

PRODUCT-DETAILS

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



General Information	
Extended Product Type	EF205-210
Product ID	1SAX531001R110
EAN	4013614442223
Catalog Description	EF205-210 Electronic Overload Relay 63 210 A
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 al 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- on 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

Minimum Order Quantity

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2024/07/23

1 piece

85364900

Data Sheet, Technical	2CDC107042D020
Information	
Instructions and Manuals	2CDC107036M6803
Instructions and Manuals (Part 2)	1SAC200017M0002
Ex Operating Instructions	2CDC107043M6801
Time-Current	1SAX100509F0002
Characteristic Curve	1SAX100510F0001
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SAX500401F0001
Dimensions	
Product Net Width	105 mm
Product Net Height	171 mm
Product Net Depth / Length	122.8 mm
Product Net Weight	1.256 kg

Technical	
Setting Range	63 210 A
Rated Operational	Auxiliary Circuit 600 V AC/DC
Voltage	Main Circuit 1000 V AC
Rated Operational	210 A
Current (I _e)	
Rated Frequency (f)	Auxiliary Circuit 50 Hz
	Auxiliary Circuit 60 Hz
	Auxiliary Circuit DC
	Main Circuit 50 Hz
	Main Circuit 60 Hz
Rated Impulse	Auxiliary Circuit 6 kV
Withstand Voltage (U _{imp}	Main Circuit 8 kV
Rated Insulation Voltage	1000 V
(U _i)	
Number of Poles	3
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number of Protected Poles	3
Conventional Free-air	Auxiliary Circuit NC 5 A
Thermal Current (I _{th})	Auxiliary Circuit NO 5 A
Rated Operational	(240 V) NC 3 A
Current AC-15 (I _e)	(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	(125 V) NC 0.55 A

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Current DC-13 (I _e)	(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	Flexible with Ferrule 1/2x 0.75 2.5 mm ²
Auxiliary Circuit	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	Hole Diameter > 8 mm²
Main Circuit	Rigid or Flexible with Cable Lug 1x 16 185 mm ² 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 Driver	Auxiliary Circuit Pozidriv 2
Mounting Position	16
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	Auxiliary Circuit 7 11 in lb
UL/CSA	Main Circuit 160 in Ib
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	200011
Desistance to Shack acc	11 mg Duleg 25 g

11 ms Pulse 25g

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Resistance to Shock acc.

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to IEC 60068-2-27	
Resistance to Vibrations	5g 3 150 Hz
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances	2CMT2023-006525
Control Act - TSCA	

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, 201
Toxic Substances Control Act - TSCA	2CMT2023-00652
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm
Eco Transparency	
Environmental Product Declaration - EPD	1SAC200240H000
Environmental Information	1SAC200101H000
Certificates and Declaration	
ABSCertificate	1566941002-0102
ABS Certificate	
	1SAA941004-390
	1SAA941004-390 1SAA941002-020
ATEX Certificate BV Certificate	1SAA941004-390 1SAA941002-020 1SAA964010-200
ATEX Certificate BV Certificate CB Certificate	1SAA941002-0102 1SAA941004-390 1SAA941002-020 1SAA964010-200 1SAA964010-200 CQC201201030953780
ATEX Certificate BV Certificate CB Certificate CCS Certificate	1SAA941004-390 1SAA941002-020 1SAA964010-200 1SAA964010-090
ATEX Certificate BV Certificate CB Certificate CCS Certificate CQC Certificate Declaration of	1SAA941004-390 1SAA941002-020 1SAA964010-200 1SAA941001-090 CQC201201030953780
ATEX Certificate BV Certificate CB Certificate CQC Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of	1SAA941004-390 1SAA941002-020 1SAA964010-200 1SAA941001-090 CQC201201030953780 2020980309000290
ATEX Certificate BV Certificate CB Certificate CQC Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA	15AA941004-390 15AA941002-020 15AA964010-200 15AA941001-090 CQC201201030953780 2020980309000290 15AD101100-360
ATEX Certificate BV Certificate CB Certificate CQC Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA DNV Certificate	15AA941004-390 15AA941002-020 15AA964010-200 15AA964010-200 15AA941001-090 CQC201201030953780 202098030900029 15AD101100-360 15AD201100-360 15AA941003-030
ATEX Certificate BV Certificate CB Certificate CCS Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA DNV Certificate EAC Certificate	1SAA941004-390 1SAA941002-020 1SAA964010-200 1SAA964010-200 2QC201201030953780 202098030900029 1SAD101100-360 1SAD201100-360 1SAA941003-030 1SAA941003-030
ATEX Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA DNV Certificate EAC Certificate IECEx Certificate	1SAA941004-390 1SAA941002-020 1SAA964010-200 1SAA964010-200 1SAA941001-090 CQC201201030953780 202098030900029 1SAD101100-360 1SAD201100-360 1SAA941003-030 1SAA941003-270 1SAA941000-400
ATEX Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA DNV Certificate EAC Certificate IECEx Certificate LR Certificate	15AA941004-390 15AA941002-020 15AA964010-200 15AA941001-090 CQC201201030953780 2020980309000290 15AD101100-360 15AD201100-360
ATEX Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of	1SAA941004-390 1SAA941002-020 1SAA964010-200 1SAA964010-200 1SAA941001-090 CQC201201030953780 202098030900029 1SAD101100-360 1SAD201100-360 1SAA941003-030 1SAA941003-270 1SAA941003-270 1SAA941003-270 1SAA941003-270 1SAA941003-270 1SAA941003-270 1SAA941002-050

Container Information		
Package Level 1 Units	box 1 piece	
Package Level 1 Width	195 mm	
Package Level 1 Height	199 mm	
Package Level 1 Depth /	140 mm	

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Length	
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
ETIM 8	EC001080 - Electronic overload relay
eClass	V11.0 : 27371502
UNSPSC	39122330
IDEA Granular Category Code (IGCC)	5365 >> Electronic overload relay
E-Number (Finland)	3705899
E-Number (Sweden)	3210248

Accessories

Identifier 1SAX501904R0001	Description	Type Quantity		Unit Of Measure
	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 and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Electronic Overload Relays

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