REL-OR/L-120AC/1/MB - Single relay

2901906

https://www.phoenixcontact.com/us/products/2901906

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Plug-in octal relay with power contacts, specially designed for switching high DC loads, 1 N/O contact, detectable manual operation, status LED, blowout magnet, coil voltage: 120 V AC

Commercial data

Item number	2901906
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	CK6193
Catalog page	Page 386 (C-7-2013)
GTIN	4046356667265
Weight per piece (including packing)	92.57 g
Weight per piece (excluding packing)	92.57 g
Customs tariff number	85364900
Country of origin	IN

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Technical data

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	approx. 10^7 cycles

Insulation characteristics

Overvoltage category	III
Pollution degree	3

Electrical properties

Test voltage (Winding/contact)	2.5 kV_{rms} (50 Hz, 1 min., winding/contact)

Input data

Coil side

Nominal input voltage U_N	120 V AC
Input voltage range	78 V AC ... 180 V AC
Input voltage range in reference to U_N	see diagram
Typical input current at U_N	22 mA
Typical response time	5 ms ... 20 ms (depending on phase relation)
Typical release time range	5 ms ... 20 ms (depending on phase relation)
Operating voltage display	Yellow LED
Coil resistance	1.7 kΩ ±10 %

Output data

Switching

Contact switching type	1 N/O contact
Type of switch contact	Single contact
Note regarding the switch contact	Series connection, 2 N/O contacts with blowout magnet
Contact material	AgNi
Maximum switching voltage	250 V AC
	220 V DC
Minimum switching voltage	10 V (at 10 mA)
Limiting continuous current	10 A
Maximum inrush current	30 A (20 ms)
Min. switching current	10 mA (at 10 V)
Interrupting rating (ohmic load) max.	2500 VA (for 250 V AC)

Dimensions

Width	35 mm
Height	35 mm
Depth	58.5 mm

Environmental and real-life conditions

Ambient conditions

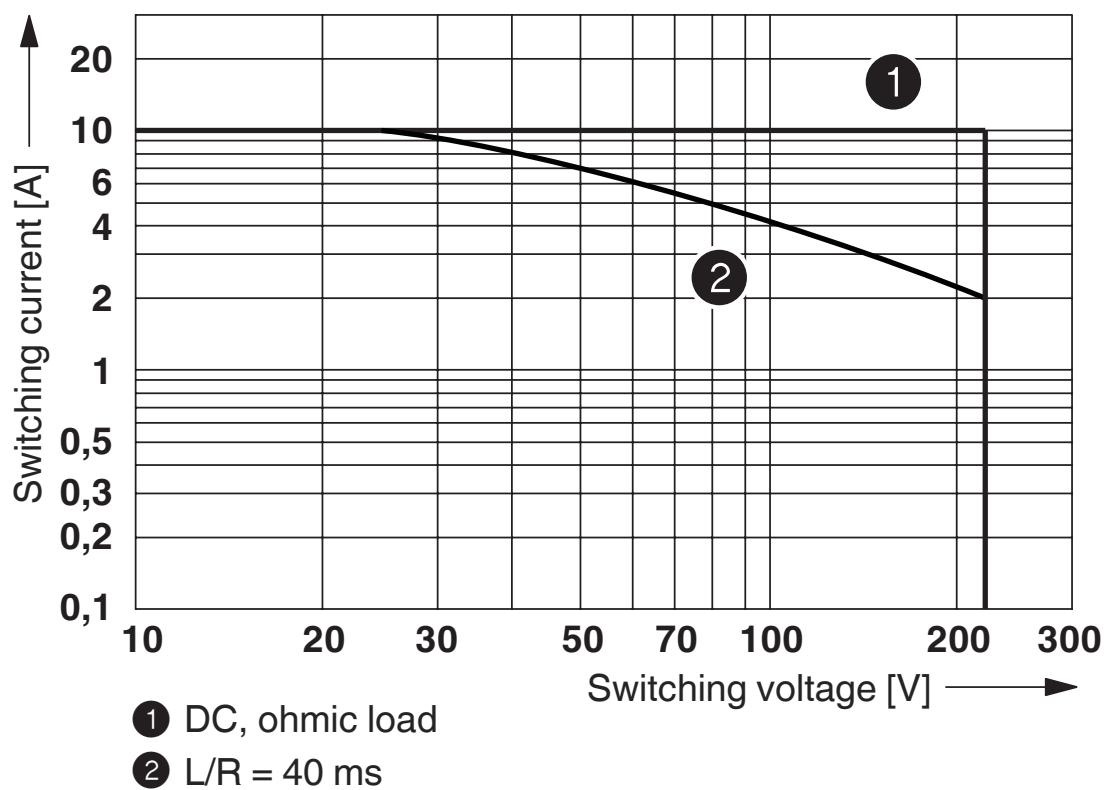|	
Degree of protection	RT I
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

Standards and regulations

Standards/regulations	IEC 61810
	EN 60947

Mounting

Assembly instructions	On relay base PR3
Mounting position	any

Drawings

Diagram

1 DC, ohmic load

2 L/R = 40 ms

DC interrupting rating

Circuit diagram

Diagram

① Maximum operating voltage without load current (0 A)
② Maximum operating voltage at limiting continuous current (10 A)
③ Minimum pick-up voltage without pre-excitation
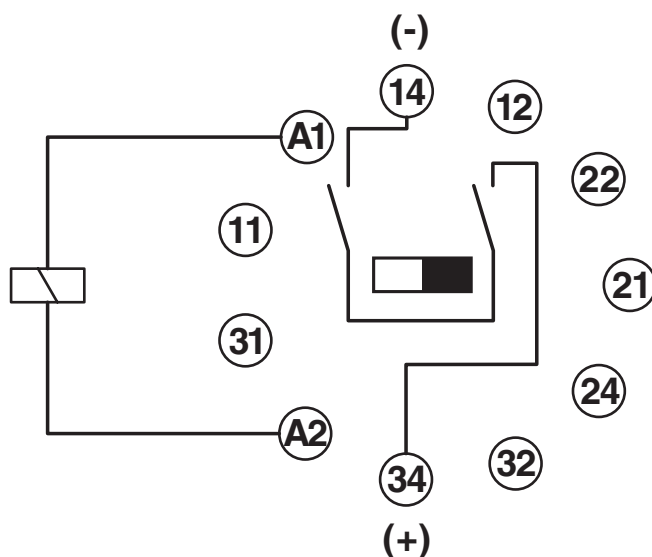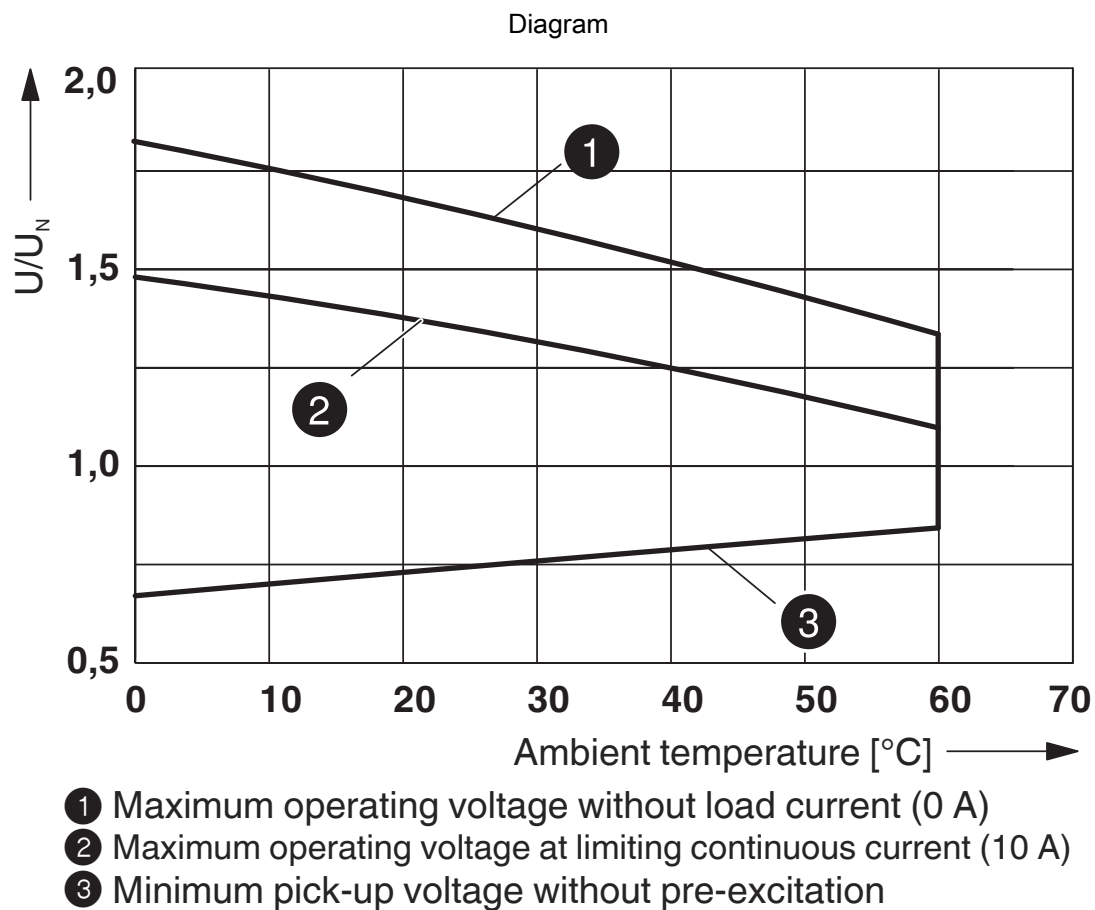
Operating voltage range of the relay

Classifications

ECLASS

ECLASS-11.0	27371601

Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-5
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

UC-EM (21X8) - Snap-in markers

0825507

https://www.phoenixcontact.com/us/products/0825507

Snap-in markers, Sheet, white, unlabeled, can be labeled with:
BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK,
CMS-P1-PLOTTER, mounting type: snapped, lettering field size: 21 x 8 mm,
Number of individual labels: 20

UCT-EM (21X8) - Snap-in markers

0801489

https://www.phoenixcontact.com/us/products/0801489

Snap-in markers, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO,
TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK
CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK
CARD, mounting type: snapped, lettering field size: 21 x 8 mm, Number of
individual labels: 18