

EF45-30

General Information

Extended Product Type:	EF45-30
Product ID:	1SAX221001R1101
EAN:	4013614403965
Catalog Description:	EF45-30 Electronic Overload Relay
Long Description:	<p>The EF45-30 is a 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.</p>



Categories

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

Ordering

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

Dimensions

Product Net Width:	45.0 mm
Product Net Height:	104.7 mm
Product Net Depth:	86.0 mm
Product Net Weight:	0.362 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	111.0 mm
Package Level 1 Height:	51.5 mm
Package Level 1 Length:	93.0 mm
Package Level 1 Gross Weight:	0.398 kg
Package Level 2 Units:	50 piece
Package Level 2 Width:	558.0 mm

Package Level 2 Height:	189.0 mm
Package Level 2 Length:	263.0 mm
Package Level 2 Gross Weight:	20.463 kg
Package Level 2 EAN:	4013614483332

Technical

Setting Range:	9.00 ... 30.0 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):	30.00 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 6.00 A Auxiliary Circuit NO 6.00 A
Rated Operational Current AC-15 (I_e):	(240V) NC 3.000 A (240V) NO 3.000 A (400V) NC 1.100 A (400V) NO 1.100 A (500V) NC 0.750 A (500V) NO 0.750 A
Rated Operational Current DC-13 (I_e):	(125V) NC 0.550 A (125V) NO 0.500 A (24V) NC 1.500 A (24V) NO 1.500 A (250V) NC 0.270 A (250V) NO 0.270 A (60V) NC 0.550 A (60V) NO 0.550 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
 Position 1 to 6
 Per Pole 0.021 ... 0.234 W
 AF26
 AF30
 AF38
 IEC/EN 60947-1
 IEC/EN 60947-4-1
 IEC/EN 60947-5-1
 UL 60947-1
 UL 60947-4-1

Mounting Position:**Power Loss:****Suitable For:****Standards:****Environmental**

Ambient Air Temperature: Operation -25 ... +70 °C
 Operation Compensated -25 ... +70 °C
 Storage -50 ... +80 °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/EC

Technical UL/CSA

Maximum Operating Voltage UL/CSA: Main Circuit 600 V AC

Ampere Rating UL/CSA: 30.00 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

Certificates and Declarations (Document Number)

ABS Certificate: 1SAA941002-0101

ATEX Certificate: 1SAA941002-3901

BV Certificate: 1SAA941002-0201

CB Certificate: 1SAA964003-2002

CCC Certificate: 1SAA942002-3801

cUL Certificate: cUL_E48139

Declaration of Conformity - CE: 1SAD938506-0180
 1SAD938508-0180

DNV Certificate: 1SAA941003-0301

GOST Certificate: 1SAA941001-2701

LR Certificate:	1SAA941002-0501
RINA Certificate:	RINA_ELE376813CS
RMRS Certificate:	1SAA964000-0702
RoHS Information:	1SAA942001-4405
UL Certificate:	UL_E48139

Classifications

Object Classification Code:	F
E-nummer:	3224185
ETIM 4.0:	EC001080 - Electronic overload relay
ETIM 5.0:	EC001080 - Electronic overload relay
