

Single relay - REL-IR2/L-120AC/2X21 - 2903667

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Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, mechanical switching position indicator, input voltage: 120 V AC



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	 4 046356 758208
GTIN	4046356758208
Weight per Piece (excluding packing)	36.000 g
Custom tariff number	85364900
Country of origin	Poland

Technical data

Dimensions

Width	21.2 mm
Height	27.5 mm
Depth	35.6 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	RT I

Coil side

Nominal input voltage U_N	120 V AC
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Technical data

Coil side

Input voltage range in reference to U_N	see diagram
Mains frequency	50/60 Hz
Typical input current at U_N	13 mA
Typical response time	5 ms ... 15 ms (depending on phase relation)
Typical release time range	5 ms ... 20 ms (depending on phase relation)
Status display	Yellow LED
Power dissipation for nominal condition	1.56 W

Contact side

Contact type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (At 24 mA)
Min. switching current	5 mA (at 24 V)
Maximum inrush current	30 A (20 ms, N/O contacts)
Limiting continuous current	12 A
Interrupting rating (ohmic load) max.	288 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)
	3000 VA (for 250 V AC)
Switching capacity min.	0.12 W
Motor load according to UL 508	1/2 HP, 240 V AC

General

Test voltage	2.5 kV _{rms} (50 Hz, 1 min., winding/contact)
	2.5 kV _{rms} (50 Hz, 1 min., contact/contact)
	2.5 kV _{rms} (50 Hz, 1 min., changeover contact/changeover contact)
Operating mode	100% operating factor
Mechanical service life	approx. 2×10^7 cycles
Service life, electrical	see diagram
Mounting position	any

Connection data

Connection method	Plug connection
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Standards and Regulations

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Technical data

Standards and Regulations

Connection in acc. with standard	CSA
Standards/regulations	IEC 60664
	IEC 61810
Rated insulation voltage	250 V AC
Rated surge voltage	4 kV
Insulation	Basic insulation
Pollution degree	3 (Rated voltage of 230 V)
	2 (Rated voltage of 400 V)
Overvoltage category	III

Conformance/approvals

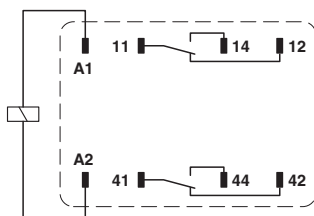
Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

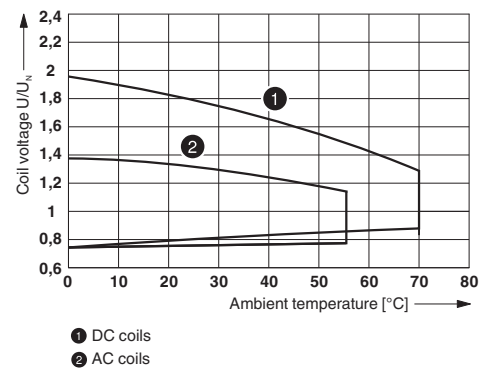
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Circuit diagram



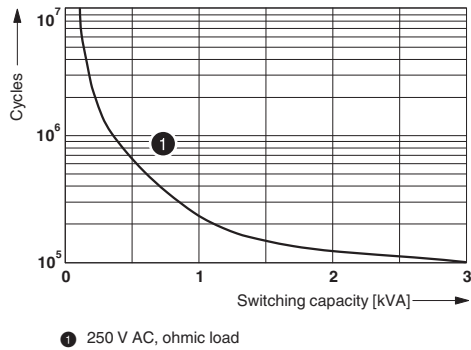
Diagram



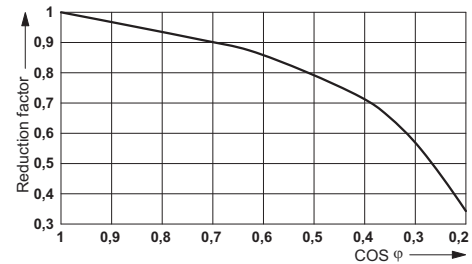
Operating voltage range

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Diagram



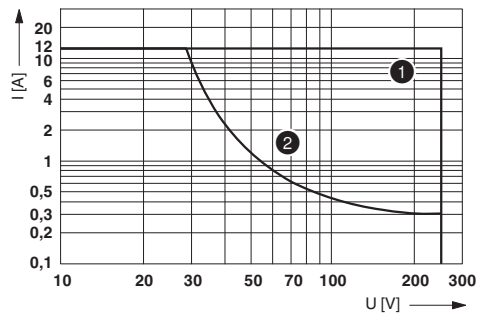
Diagram



Electrical service life

Service life reduction factor

Diagram



Interrupting rating

Curve 1: AC, ohmic load

Curve 2: DC, ohmic load

Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371600
eCl@ss 5.1	27371600
eCl@ss 6.0	27371600
eCl@ss 7.0	27371601
eCl@ss 9.0	27371601

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Classifications

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 6.0	EC001437
ETIM 7.0	EC001437

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39122334
UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / EAC / VDE Zeichengenehmigung / cULus Recognized

Ex Approvals

Approval details

CSA		http://www.csagroup.org/services-industries/product-listing/	2554095
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UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
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Approvals

cUL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 172140

EAC



TR_TS_D_00573_c

EAC



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VDE Zeichengenehmigung



[http://www2.vde.com/de/Institut/Online-Service/
VDE-gepruefteProdukte/Seiten/Online-Suche.aspx](http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx)

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cULus Recognized



Accessories

Additional products

Relay base - RIF-2-BPT/4X21 - 2900934



Relay base RIF-2..., for industrial relay with 2 or 4 changeover contacts, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

Relay base - RIF-2-BSC/4X21 - 2900932



RIF-2... relay base, for industrial relay with 2 or 4 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

