

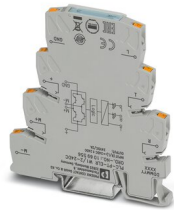
Reversing load relay - PLC-PT-ELR W1/ 2-24DC



1069556

<https://www.phoenixcontact.com/de/produkte/1069556>

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PLC-INTERFACE as an electronic reversing load relay, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and integrated circuit, for driving DC motors, with LED display and protective circuit, output: 10 ... 30 V DC/2 A

Your advantages

- Wear-free reversing
- Short-circuit, surge, and overload-proof output
- Braking by controlling both inputs
- Integrated locking circuit and load wiring

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 1069556 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | G1 - Relais |
| Product Key | CK7621 |
| Catalog Page | Page 423 (C-5-2019) |
| GTIN | 4055626744865 |
| Weight per Piece (including packing) | 54,8 g |
| Weight per Piece (excluding packing) | 38,9 g |
| Customs tariff number | 85371098 |
| Country of origin | DE |

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Technical Data

Notes

Utilization restriction

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

Product properties

| | |
|----------------|-----------------------|
| Product type | Solid-state contactor |
| Operating mode | 100% operating factor |

Insulation characteristics

| | |
|----------------------|------------------|
| Overvoltage category | II |
| Pollution degree | 2 |
| Insulation | Basic insulation |

Electrical properties

| | |
|---|--------|
| Number of phases | 1 |
| Maximum power dissipation for nominal condition | 0.4 W |
| Rated insulation voltage | 50 V |
| Rated surge voltage | 0.5 kV |

Supply

| | |
|--|-------------------------|
| Input name | Device supply |
| Rated control circuit supply voltage U_S | 24 V DC |
| Control supply voltage range | 19.2 V DC ... 28.8 V DC |

Input data

Control

| | |
|--|---|
| Input name | Control input right/left |
| Rated actuating voltage U_C | 24 V DC |
| Triggering voltage range | 19.2 V DC ... 28.8 V DC |
| Rated actuating current I_C | □ 3 mA |
| Typical response time | 200 μ s |
| Protective circuit | Reverse polarity protection Surge protection |
| Surge voltage protection | > 33 V DC |
| Transmission frequency | 300 Hz |
| Switchover time R_L/L_L (turn-on time) | 80 ms |

Output data

DC output

| | |
|------|---|
| Note | Protect the supply voltage at the output using a suitable fuse. |
|------|---|

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| | |
|-------------------------------|---|
| Rated operating voltage U_e | 24 V DC |
| Operating voltage range | 10 V DC ... 30 V DC |
| Load current | 2 A |
| Quiescent current | 10 mA |
| Protective circuit | Reverse polarity protection; Polarity protection diode (No continuous protection against polarity reversal) |
| | Surge protection |
| Surge voltage protection | > 33 V DC |

Motor switching output

| | |
|--------------------------|---------------------------------------|
| Note | Short-circuit and overload protection |
| Continuous load current | 2 A (see derating curve) |
| Short-circuit current | 15 A (during braking) |
| Protective circuit | Surge protection |
| | RC element |
| Surge voltage protection | > 33 V DC |

Connection data

| | |
|----------------------------------|--|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross section solid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 2.5 mm ² |
| | 0.2 mm ² ... 2.5 mm ² (Single ferrule) |
| | 2x 0.5 mm ² ... 1 mm ² (TWIN ferrule) |
| Conductor cross section AWG | 26 ... 14 |

LED signaling

| | |
|---------------------------|------------|
| Status display | Yellow LED |
| Operating voltage display | Green LED |

Dimensions

| | |
|--------|--------|
| Width | 6.5 mm |
| Height | 80 mm |
| Depth | 86 mm |

Material specifications

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Approval data

Reversing load relay - PLC-PT-ELR W1/ 2-24DC



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UKCA

| | |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

CE

| | |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

Standards and regulations

Air clearances and creepage distances between the power circuits

| | |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
| | EN 50178 |

Mounting

| | |
|-----------------------|--------------------------------|
| Mounting type | DIN rail mounting |
| Assembly instructions | in rows with zero spacing |
| Mounting position | Vertical (horizontal DIN rail) |

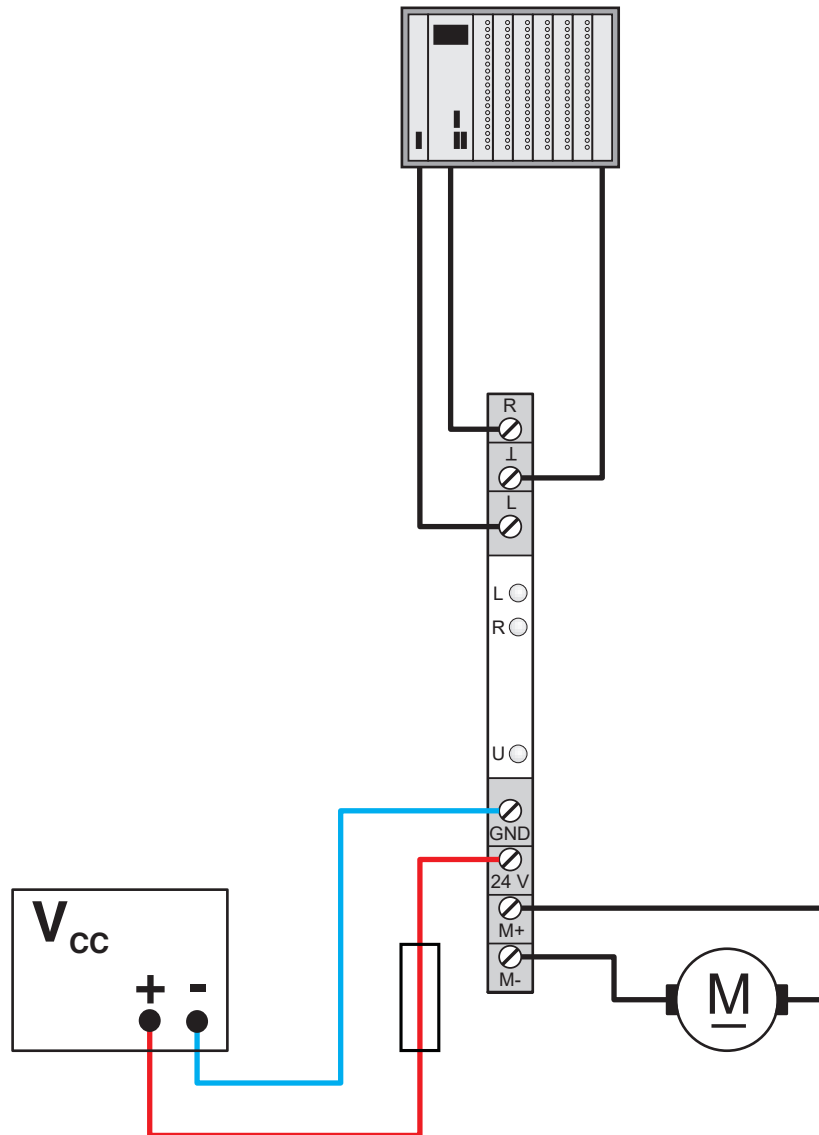
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Drawings

Application drawing

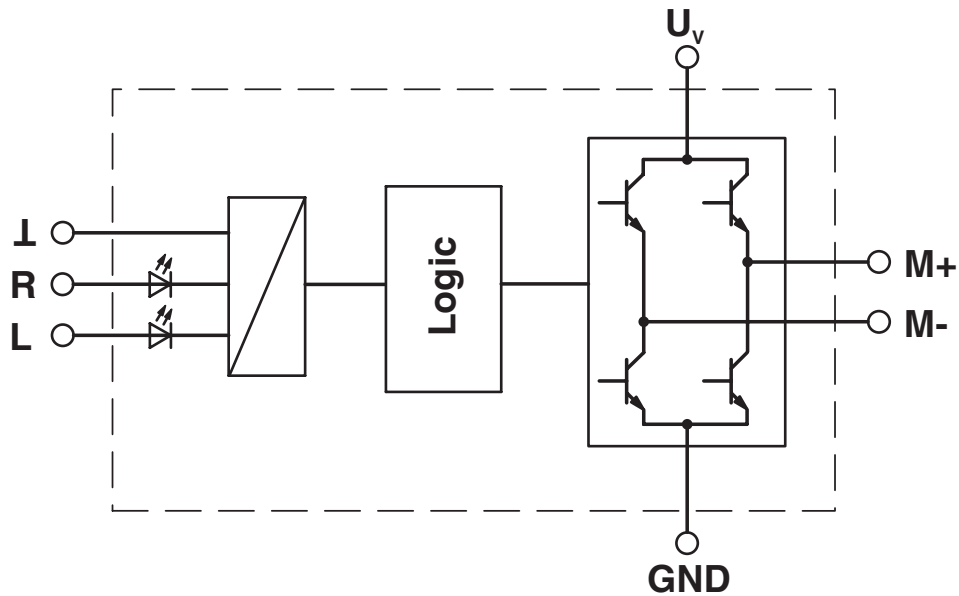


Reversing load relay - PLC-PT-ELR W1/ 2-24DC

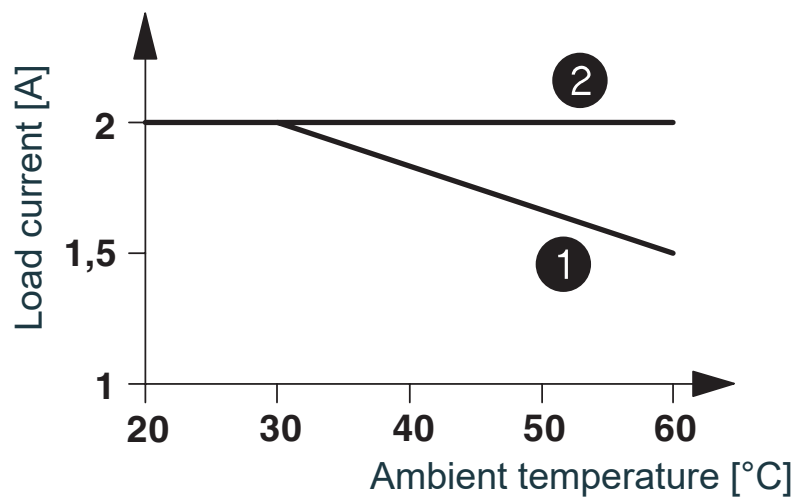
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Circuit diagram



Diagram



- ① In rows with zero spacing
- ② stand-alone device

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Approvals



EAC

Approval ID: TR_TS_D_00573_c

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Classifications

ECLASS

| | |
|---------------|----------|
| ECLASS-9.0 | 27371014 |
| ECLASS-10.0.1 | 27371014 |
| ECLASS-11.0 | 27371014 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC002055 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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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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Accessories

 Note: Applying some accessories below might limit this product.


Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC RD - 2966786

<https://www.phoenixcontact.com/de/produkte/2966786>



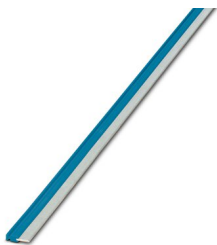
Continuous plug-in bridge, color: red

 Max. current carrying capacity: 32 A

Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC BU - 2966692

<https://www.phoenixcontact.com/de/produkte/2966692>



Continuous plug-in bridge, color: blue

 Max. current carrying capacity: 32 A

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Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC GY - 2966838

<https://www.phoenixcontact.com/de/produkte/2966838>



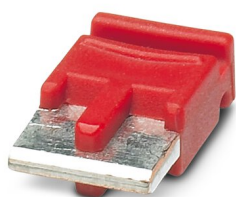
Continuous plug-in bridge, color: gray

 Max. current carrying capacity: 32 A

Single plug-in bridge

Single plug-in bridge - FBST 6-PLC RD - 2966236

<https://www.phoenixcontact.com/de/produkte/2966236>



Single plug-in bridge, color: red

 Max. current carrying capacity: 6 A

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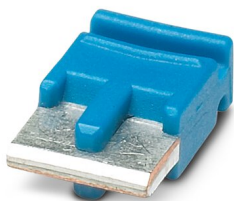
<https://www.phoenixcontact.com/de/produkte/1069556>


Single plug-in bridge

Single plug-in bridge - FBST 6-PLC BU - 2966812

<https://www.phoenixcontact.com/de/produkte/2966812>

Single plug-in bridge, color: blue



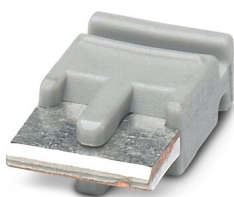
 Max. current carrying capacity: 6 A


Single plug-in bridge

Single plug-in bridge - FBST 6-PLC GY - 2966825

<https://www.phoenixcontact.com/de/produkte/2966825>

Single plug-in bridge, color: gray



 Max. current carrying capacity: 6 A

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<https://www.phoenixcontact.com/de/produkte/1069556>

Single plug-in bridge

Single plug-in bridge - FBST 8-PLC GY - 2967688

<https://www.phoenixcontact.com/de/produkte/2967688>

Single plug-in bridge, color: gray



 Max. current carrying capacity: 6 A

DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 V2A UNPERF 2000MM - 0801377

<https://www.phoenixcontact.com/de/produkte/0801377>



DIN rail, unperforated, acc. to EN 60715, material: Stainless steel V2A, uncoated, Standard profile, color: silver, Pack of 25 (50 m)

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DIN rail perforated

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733

<https://www.phoenixcontact.com/de/produkte/0801733>



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - 0801762

<https://www.phoenixcontact.com/de/produkte/0801762>



DIN rail, unperforated, acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

Reversing load relay - PLC-PT-ELR W1/ 2-24DC

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<https://www.phoenixcontact.com/de/produkte/1069556>

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714

<https://www.phoenixcontact.com/de/produkte/1201714>



DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM-VPE 10 - 1201895

<https://www.phoenixcontact.com/de/produkte/1201895>



DIN rail, unperforated, similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

Reversing load relay - PLC-PT-ELR W1/ 2-24DC



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DIN rail, unperforated

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM-VPE 10 - 1201798

<https://www.phoenixcontact.com/de/produkte/1201798>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver, Pack of 10 (20 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756

<https://www.phoenixcontact.com/de/produkte/1201756>



DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

Reversing load relay - PLC-PT-ELR W1/ 2-24DC

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<https://www.phoenixcontact.com/de/produkte/1069556>

DIN rail perforated

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730

<https://www.phoenixcontact.com/de/produkte/1201730>



DIN rail perforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681

<https://www.phoenixcontact.com/de/produkte/0801681>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

Reversing load relay - PLC-PT-ELR W1/ 2-24DC

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<https://www.phoenixcontact.com/de/produkte/1069556>

Power terminal block

Power terminal block - PLC-ESK GY - 2966508

<https://www.phoenixcontact.com/de/produkte/2966508>



Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5

Separating plate

Separating plate - PLC-ATP BK - 2966841

<https://www.phoenixcontact.com/de/produkte/2966841>



Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation

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<https://www.phoenixcontact.com/de/produkte/1069556>

Screwdriver

Screwdriver - SZF 1-0,6X3,5 - 1204517

<https://www.phoenixcontact.com/de/produkte/1204517>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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