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Extract from the online
catalog

REL-MR-120AC/21-21

Order No.: 2961448



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2961448>

Pluggable miniature relay, with power contact, 2 PDT, coil voltage 120 V AC

Commercial data

GTIN (EAN)	 4 017918 937850
sales group	G084
Pack	10 pcs.
Customs tariff	85364900
Catalog page information	Page 54 (IF-2009)

Product notes

WEEE/RoHS-compliant since:
08/31/2007



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Coil side

Nominal input voltage U_N	120 V AC
Nominal input current at U_{IN}	7 mA (at 50 Hz) 5 mA (At 60 Hz)
Typical response time	3 ms ... 12 ms (depending on phase relation)

REL-MR-120AC/21-21 Order No.: 2961448

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2961448>

Typical release time range	2 ms ... 9 ms (depending on phase relation)
Coil resistance	8100 Ω +/-15% (at 20°C)

Contact side

Contact type	Single contact, 2-PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V AC/DC (at 10 mA)
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA (At 5 V)
Limiting continuous current	8 A
Interrupting rating (ohmic load) max.	190 W (at 24 V DC)
	85 W (for 48 V DC)
	60 W (for 60 V DC)
	44 W (for 110 V DC)
	60 W (for 220 V DC)
	2000 VA (for 250 V AC)

General data

Width	12.7 mm
Height	29 mm
Depth	15.7 mm
Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2.5 kV AC (50 Hz, 1 min.)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Operating mode	100% operating factor
Mechanical service life	3 x 10 ⁷ cycles
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Pollution degree	3
Surge voltage category	III
Mounting position	Any
Assembly instructions	Can be aligned without spacing (> 70 °C $\geq$ 2.5 mm)

REL-MR-120AC/21-21 Order No.: 2961448

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2961448>

Certificates / Approvals



Certification

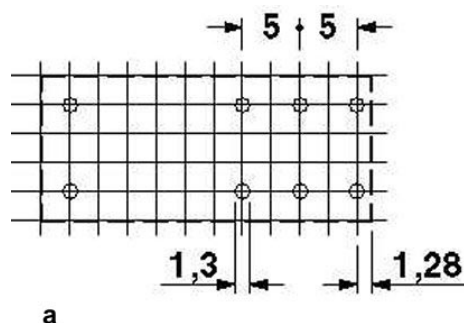
CUL, UL, VDE-PZI

Additional products

Item	Designation	Description
General		
2833518	PR1-BSC2/2X21	Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 2/2 level design, screw connections, connection facility for input/interference suppression modules
2833521	PR1-BSC3/2X21	Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, screw connections, connection facility for input/interference suppression modules
2833534	PR1-BSP3/2X21	Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, spring-cage connections, connection facility for input/interference suppression modules

Diagrams/Drawings

Drilling plan/solder pad geometry

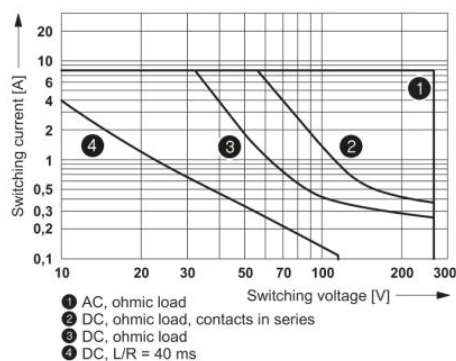
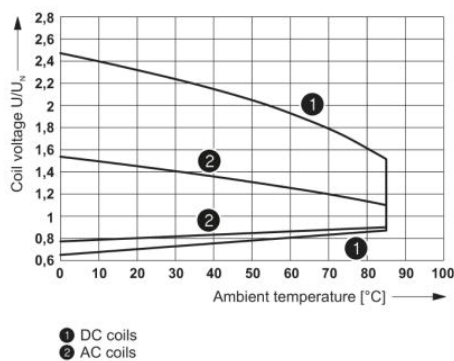


a = pitch division 2.5 mm

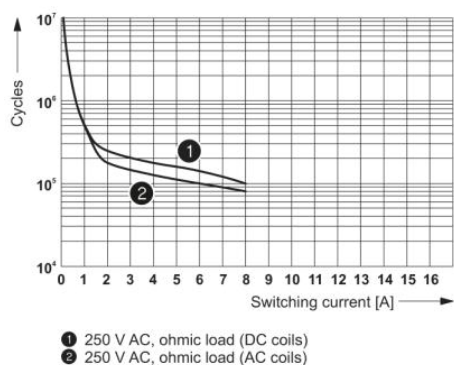
REL-MR-120AC/21-21 Order No.: 2961448

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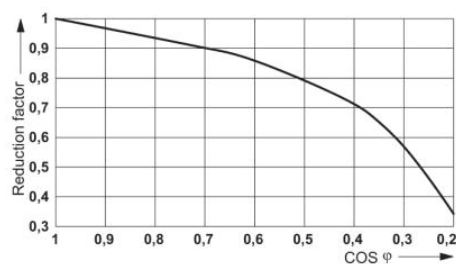
Diagram



Operating voltage range



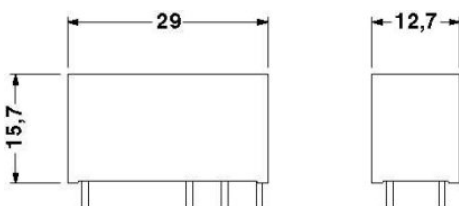
Interrupting rating



Service life reduction factor with various $\cos \phi$

Electrical service life

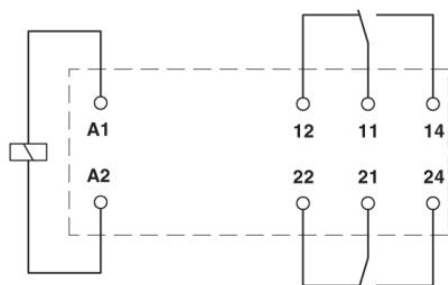
Dimensioned drawing



REL-MR-120AC/21-21 Order No.: 2961448

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Circuit diagram



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