



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
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. 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.
Display Name:	EF205-210

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Popular Downloads

Data Sheet, Technical Information:	2CDC107042D0201
Instructions and Manuals:	2CDC107036M6803
Instructions and Manuals (Part 2):	1SAC200017M0002
Ex Operating Instructions:	2CDC107043M6801
Time-Current Characteristic Curve:	1SAX100509F0002 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:	1.21 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:	3P
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) 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 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 mm ² 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:	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 Information:	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 Declaration:	1SVD981001-4401
WEEE B2C / B2B:	Business To Business
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

ABB EcoSolutions:	Yes
ABB Site Meeting Group Waste To Landfill Target:	UL 2799 Zero Waste To Landfill Validation available
EcoSolutions Profile:	1SFC100125C0415
End Of Life Disassembling Instructions:	1SAC200336H0001
Environmental Information:	1SAC200101H0001
Environmental Product Declaration - EPD:	1SAC200240H0001
Improved Energy Efficiency for Customers:	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 92.7 %

Certificates and Declarations

ABS Certificate:	1SAA941002-0102
ATEX Certificate:	1SAA941004-3901
BV Certificate:	1SAA941002-0201
CB Certificate:	1SAA964010-2001
CCC Certificate:	2024010304654682

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
UL Certificate:	E48139-19990512

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 / Length:	140 mm
Package Level 1 Gross Weight:	1.624 kg
Package Level 1 EAN:	4013614442223

External Classifications and Standards

Object Classification Code:	F
ETIM 9:	EC001080 - Electronic overload relay
ETIM 10:	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 (Norway):	4116703
E-Number (Sweden):	3210248

Accessories

Identifier	Description	Type	Qty	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

Identifier	Description	Type	Qty	Unit Of Measure
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

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

