EF45-30



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

General Information

Extended Product Type: EF45-30

Product ID: 1SAX221001R1101 EAN: 4013614403965

Catalog Description: EF45-30 Electronic Overload Relay

Long Description: 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 of overload or phase failure. Easy to use like a thermal overload relay and compatible with standard moto r 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 tri p class (10E, 20E, 30E). Further features are the temperature compensation, trip contact (NC), signal contact (NO), automatic- or manual reset selectable, trip-free mechanism, STO P- and Test function and a trip indication. The overload relays are connected directly to th e contactors. Single mounting kits are available as accessory. The EF19 and EF45 have A TEX 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:	45 mm
Product Net Height:	104.7 mm
Product Net Depth:	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 (Part 2):	2CDC107043M6801
Dimension Diagram:	1SAX200403F0001

Т

Dimension Diagram:	1SAX200403F0001
Technical	
Setting Range:	9 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
N 1 (B ((B	^

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 (l _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 mm² 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 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
nvironmental	
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/EU
echnical 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	Flexible 1/2x 18-10 AWG
UL/CSA:	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:	1SAA941004-3901
BV Certificate:	1SAA941002-0201
CB Certificate:	1SAA964003-2002
CCC Certificate:	1SAA942002-3801
CCS Certificate:	1SAA941001-0901
cUL Certificate:	cUL_E48139
Declaration of Conformity - CE:	1SAD938513-0180
	1SAD938509-0180
DNV Certificate:	1SAA941003-0301
DNV GL Certificate:	1SAA941003-0302
EAC Certificate:	1SAA941003-2701
GOST Certificate:	1SAA941001-2701
Instructions and Manuals:	2CDC107023M6803
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 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 Length:	263 mm
Package Level 2 Gross Weight:	20.463 kg
Package Level 2 EAN:	4013614483332

Classifications

Object Classification Code:	F
E-nummer:	3224185
ΕΤΙΜ 4 :	EC001080 - Electronic overload relay
CTIMA C.	E0004000 Et. (C. (C. (C. (C. (C. (C. (C. (C. (C. (C

ETIM 5:	EC001080 - Electronic overload relay
ЕТІМ 6:	EC001080 - Electronic overload relay
eClass:	7.0 27371502
UNSPSC:	39121521

