



Descriptors

Alternate Catalog No. EF19-2.7 Catalog No. 1SAX121001R1103

Description: EF19-2.7 Electronic Overload Relay

UPC No 4013614404009

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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 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 EF19 and EF45 have ATEX 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.

Category	Overload Relays	
Specifications		
Product Name	Electronic Overload Relay	
Rated Operational Voltage	Auxiliary Circuit 600 V AC / DC Main Circuit 690 V AC	
Rated Operational Current	2.7 A	
Setting Range	0.80 2.7 A	
Rated Impulse Withstand Voltage	Auxiliary Circuit 6 kV Main Circuit 6 kV	
Rated Insulation Voltage	690 V	
Number of Poles	3	
Number of Auxiliary Contacts NC	1	
Number of Auxiliary Contacts NO	1	
Number of Protected Poles	3	
Trip Class	class 10E class 20E class 30E	
Conventional Free-air Thermal Current	Auxiliary Circuit NC 6 A Auxiliary Circuit NO 6 A	
Rated Frequency	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50Hz Main Circuit 60 Hz	
Rated Operational Current AC-3	2.7 A	
Degree of Protection	IP20	
Pollution Degree	3	
Suitable For	AF09 AF12 AF16 AF26 (240 V) NC 3 A	

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(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 AC-15

Specifications	
Rated Operational Current DC-13	(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
Connecting Capacity Main 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 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
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 9 mm
Tightening Torque	Auxiliary Circuit 0.8 1.2 N·m Main Circuit 0.8 1.5 N·m
Mounting Position	Position 1 to 6
Power Loss	at Rated Operating Conditions per Pole 0.005 0.058 W
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
Recommended Screw Driver	Auxiliary Circuit Pozidriv 2 Main Circuit Pozidriv 2
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Ampere Rating UL/CSA	2.7 A
Contact Rating UL/CSA	(NC:) B600 (NC:) Q600 (NO:) B600 (NO:) Q600
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 16-10 AWG Stranded 1/2x 16-10 AWG Operation -25 +70 °C
Ambient Air Temperature	Operation Compensated -25 +70 °C Storage -50 +80 °C
Ambient Air Temperature Compensation	Yes
Connecting Capacity Auxiliary Circuit UL/CSA	Flexible 1/2x 18-10 AWG Stranded 1/2x 18-10 AWG
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 25g
Maximum Operating Altitude Permissible	2000 m
RoHS Status	Following EU Directive 2011/65/EU
Resistance to Vibrations acc. to IEC 60068-2-6	3g / 3 150 Hz
Tightening Torque UL/CSA	Auxiliary Circuit 7 1 in·lb Main Circuit 7 13 in·lb

Classifications	
ETIM 5.0	EC001080 - Electronic overload relay
ETIM 6.0	EC001080 - Electronic overload relay
ETIM 7	EC001080 - Electronic overload relay
eClass	7.0 27371502
ETIM 4	EC001080 - Electronic overload relay

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Dimensions	
Product Net Width	44.4 mm
Product Net Height	85 mm

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Object Classification Code

Dimensions	
Product Net Weight	0.158 kg
Product Net Depth / Length	59.3 mm

Package Information		
Package Level 1 Units	1 piece	
Package Level 1 Width	91 mm	
Package Level 1 Depth / Length	68 mm	
Package Level 1 Gross Weight	0.183 kg	
Package Level 1 EAN	4013614404009	
Package Level 1 Height	51.5 mm	
Package Level 2 Width	463 mm	
Package Level 2 Units	100 piece	
Package Level 2 Depth / Length	263 mm	
Package Level 2 EAN	4013614483288	
Package Level 2 Gross Weight	18.863 kg	
Package Level 2 Height	276 mm	

Ordering	
ECN	N
Customs Tariff Number	85364900
ECCN	N
ABB MDF Code	3DL - Relays (LV / Control + Protection)

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