

PRODUCT-DETAILS

EF65-56 EF65-56 Electronic Overload Relay 20 ... 56 A



Extended Product Type	EF65-50
Product ID	1SAX331001R110
EAN	4013614493010
Catalog Description	EF65-56 Electronic Overload Relay 20 56 /
Long Description	The EF65 is an self-supplied electronic overload relay, which means no extra externa supply is needed. It offers reliable and fast protection for motors in the event or overload or phase failure. Easy to use like a thermal overload relay and compatible wit 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 reser selectable, trip-free mechanism, STOP- and Test function and a trip indication. The overload relays are connected directly to the contactors. Single mounting kits are available as accessory. The EF65, EF96 and EF146have ATEX and IECEx certification 1
	 ATEX is valid for products produced from week 42, 2014 IECEx is valid for products produced from week 15, 2017

1 piece
85364900

Popular Downloads

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Data Sheet, Technical Information	2CDC107041D0201
Instructions and Manuals	2CDC107026M6803
Instructions and Manuals (Part 2)	1SAC200017M0002
Ex Operating Instructions	2CDC107043M6801
Time-Current Characteristic Curve	1SAX100509F0002 1SAX100510F0001
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SAX300405F0001

Dimensions	
Product Net Width	70 mm
Product Net Height	131.2 mm
Product Net Depth / Length	105.2 mm
Product Net Weight	0.821 kg

Technical	
Setting Range	20 56 <i>A</i>
Rated Operational	Auxiliary Circuit 600 V AC/DC
Voltage	Main Circuit 1000 V AC
Rated Operational	56 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	1
Contacts NC	
Number of Auxiliary	1
Contacts NO	
Number of Protected	3
Poles	
Conventional Free-air	Auxiliary Circuit NC 6 A
Thermal Current (I _{th})	Auxiliary Circuit NO 6 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
Current DC-13 (Ie)	(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

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Pollution Degree	
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm Flexible with Insulated Ferrule 1/2x 0.75 2.5 mm Flexible 1/2x 0.75 2.5 mm Rigid 1/2x 1 4 mm
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 4 35 mm ² Flexible with Ferrule 2x 2.5 35 mm ² Flexible with Insulated Ferrule 1/2x 4 35 mm ² Flexible 1/2x 4 35 mm ² Rigid 1/2x 4 35 mm ²
Tightening Torque	Auxiliary Circuit 0.8 1.2 N·m Main Circuit 4 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 20 mm
Recommended Screw Driver	Auxiliary Circuit Pozidriv 2 Main Circuit Pozidriv 2
Mounting Position	16
Power Loss	at Rated Operating Conditions per Pole 0.036 0.282 W
Suitable For	AF40 AF52 AF65
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	Flexible 1/2x 10-2 AWG
Main Circuit UL/CSA	Stranded 1/2x 10-2 AWG
Connecting Capacity	Flexible 1/2x 18-10 AWG
Auxiliary Circuit UL/CSA	Stranded 1/2x 18-10 AWG
Tightening Torque	Auxiliary Circuit 7 1 in·lb
UL/CSA	Main Circuit 55 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	
Resistance to Shock acc.	11 ms Pulse 25g
to IEC 60068-2-27	-
Resistance to Vibrations	5g / 3 150 Hz
acc. to IEC 60068-2-6	5.
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Certificates and Declarations		
ABS Certificate		1SAA941002-0102
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ATEX Certificate	1SAA941004-3901
BV Certificate	1SAA941002-0201
CB Certificate	1SAA964013-2001
CCS Certificate	1SAA941001-0901
CQC Certificate	CQC2013010309592132
Declaration of Conformity - CCC	2020980309000286
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
RMRS Certificate	1SAA941001-0701
UL Certificate	E48139-19990512

Container Information	

Package Level 1 Units	1 piece
Package Level 1 Width	139 mm
Package Level 1 Height	107 mm
Package Level 1 Depth / Length	75.5 mm
Package Level 1 Gross Weight	0.876 kg
Package Level 1 EAN	4013614493010
Package Level 2 Units	20 piece
Package Level 2 Width	393 mm
Package Level 2 Height	227 mm
Package Level 2 Depth / Length	290 mm
Package Level 2 Gross Weight	18.803 kg
Package Level 2 EAN	4013614511417

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)	3707478

Accessories

Identifier 1SAZ901901R1001	Description	Type Quantity		Unit Of Measure
	DB96 Single Mounting Kit	DB96	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

