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PRODUCT-DETAILS

EF205-210

EF205-210 Electronic Overload Relay 63 ... 210 A



General Information	
Extended Product Type	EF205-210
Product ID	1SAX531001R1101
EAN	4013614442223
Catalog Description	EF205-210 Electronic Overload Relay 63 210 A
	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

Long Description

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. EF205 has 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.

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 Minimum Order Quantity
 1 piece

 Customs Tariff Number
 85364900

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Popular Downloads	
Data Sheet, Technical	2CDC107042D0201
Information Instructions and Manuals	2CDC107036M6803
Instructions and Manuals (Part 2)	1SAC200017M0002
Ex Operating Instructions	2CDC107043M6801
Time-Current Characteristic Curve	1SAX100509F0002 1SAX100510F0001
CAD Dimensional Drawing	2CDC001079B0201
<u>Dimension Diagram</u>	1SAX500401F0001
Dimensions	
Product Net Width	105 mm
Product Net Height Product Net Depth /	171 mm 122.8 mm
Length Product Net Weight	1.256 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 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 5 A Auxiliary Circuit NO 5 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) NC 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

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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	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	1 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	

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Contact Rating UL/CSA	(NC:) B600 (NC:) Q600 (NO:) B600 (NO:) Q600
Connecting Capacity Main Circuit UL/CSA	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 11 in·lb Main Circuit 160 in·lb

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	5g 3 150 Hz
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	1SAD938519-0180
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

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Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
Eco Transparency	
Environmental Product	1SAC200240H0001
Declaration - EPD Environmental Information	1SAC200101H0001
Certificates and Declarations	
ABS Certificate	1SAA941002-0102
ATEX Certificate	1SAA941004-3901
BV Certificate	1SAA941002-020 ⁻
CB Certificate	1SAA964010-200 ⁻
CCS Certificate	1SAA941001-0901
CQC Certificate	CQC2012010309537805
Declaration of Conformity - CCC	2020980309000290
Declaration of Conformity - CE	1SAD101100-3601
Declaration of Conformity - UKCA	1SAD201100-3601
DNV Certificate	1SAA941003-0302
EAC Certificate	1SAA941003-2701
IECEx Certificate	1SAA941000-4001
LR Certificate	1SAA941002-0501
RINA Certificate	RINA_ELE376813CS
RMRS Certificate	1SAA941001-0701
<u>UL Certificate</u>	E48139-19990512
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Container Information	
Package Level 1 Units	carton 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	F EC001080 - Electronic overload relay
ETIM 4 ETIM 5	ECUU 1080 - Electronic overload relay EC001080 - Electronic overload relay
ETIM 6	
ETIM 7	EC001080 - Electronic overload relay EC001080 - Electronic overload relay
ETIM 8	EC001080 - Electronic overload relav
eClass	V11.0 : 27371502
UNSPSC	3912233(
IDEA Granular Category Code (IGCC)	53122330 5365 >> Electronic overload relay
E-Number (Finland)	3705899
E-Number (Sweden)	3210248
	3210240

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Accessories				
Identifier	Description	Туре	Quantity	Unit Of Measure
1SAX501904R0001	LT200E Terminal Shroud	LT200E	1	piece
1SAX101911R1001	DRS-F-01 Remote Reset Coil	DRS-F-01	1	piece
1SAX101911R1002	DRS-F-02 Remote Reset Coil	DRS-F-02	1	piece
1SAX101911R1003	DRS-F-03 Remote Reset Coil	DRS-F-03	1	piece
1SAX101911R1004	DRS-F-04 Remote Reset Coil	DRS-F-04	1	piece
1SAX101911R1011	DRS-F-EF-01 Remote Coil	DRS-F-EF-01	1	piece
1SAX101911R1012	DRS-F-EF-02 Remote Coil	DRS-F-EF-02	1	piece
1SAX101911R1013	DRS-F-EF-03 Remote Coil	DRS-F-EF-03	1	piece
1SAX101911R1014	DRS-F-EF-04 Remote Coil	DRS-F-EF-04	1	piece
1SAZ701903R1001	WRH-F Holder	WRH-F	1	piece
1SAZ701903R1011	WRB-400 Bowden Wire	WRB-400	1	piece
1SAZ701903R1012	WRB-600 Bowden Wire	WRB-600	1	piece
1SAZ701903R1013	WRB-1000 Bowden Wire	WRB-1000	1	piece
1SAZ701903R1030	WRBG Gasket	WRBG	1	piece
1SFA616162R1014	KPR3-101L Reset push button	KPR-101L	1	piece

Categories

 $Low\ Voltage\ Products\ \rightarrow Control\ Products\ \rightarrow Contactors\ \rightarrow Electronic\ Overload\ Relays$

