Relay Module - RIF-1-RPT-LDP-24DC/1X21AU - 2903338

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The figure shows the 24 V DC version

Pre-assembled relay modules with push-in connection, consisting of: relay base, multi-layer contact relay, plug-in display/suppressor module, and retaining bracket. Input voltage: 24 V DC, 1 PDT

Key commercial data

package_quantity	10
GTIN	4046356732703

Technical data

Dimensions

Width	16 mm
Height	96 mm
Depth	75 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	(refer to the diagram)
Nominal input current at U_{IN}	18 mA
Typical response time	8 ms
Typical release time	10 ms
Operating voltage display	Yellow LED
Protective circuit	Damping diode
Protective circuit	Polarity protection diode

Contact side

Contact type	1 PDT
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
Maximum switching voltage	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Maximum inrush current	50 mA

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Technical data

Contact side

Min. switching current	1 mA (at 24 V)
Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (24 V (DC13))
Switching capacity in acc. with DIN VDE 0660/IEC 60947	6 A (230 V (AC 15))
Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Limiting continuous current	50 A (20 ms, N/O contact)
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	264 W (at 24 V DC)
Interrupting rating (ohmic load) max.	58 W (at 48 V DC)
Interrupting rating (ohmic load) max.	48 W (at 60 V DC)
Interrupting rating (ohmic load) max.	50 W (at 110 V DC)
Interrupting rating (ohmic load) max.	80 W (at 220 V DC)
Interrupting rating (ohmic load) max.	2750 VA (for 250 V AC)

Connection data

Connection method	Push-in connection
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section stranded min.	0.14 mm²
Conductor cross section stranded max.	1.5 mm²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.14 mm²
Conductor cross section stranded, with ferrule with plastic sleeve max.	1.5 mm²
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.14 mm²
Conductor cross section stranded, with ferrule without plastic sleeve max.	1.5 mm²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	16
Stripping length	8 mm

General

Type of note	Notes on operation
Note	FBS 2-6... plug-in bridge for the input side (A2) and FBS-2-8... plug-in bridge for the output side (11/21)
Test voltage relay winding/relay contact	4 kV_{rms} (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	IP20 (Relaissockel)
Degree of protection	RT II (Relais)
Mechanical service life	Approx. 3 x 10^7 cycles

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Technical data

General

Standards/regulations	DIN EN 50178
Standards/regulations	IEC 62103
Rated surge voltage / insulation	6 kV/safe isolation
Rated insulation voltage	250 V AC
Pollution degree	2
Surge voltage category	III
Mounting position	Any
Assembly instructions	In rows with zero spacing

classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371603
eCl@ss 5.1	27371603
eCl@ss 6.0	27371603
eCl@ss 7.0	27371603
eCl@ss 8.0	27371603

ETIM

ETIM 3.0	EC001456
ETIM 4.0	EC001456
ETIM 5.0	EC001437

UNSPSC

UNSPSC 6.01	30211917
UNSPSC 7.0901	39121516
UNSPSC 11	39121516
UNSPSC 12.01	39121516
UNSPSC 13.2	39121516

accessories

Bridge

FBS 2-6 - 3030336

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accessories

FBS 2-6 BU - 3036932

FBS 2-6 GY - 3032237

FBS 5-6 - 3030349

FBS 10-6 - 3030271

FBS 20-6 - 3030365

FBS 50-6 - 3032224

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accessories

FBS 2-8 - 3030284

FBS 2-8 BU - 3032567

FBS 2-8 GY 7042 - 3032541

End block

CLIPFIX 35 - 3022218

Test plug terminal block

MPS-MT - 0201744

Insulating sleeve

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accessories

MPS-IH WH - 0201663

MPS-IH RD - 0201676

MPS-IH BU - 0201689

MPS-IH YE - 0201692

MPS-IH GN - 0201702

MPS-IH GY - 0201728

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accessories

MPS-IH BK - 0201731

Terminal marking

ZB 5 :UNBEDRUCKT - 1050004

ZB 15:UNBEDRUCKT - 0811972

Drawings

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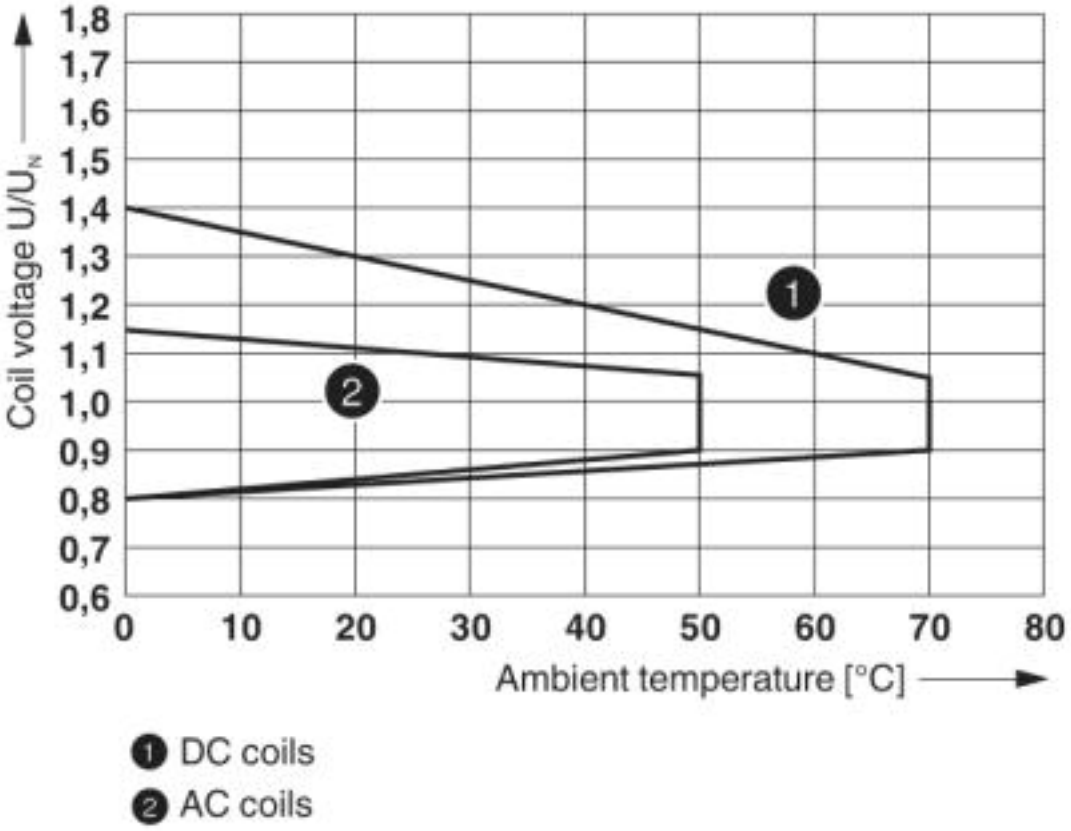
Diagram



Operating voltage range

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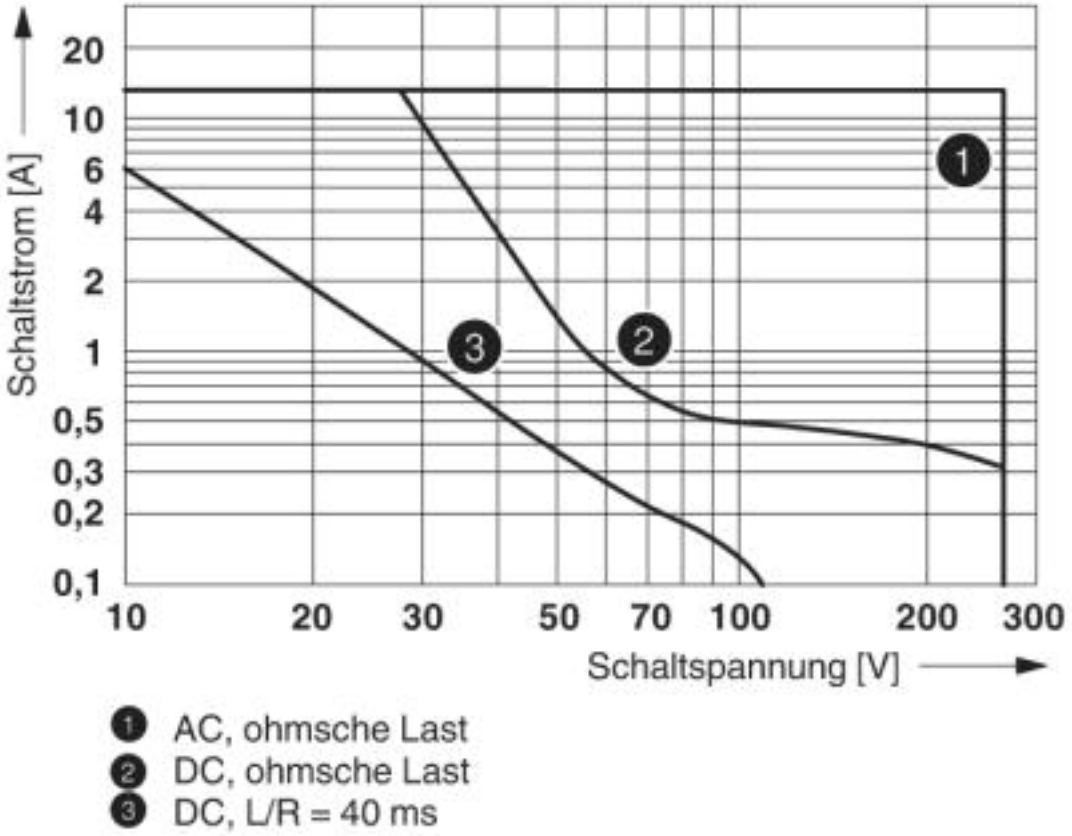
Diagram



Interrupting rating

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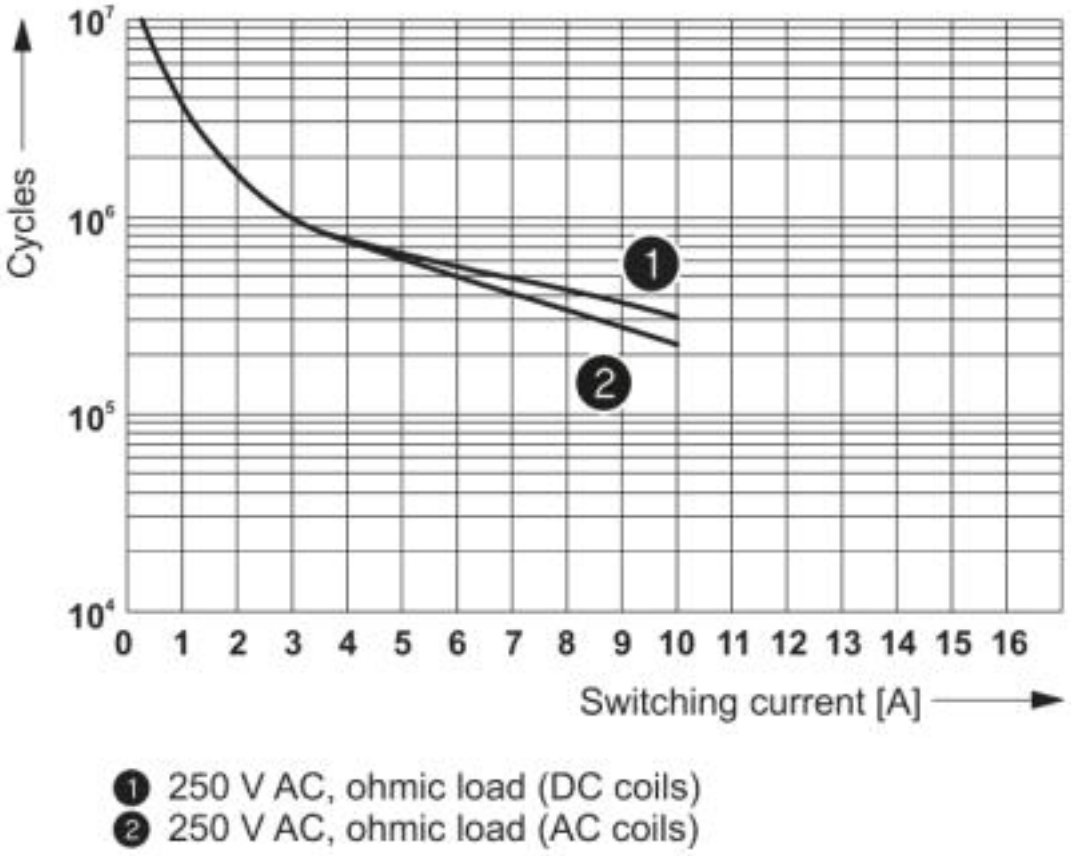
Diagram



Electrical service life

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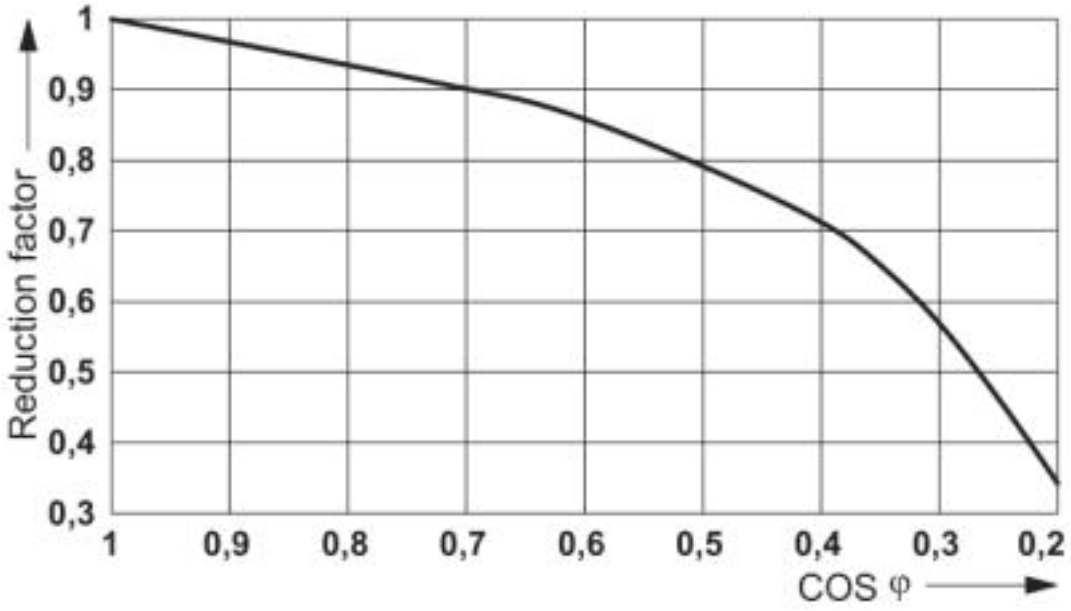
Diagram



Service life reduction factor

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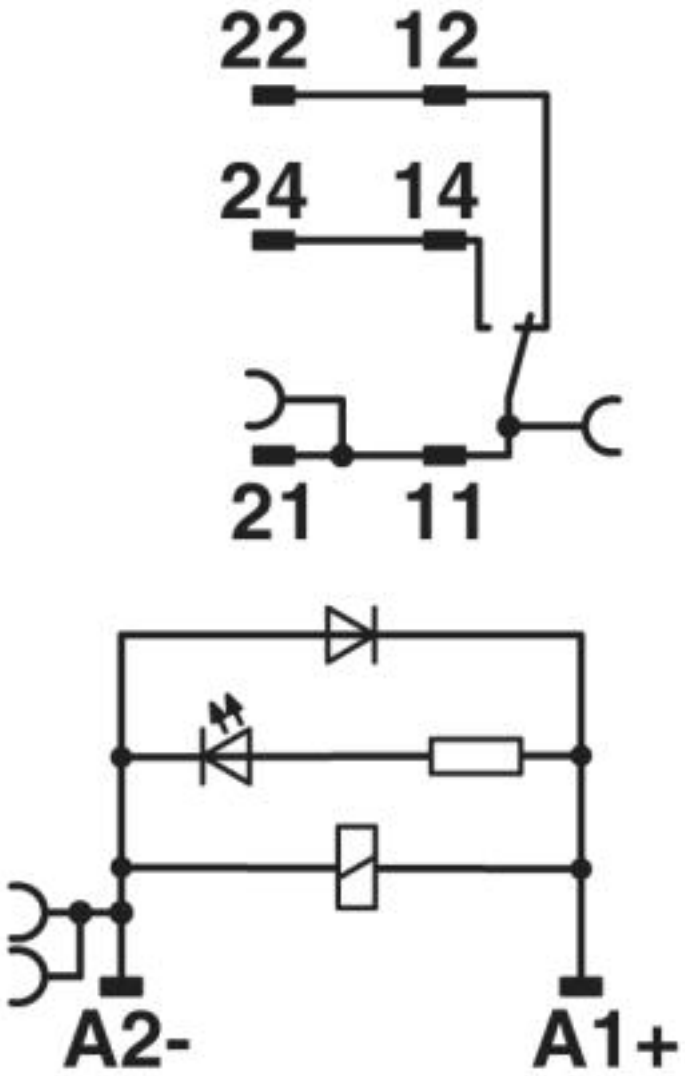
Circuit diagram



DC coils

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