

PRODUCT-DETAILS

EF205-210

EF205-210 Electronic Overload Relay



C	l Inform	
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Extended Product Type	EF205-210
Product ID	1SAX531001R1101
EAN	4013614442223

Catalog Description

EF205-210 Electronic Overload Relay

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. The EF205 and EF370 have ATEX and IECEx certification 1)

Long Description

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 105 mm

Product Net Height	171 mm
Product Net Depth / Length	122.8 mm
Product Net Weight	1.256 kg

Popular Downloads	
Data Sheet, Technical Information	2CDC107042D0201
Data Sheet, Technical Information (Part 2)	1SAX100509F0001 1SAX100510F0001
Instructions and Manuals	2CDC107036M6802
Instructions and Manuals (Part 2)	2CDC107043M6801
Dimension Diagram	1SAX500401F0001

Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz Auxiliary Circuit 6 kV
210 A 210 A 210 A Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz Auxiliary Circuit 6 kV Main Circuit 8 kV
Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz Auxiliary Circuit 6 kV
Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz Auxiliary Circuit 6 kV
1000 v
1
1
3
Auxiliary Circuit NC 5 A Auxiliary Circuit NO 5 A
(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
(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
Housing IP20 Main Circuit Terminals IP00
3

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	Flexible 1/2x 0.75 2.5 mm² Rigid 1/2x 1 4 mm²
Connecting Capacity	Hole Diameter > 8 mm²
Main Circuit	Rigid or Flexible with Cable Lug 1x 16 185 mm²
	Rigid or Flexible with Cable Lug 2x 16 120 mm ²
Tightening Torque	Auxiliary Circuit 0.8 1.2 N·m
	Main Circuit 18 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm
Recommended Screw	Auxiliary Circuit Pozidriv 2
Driver	
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

Maximum Operating	Main Circuit 600 V AC
Voltage UL/CSA	
Ampere Rating UL/CSA	210 A
Contact Rating UL/CSA	(NC:) B600
	(NC:) Q600
	(NO:) B600
	(NO:) Q600
Connecting Capacity	Stranded 1/2x 6-0000 AWG
Main Circuit UL/CSA	
Connecting Capacity	Flexible 1/2x 18-10 AWG
Auxiliary Circuit UL/CSA	Stranded 1/2x 18-10 AWG
Tightening Torque	Auxiliary Circuit 7 11 in·lb
UL/CSA	Main Circuit 160 in lb

Environmental	
Ambient Air	Operation -25 +70 °C
Temperature	Operation Compensated -25 +70 °C
	Storage -50 +85 °C
Ambient Air	Yes
Temperature	
Compensation	
Maximum Operating	2000 m
Altitude Permissible	
Resistance to Shock acc.	11 ms Pulse 25g
to IEC 60068-2-27	-
Resistance to Vibrations	5q / 3 150 Hz
acc. to IEC 60068-2-6	3 .
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)	
ABS Certificate	1SAA941002-0102
ATEX Certificate	1SAA941004-3901
BV Certificate	1SAA941002-0201
CB Certificate	1SAA942007-2001
CCC Certificate	1SAA942004-3802

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CCS Certificate	1SAA941001-0901
cUL Certificate	cUL_E48139
Declaration of	1SAD938516-0180
Conformity - CE	1SAD938509-0180
DNV Certificate	1SAA941003-0301
DNV GL Certificate	1SAA941003-0302
EAC Certificate	1SAA941003-2701
GOST Certificate	1SAA941001-2701
Instructions and	2CDC107036M6802
Manuals	
Instructions and	2CDC107043M6801
Manuals (Part 2)	
LR Certificate	1SAA941002-0501
RINA Certificate	RINA_ELE376813CS
RMRS Certificate	1SAA941001-0701
RoHS Information	1SAD938513-0180
UL Certificate	UL_E48139

Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	195 mm
Package Level 1 Height	199 mm
Package Level 1 Depth / Length	140 mm
Package Level 1 Gross Weight	1.624 kg
Package Level 1 EAN	4013614442223

Classifications	
Object Classification Code	F
ETIM 4	EC001080 - Electronic overload relay
ETIM 5	EC001080 - Electronic overload relay
ETIM 6	EC001080 - Electronic overload relay
ETIM 7	EC001080 - Electronic overload relay
eClass	7.0 27371502
UNSPSC	39121521
E-Number (Sweden)	3210248

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

Categories

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