

2909739

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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, Push-in connection, 4 changeover contacts, Varistor, Input voltage: 230 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	2909739
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C465
Product key	CK652A
Catalog page	Page 344 (C-5-2019)
GTIN	4055626379692
Weight per piece (including packing)	108.3 g
Weight per piece (excluding packing)	108.3 g
Customs tariff number	85364900
Country of origin	CN



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Technical data

Notes

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EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

Product 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

	IIISUIdiiOII	Dasic insulation
Overvoltage category	Overvoltage category	III
		II (Zone 2)
	Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	1.5 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)
Rated insulation voltage	250 V AC
Rated surge voltage	2.5 kV

Input data

Coil side

230 V AC
184 V AC 276 V AC (20 °C)
see diagram
50/60 Hz
monostable
polarized
6.5 mA
5 ms 15 ms
5 ms 20 ms
230 V AC
Varistor



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Operating voltage display	Yellow LED

Output data

Switching

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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 (at 24 V DC)
	124 W (at 48 V DC)
	108 W (at 60 V DC)
	52 W (at 110 V DC)
	48 W (at 220 V DC)
	1250 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.22 A (at 120 V, DC13)
	0.11 A (at 250 V, DC13)
	1.5 A (at 24 V, AC15)
	1.5 A (at 120 V, AC15)
	1 A (at 240 V, AC15)

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section flexible	0.14 mm² 1.5 mm²
	0.14 mm ² 1.5 mm ² (Ferrule with plastic sleeve)
	0.14 mm² 1 mm² (Ferrule with plastic sleeve, two conductors on double terminal block)
Conductor cross section AWG	26 16 (solid)
	26 16 (flexible)

Dimensions

Drill hole

Diameter	3.2 mm
Width	31 mm
Height	96 mm
Depth	75 mm

Material specifications



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Flammability rating according to UL 94	V2 (Housing)
nvironmental 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
pprovals	
ATEX	
Identification	
Certificate	IBExU17ATEXB014X
UKCA Ex (UKEX)	
Identification	
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
andards and regulations	
Standards/regulations	IEC 60947-5-1
	IEC 61508-1
Ex zone	
Standards/regulations	EN/IEC 60079-0
	EN/IEC 60079-7
	EN/IEC 60079-15
ounting	
Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2909739



EAC

Approval ID: TR_TS_D_00573_c



EAC

Approval ID: RU*C-DE.*08.B.00010



UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705



ECEx

Approval ID: IECEx IBE 17.0032X



cUL Listed

Approval ID: File E 196811



UL Listed

Approval ID: File E 196811



ATEX

Approval ID: IBExU 17 ATEX B014 X

cULus Listed

cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27371601	
	ECLASS-12.0	27371601	
	ECLASS-13.0	27371601	
ETIM			
	ETIM 8.0	EC001437	
UNSPSC			

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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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