) B600 (NC:) Q600 (NC:) B600 (NC:) Q600 Flexible 1/2x 14-6 AWG Stranded 1/2x 14-6 AWG Flexible 1/2x 18-10 AWG Stranded 1/2x 18-10 AWG Auxiliary Circuit 7 1 in·lb Main Circuit 600 V AC
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Instructions and Manuals (Part 2):

2CDC107043M6801

ABS Certificate:	1SAA941002-0101
ATEX Certificate:	1SAA941004-3901
BV Certificate:	1SAA941002-0201
CB Certificate:	1SAA964003-2002
CCC Certificate:	1SAA942002-3801
cUL Certificate:	cUL_E48139
Data Sheet, Technical Information:	2CDC107025D0201
Declaration of Conformity - CE:	1SAD938512-0180 1SAD938509-0180
DNV Certificate:	1SAA941003-0301
EAC Certificate:	1SAA941003-2701
GOST Certificate:	1SAA941001-2701
LR Certificate:	1SAA941002-0501
RINA Certificate:	RINA_ELE376813CS
RMRS Certificate:	1SAA941001-0701
RoHS Information:	1SAA942001-4406
UL Certificate:	UL_E48139

Classifications

E-nummer:	3224185
ETIM 4:	EC001080 - Electronic overload relay
ETIM 5:	EC001080 - Electronic overload relay
ETIM 6:	EC001080 - Electronic overload relay
eClass:	7.0 27371502
UNSPSC:	39121521
Object Classification Code:	F

