Automatización Eléctrica
Especialistas en Automatización

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EF205-210

General Information

Extended Product Type:	EF205-210
Product ID:	1SAX531001R1101
EAN:	4013614442223
Catalog Description:	EF205-210 Electronic Overload Relay
Long Description:	The EF205-210 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.

Categories

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

Ordering

EAN:	4013614442223
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	105 mm
Product Net Height:	171 mm
Product Net Depth:	122.8 mm
Product Net Weight:	1.256 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	195 mm
Package Level 1 Height:	199 mm
Package Level 1 Length:	140 mm
Package Level 1 Gross Weight:	1.624 kg

Technical

Setting Range:	63 ... 210 A
Rated Operational Voltage:	Auxiliary Circuit 600 V AC/DC Main Circuit 1000 V AC
Rated Operational Current (I_e):	210 A
Rated Operational Current AC-3 (I_e):	210 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 8 kV
Rated Insulation Voltage (U_i):	1000 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:	Housing IP20 Main Circuit Terminals IP00
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:	Hole Diameter > 8 mm² Rigid or Flexible with Cable Lug 1x 16 ... 185 mm² Rigid or Flexible with Cable Lug 2x 16 ... 120 mm²
Tightening Torque:	Auxiliary Circuit 0.8 ... 1.2 N·m Main Circuit 18 N·m
Wire Stripping Length:	Auxiliary Circuit 9 mm
Recommended Screw Driver:	Auxiliary Circuit Pozidriv 2
Mounting Position:	Position 1 to 6
Power Loss:	at Rated Operating Conditions per Pole 0.107 ... 1.191 W
Suitable For:	A145 A185 AF145 AF185 AF190 AF205
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

Environmental

Ambient Air Temperature:	Operation -25 ... +70 °C Operation Compensated -25 ... +70 °C Storage -50 ... +85 °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:	210 A
Contact Rating UL/CSA:	(NC:) B600 (NC:) Q600 (NO:) B600 (NO:) Q600
Connecting Capacity Main Circuit UL/CSA:	Flexible 1/2x 6 ... 0000 AWG Stranded 1/2x 6 ... 0000 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 160 in·lb

Certificates and Declarations (Document Number)

ABS Certificate:	1SAA941002-0101
ATEX Certificate:	1SAA941004-3901
BV Certificate:	1SAA941002-0201
CB Certificate:	1SAA942007-2001
CCC Certificate:	1SAA942004-3802
cUL Certificate:	cUL_E48139
Declaration of Conformity - CE:	1SAD938510-0180 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

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

Accessories

1 Products

Filter

Identifier	Type	Description	Qty	Unit Of Measure
1SAX501904R0001	LT200E	LT200E Terminal Shroud	1	piece

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- Purchasing management, order record and tracking of shipments.

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Product	Code	Reference	Product link
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