

2909846

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Pre-assembled relay module consisting of: relay base, function plug-in module, power contact relay, and retaining bracket, approval in accordance with ATEX/IECEx (Zone 2) and Ex Zone Class I, Div. 2, Screw connection, 4 changeover contacts, Varistor, Input voltage: 120 V AC

Product description

The pluggable electromechanical and solid-state relays in the RIFLINE complete product range and the base are recognized and approved in accordance with UL 508. The relevant approvals can be called up at the individual components in question.

Commercial data

Item number	2909846
Packing unit	10 pc
Minimum order quantity	10 рс
Note	Made to order (non-returnable)
Sales key	C465
Product key	CK651A
Catalog page	Page 344 (C-5-2019)
GTIN	4055626395494
Weight per piece (including packing)	117 g
Weight per piece (excluding packing)	117 g
Customs tariff number	85364900
Country of origin	CN

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Set consists of

RIF-2-BSC/4X21/EX - Relay base

1047031 https://www.phoenixcontact.com/us/products/1047031



RIF-2.../EX relay base for assembling with RTIII-sealed industrial relays with 4 changeover contacts for use in zone 2, screw connection, plug-in option for input / interference suppression modules, for mounting on NS 35/7,5

REL-IR4/120AC/4X21/EX - Single relay

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Pluggable industrial relay, RT III sealed with power contacts, 4x changeover contacts, mechanical switch position indicator, polarity: non-polarized, input voltage: 120 V AC, in connection with RIF-2.../EX bases approved in accordance with ATEX/IECEx (zone 2) and Ex zone class I, div. 2.



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RIF-LV-120-230 AC/110 DC - Plug-in module

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Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor and yellow LED, input voltage: 120 V AC... 230 V AC / 110 V DC $\pm 20~\%$

RIF-RH-2 - Retaining bracket

2900954 https://www.phoenixcontact.com/us/products/2900954



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-2 relay base, for industrial relay

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Technical data

Notes

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
roduct properties	
Product type	Relay Module
Product family	RIFLINE complete
Application	Class I, Division 2
	potentially explosive areas
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10 ⁷ cycles
Insulation characteristics	
Insulation	Basic insulation
Insulation characteristics	
Insulation	Basic insulation
Overvoltage category	III
	II (Zone 2)
Pollution degree	2
lectrical properties	
Maximum power dissipation for nominal condition	1.7 W
Test voltage (Winding/contact)	2.5 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	2 kV _{rms} (50 Hz, 1 min., contact/contact)

Input data

Rated insulation voltage

Rated surge voltage

Coil side	
Nominal input voltage U _N	120 V AC
Input voltage range	96 V AC 144 V AC (20 °C)
Input voltage range in reference to ${\rm U}_{\rm N}$	see diagram
Mains frequency	50/60 Hz
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	13 mA
Typical response time	5 ms 15 ms
Typical release time range	5 ms 20 ms
Coil voltage	120 V AC
Protective circuit	Varistor

250 V AC

2.5 kV



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Operating voltage display	Yellow LED

Output data

Contact switching type	4 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (24 mA)
Limiting continuous current	5 A (see diagram)
Maximum inrush current	16 A (20 ms, N/O contacts)
Min. switching current	5 mA (24 V)
Interrupting rating (ohmic load) max.	120 W (24 V DC)
	124 W (48 V DC)
	108 W (60 V DC)
	52 W (110 V DC)
	48 W (220 V DC)
	1250 VA (250 V AC)
Utilization category CB Scheme (IEC 60947-5-1)	AC15, 1 A/240 V (N/O contact)
	DC13, 2 A/24 V (N/O contact)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section rigid	0.5 mm ² 4 mm ²
Conductor cross-section rigid (2 conductors with same cross section)	0.5 mm ² 2.5 mm ²
Conductor cross section flexible	0.5 mm² 4 mm²
	0.5 mm ² 4 mm ² (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross section)	0.5 mm ² 2.5 mm ²
	0.5 mm ² 1.5 mm ² (TWIN ferrule with plastic sleeve)
Conductor cross section AWG	20 10 (solid)
	20 12 (flexible)
Tightening torque	0.5 Nm 0.6 Nm

Dimensions

Width	27 mm
Height	89 mm
Depth	75 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V2 (Housing)



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Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Relay)	RT III (Relay)
Ambient temperature (operation)	-40 °C 50 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

Approvals

ATEX	
Identification	ll 3G Ex ec nC IIC T4 Gc
Certificate	IBExU17ATEXB014X
UKCA Ex (UKEX)	
Identification	🐵 II 3G Ex ec nC IIC T4 Gc
Certificate	PxcIF21UKEX2909741X
IECEx	
Identification	Ex ec nC IIC T4 Gc
Certificate	IECEX IBE 17.0032X
UL, USA/Canada	
Identification	Class I, Div. 2, Groups A, B, C, D T4
	Class I, Zone 2, Group IIC
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60
Standards and regulations	
Standards/regulations	IEC 60947-5-1
Ex zone	
Standards/regulations	EN/IEC 60079-0
	EN/IEC 60079-7
	EN/IEC 60079-15
Mounting	
Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any



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Classifications

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

ETIM

	ETIM 9.0	EC001437	
UNSPSC			
	UNSPSC 21.0	39122300	

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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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