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PRODUCT-DETAILS

EF65-56

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



C	Informatio	
General	Intormatio	n

Extended Product Type	EF65-56
Product ID	1SAX331001R1102
EAN	4013614493010
Catalog Description	EF65-56 Electronic Overload Relay 20 56 A

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, 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. Single mounting kits are 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, 2017.

Ordering

Minimum Order Quantity 1 piece EF65-56 2/6

Customs Tariff Number 85364900

2CDC107041D0201
2CDC107026M6803
1SAC200017M0002
2CDC107043M6803
1SAX100509F0002 1SAX100510F0001
2CDC001079B0203
1SAX300405F0001
70 mm
131.2 mm
105.2 mm
0.821 kg
20 56 <i>A</i> Auxiliary Circuit 600 V AC/DC
Main Circuit 1000 V AC/DC
56 A
Auxiliary Circuit 50 H: Auxiliary Circuit 60 H: Auxiliary Circuit DC Main Circuit 50 H: Main Circuit 60 H:
Auxiliary Circuit 6 k Main Circuit 8 k
1000 \
:
:
Auxiliary Circuit NC 6 A Auxiliary Circuit NO 6 A
(240 V) NC 3 / (240 V) NO 3 /
(400 V) NC 1.1 (400 V) NO 1.1 (500 V) NC 0.75 (500 V) NO 0.75

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 Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm² 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 Main Circuit	Flexible with Ferrule 1x 4 35 mm² Flexible with Ferrule 2x 2.5 35 mm² Flexible with Insulated Ferrule 1/2x 4 35 mm² Flexible 1/2x 4 35 mm² Rigid 1/2x 4 35 mm²
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 Main Circuit UL/CSA	Flexible 1/2x 10-2 AWG Stranded 1/2x 10-2 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 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	Yes
Temperature	
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
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
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)

Circular Value

ABB EcoSolutions	Yes
End of Life Instructions	1SAC200283H0001

Eco Transparency

Environmental Product Declaration - EPD	1SAC200236H0001
Environmental	1SAC200098H0001
Information	

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

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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 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

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	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		

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Categories

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

