

PRODUCT-DETAILS

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



Extended Product Type	EF65-5
Product ID	1SAX331001R110
EAN	401361449301
Catalog Description	EF65-56 Electronic Overload Relay 20 56
Long Description	The EF65 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, du to its wide setting range, high accuracy, high operational temperature range and th possibility to select a trip class (10E, 20E, 30E). Further features are the temperature compensation, trip contact (NC), signal contact (NO), automatic- or manual rese selectable, trip-free mechanism, STOP- and Test function and a trip indication. Th overload relays are connected directly to the contactors. Single mounting kits ar available as accessory. The EF65, EF96 and EF146have 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, 201

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Minimum Order Quantity

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1 piece

85364900

Popular Downloads	
Data Sheet, Technical Information	2CDC107041D020
Instructions and Manuals	2CDC107026M6803
Instructions and Manuals (Part 2)	15AC200017M000
Ex Operating Instructions	2CDC107043M680
Time-Current Characteristic Curve	1SAX100509F000 1SAX100510F000
CAD Dimensional Drawing	2CDC001079B020
Dimension Diagram	1SAX300405F000
Dimensions	
Product Net Width	70 mn
Product Net Height	131.2 mm
Product Net Depth / Length	105.2 mn
Product Net Weight	0.821 k

Technical	
Setting Range	20 56 A
Rated Operational	Auxiliary Circuit 600 V AC/DC
Voltage	Main Circuit 1000 V AC
Rated Operational	56 A
Current (Ie)	
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 (Ui)	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	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

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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 IP10
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 mm ² Flexible 1/2x 0.75 2.5 mm ²
	Rigid 1/2x 1 4 mm²
Connecting Capacity	Flexible with Ferrule 1x 4 35 mm ²
Main Circuit	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	Auxiliary Circuit Pozidriv 2
Driver	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
contact nating of y con	(NC:) Q600
	(NO:) B600
	(NO:) Q600
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 10-2 AWG 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 UL/CSA	Auxiliary Circuit 7 1 in·lb Main Circuit 55 in·lb
Environmental	
Ambient Air	Operation -25 +70 °C
Temperature	Operation Compensated -25 +70 °C
	Storage -50 +85 °C
Ambient Air Temperature	Yes
Compensation	
Maximum Operating	2000 m
Altitude Permissible	
Resistance to Shock acc.	11 ms Pulse 25g
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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	2CMT2021-006277
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions	
ABB EcoSolutions	Yes
Environmental Product Declaration - EPD	1SAC200236H0001
End of Life Instructions	1SAC200283H0001
Environmental Information	1SAC200098H0001

Certificates and Declarations		
ABS Certificate	1SAA941002-0102	
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	box 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	0.876 kg

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Weight		
Package Level 1 EAN		

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Classifications	
Object Classification	F
Code	
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	5365 >> Electronic overload relay
Code (IGCC)	
E-Number (Finland)	3707478

Accessories

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

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