

PRODUCT-DETAILS

EF45-45

EF45-45 Electronic Overload Relay 15 ... 45 A



Información General

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| Tipo de producto extendido | EF45-45 |
| Código de producto | 1SAX221001R1102 |
| EAN | 4013614403972 |
| Descripción corta | EF45-45 Electronic Overload Relay 15 ... 45 A |

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| Descripción larga | <p>The EF45-45 is a 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 EF19 and EF45 have ATEX and IECEx certification 1)</p> |
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1) ATEX is valid for products produced from week 42, 2014.
IECEx is valid for products produced from week 15, 2017.

Clasificación

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| Cantidad mínima de pedido | 1 piece |
| Código arancelario | 85364900 |

Descargas Populares

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|---------------------------------------|------------------------------------|
| Ficha técnica, información técnica | 2CDC107025D0201 |
| Instrucciones y manuales | 2CDC107024M6803 |
| Instrucciones y manuales (parte 2) | 1SAC200017M0002 |
| Instrucciones de uso Ex | 2CDC107043M6801 |
| Curva característica tiempo-corriente | 1SAX100509F0002 1SAX100510F0001 |
| Dibujo dimensional CAD | 2CDC001079B0201 |
| Diagrama de dimensiones | 1SAX200403F0001 |

Dimensiones

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| Ancho del product | 45 mm |
| Alto del producto | 104.7 mm |
| Largo del product | 86 mm |
| Peso del product | 0.362 kg |

Technical

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| Rango de ajuste | 15 ... 45 A |
| Tensión nominal de operación | Auxiliary Circuit 600 V AC/DC Main Circuit 690 V AC |
| Corriente nominal de funcionamiento (I_e) | 45 A |
| Frecuencia nominal (f) | Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz |
| Tensión nominal soportada por impulsos (U_{imp}) | Auxiliary Circuit 6 kV Main Circuit 6 kV |
| Tensión nominal de aislamiento (U_i) | 690 V |
| Número de polos | 3 |
| Número de contactos auxiliares NC | 1 |
| Número de contactos auxiliares NO | 1 |
| Número de postes protegidos | 3 |
| Corriente térmica convencional de aire libre (I_{th}) | Auxiliary Circuit NC 6 A Auxiliary Circuit NO 6 A |
| Corriente nominal de funcionamiento 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 |
| Corriente nominal de funcionamiento 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 |

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| Grado de protección | IP20 |
| Grado de contaminación | 3 |
| Capacidad de conexión del circuito auxiliar | 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 |
| Capacidad de conexión del circuito principal | Flexible with Ferrule 1/2x 2.5 ... 10 mm ² Flexible with Insulated Ferrule 1/2x 2.5 ... 10 mm ² Flexible 1/2x 2.5 ... 10 mm ² Rigid 1/2x 2.5 ... 16 mm ² |
| Par de apriete | Auxiliary Circuit 0.8 ... 1.2 N·m Main Circuit 2.3 ... 2.6 N·m |
| Longitud de pelado del cable | Auxiliary Circuit 9 mm Main Circuit 13 mm |
| Destornillador recomendado | Auxiliary Circuit Pozidriv 2 Main Circuit Pozidriv 2 |
| Posición de montaje | 1 ... 6 |
| Pérdida de potencia | at Rated Operating Conditions per Pole 0.059 ... 0.527 W |
| Adecuado para | AF26 AF30 AF38 |
| Normas | IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 |

Technical UL/CSA

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| Tensión máxima de funcionamiento UL/CSA | Main Circuit 600 V AC |
| Clasificación de los contactos UL/CSA | (NC:) B600 (NC:) Q600 (NO:) B600 (NO:) Q600 |
| Capacidad de conexión del circuito principal UL/CSA | Flexible 1/2x 14-6 AWG Stranded 1/2x 14-6 AWG |
| Capacidad de conexión Circuito auxiliar UL/CSA | Flexible 1/2x 18-10 AWG Stranded 1/2x 18-10 AWG |
| Par de apriete UL/CSA | Auxiliary Circuit 7 ... 1 in·lb Main Circuit 35 in·lb |

Ambiente

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| Temperatura ambiente | Funcionamiento -25 ... +70 °C Operation Compensated -25 ... +70 °C Almacenamiento -50 ... +80 °C |
| Compensación de la temperatura del aire ambiente | Yes |
| Altitud máxima de funcionamiento permisible | 2000 m |
| Resistencia a los golpes según IEC 60068-2-27 | 11 ms Pulse 25g |
| Resistencia a las vibraciones según IEC 60068-2-6 | 5g / 3 ... 150 Hz |
| Estado de RoHS | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

Certificados y Declaraciones (Número de Documento)

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|-----------------------------------|---------------------|
| Certificado ABS | 1SAA941002-0102 |
| Certificado ATEX | 1SAA941004-3901 |
| Certificado BV | 1SAA941002-0201 |
| Certificado CB | 1SAA964003-2002 |
| Certificado CCS | 1SAA941001-0901 |
| Certificado CQC | CQC2006010309192161 |
| Declaración de conformidad - CCC | 2020980309000293 |
| Declaración de conformidad - CE | 1SAD101100-3601 |
| Declaración de conformidad - UKCA | 1SAD201100-3601 |
| Certificado DNV | 1SAA941003-0302 |
| Certificado EAC | 1SAA941003-2701 |
| Certificado IECEx | 1SAA941000-4001 |
| Certificado LR | 1SAA941002-0501 |
| Certificado RINA | RINA_ELE376813CS |
| Certificado RMRS | 1SAA964000-0703 |
| Certificado UL | E48139-19990512 |

Información de Embalaje

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|---------------------------|---------------|
| Embalaje Nivel 1 Unidades | 1 pieza |
| Embalaje Nivel 1 Ancho | 111 mm |
| Embalaje Nivel 1 Alto | 51.5 mm |
| Embalaje Nivel 1 Largo | 93 mm |
| Embalaje Nivel 1 Peso | 0.398 kg |
| Embalaje Nivel 1 EAN | 4013614403972 |
| Embalaje Nivel 2 Unidades | 50 pieza |
| Embalaje Nivel 2 Ancho | 558 mm |
| Embalaje Nivel 2 Alto | 189 mm |
| Embalaje Nivel 2 Largo | 263 mm |
| Embalaje Nivel 2 Peso | 20.463 kg |
| Nivel de paquete 2 EAN | 4013614483349 |

Clasificaciones

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|---|--------------------------------------|
| Código de clasificación de objetos | 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 |
| Clase electrónica | V11.0 : 27371502 |
| UNSPSC | 39122330 |
| Código de categoría granular de IDEA (IGCC) | 5365 >> Electronic overload relay |
| Número E (Finlandia) | 3706157 |
| Número E (Suecia) | 3224186 |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|-----------------------------|-------------|----------|-----------------|
| 1SAX201910R0001 | DB45EF Single Mounting Kit | DB45EF | 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 |

Categorías

Productos y sistemas de baja tensión → Aparatos de control → Contactores → Relés térmicos electrónicos

