

Hybrid motor starter - ELR H5-I-SC- 24DC/500AC-0,6 - 2900573

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"3 in 1" hybrid motor starter for reversing 3~ AC motors up to 550 V AC, with 24 V DC input, 0.6 A output current, and adjustable overload shutdown.

The figure shows the 9 A version

Product Features

- 22.5 mm wide
- Space saving
- Long service life
- Reduction in wiring
- 3-phase loop bridges
- Bimetal function can be set up to 9 A



Key commercial data

| | |
|------------------|---------------|
| package_quantity | 1 |
| GTIN | 4046356527859 |

Technical data

Dimensions

| | |
|--------|----------|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -25 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Degree of protection | IP20 |

Input data

| | |
|---------------------------------------|---------------|
| Input name | Device supply |
| Rated control supply voltage U_s | 24 V DC |
| Voltage range with reference to U_s | 0.8 ... 1.25 |
| Rated control supply current I_s | 40 mA |
| Rated actuating voltage U_c | 24 V DC |
| Voltage range with reference to U_c | 0.8 ... 1.25 |

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Technical data

Input data

| | |
|---|---|
| Rated actuating current I_c | 5 mA |
| Switching threshold "0" signal, voltage | 9.6 V |
| Switching threshold "1" signal voltage | 19.2 V |
| Protective circuit | Protection against polarity reversal Parallel polarity protection diode |
| Protective circuit | Surge protection |
| Typical response time | < 35 ms |
| Typical turn-off time | < 40 ms |
| Operating voltage display | Green LED |
| Status display | Yellow LED |
| Indication | Red LED |
| Input name | Control input right/left |

Output data

| | |
|-----------------------------------|---------------------------------------|
| Output name | AC output |
| Nominal output voltage | 500 V AC |
| Nominal output voltage range | 42 V AC ... 550 V AC |
| Load current | max. 600 mA (see derating curve) |
| Rated operating current at AC-51 | 0.6 A |
| Rated operating current at AC-53a | 0.6 A |
| Leakage current | 0 mA |
| Residual voltage | < 0.2 V |
| Surge current | 100 A (t = 10 ms) |
| Type of protection | Surge protection |
| Output name | Acknowledge output |
| Note | Confirmation 01: Floating PDT contact |
| Nominal output voltage | max. 250 V AC |
| Continuous load current | 6 A |

Output data, signaling contact

| | |
|---------------|---|
| Measuring via | Current transformer for line current on L1 and L3 |
|---------------|---|

Connection data

| | |
|--|----------------------|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.14 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 26 |
| Conductor cross section AWG/kcmil max | 14 |

General

| | |
|---------------------------|--------------------------------|
| Test voltage input/output | 4 kV _{rms} |
| Mounting position | Vertical (horizontal DIN rail) |

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Technical data

General

| | |
|---|---|
| Assembly instructions | Can be aligned with spacing = 20 mm |
| Operating mode | 100% operating factor |
| Name | Standards/regulations |
| Standards/regulations | DIN EN 50178 |
| Standards/regulations | EN 60947 |
| Name | Power station requirements |
| Standards/regulations | DWR 1300 / ZXX01/DD/7080.8d |
| Name | Air and creepage distances between the power circuits |
| Standards/regulations | DIN EN 50178 |
| Rated surge voltage / insulation | 6 kV/safe isolation |
| Rated insulation voltage | 500 V |
| Pollution degree | 2 |
| Surge voltage category | III |

classifications

eCl@ss

| | |
|-------------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371601 |
| eCl@ss 5.1 | 27371601 |
| eCl@ss 6.0 | 27371601 |
| eCl@ss 7.0 | 27371601 |
| eCl@ss 8.0 | 27371601 |

ETIM

| | |
|-----------------|----------|
| ETIM 2.0 | EC000066 |
| ETIM 3.0 | EC000066 |
| ETIM 4.0 | EC000066 |
| ETIM 5.0 | EC000066 |

UNSPSC

| | |
|----------------------|----------|
| UNSPSC 6.01 | 30211915 |
| UNSPSC 7.0901 | 39121514 |
| UNSPSC 11 | 39121514 |
| UNSPSC 12.01 | 39121514 |
| UNSPSC 13.2 | 39121514 |

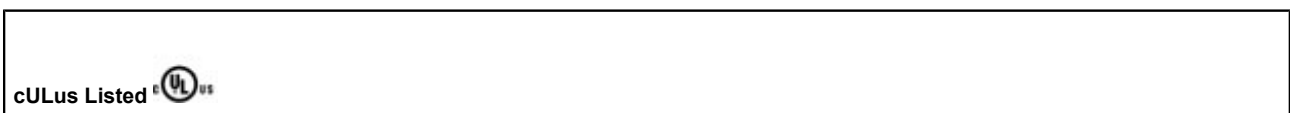
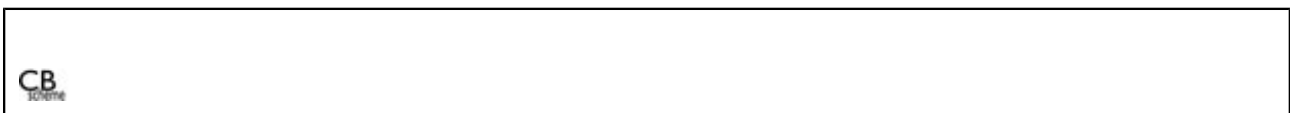
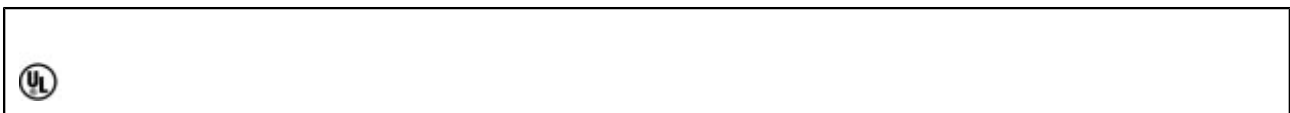
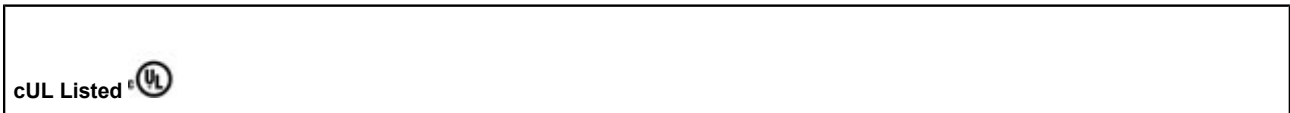
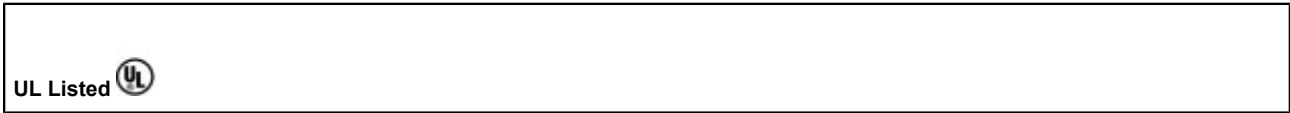
approvals

UL Listed / cUL Listed / IECCEB Scheme / UL Listed / cUL Listed / IECCEB Scheme / cULus Listed /

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approvals

Approval details



accessories

Loop bridge

BRIDGE- 2 - 2900746



Hybrid motor starter - ELR H5-I-SC- 24DC/500AC-0,6 - 2900573

accessories

BRIDGE- 3 - 2900747



BRIDGE- 4 - 2900748



BRIDGE- 5 - 2900749



BRIDGE- 6 - 2900750



BRIDGE- 7 - 2900751



BRIDGE- 8 - 2900752



Hybrid motor starter - ELR H5-I-SC- 24DC/500AC-0,6 - 2900573

accessories

BRIDGE- 9 - 2900753



BRIDGE-10 - 2900754



BRIDGE- 2-3M - 2901543



BRIDGE- 3-3M - 2901656



BRIDGE- 4-3M - 2901659



Hybrid motor starter - ELR H5-I-SC- 24DC/500AC-0,6 - 2900573

accessories

BRIDGE- 5-3M - 2901545



BRIDGE- 6-3M - 2901697



BRIDGE- 7-3M - 2901698



BRIDGE- 8-3M - 2901700



BRIDGE- 9-3M - 2901701



BRIDGE-10-3M - 2901702



Hybrid motor starter - ELR H5-I-SC- 24DC/500AC-0,6 - 2900573

accessories

BRIDGE- 2-1M - 2901542



BRIDGE- 3-1M - 2901655



BRIDGE- 4-1M - 2901658



BRIDGE- 5-1M - 2901544



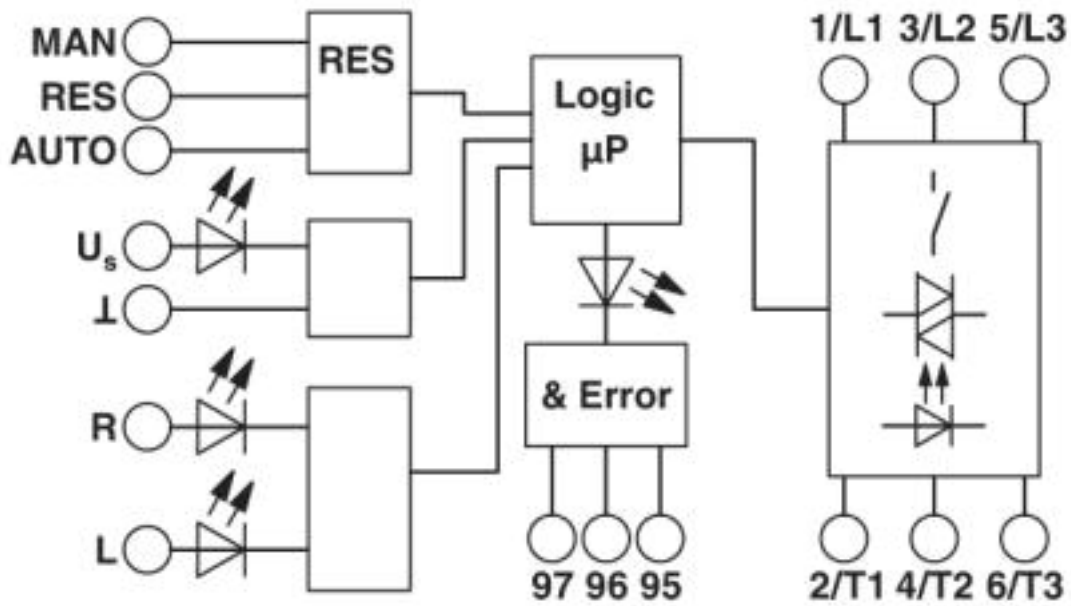
BRIDGE- 6-1M - 2901649



Drawings

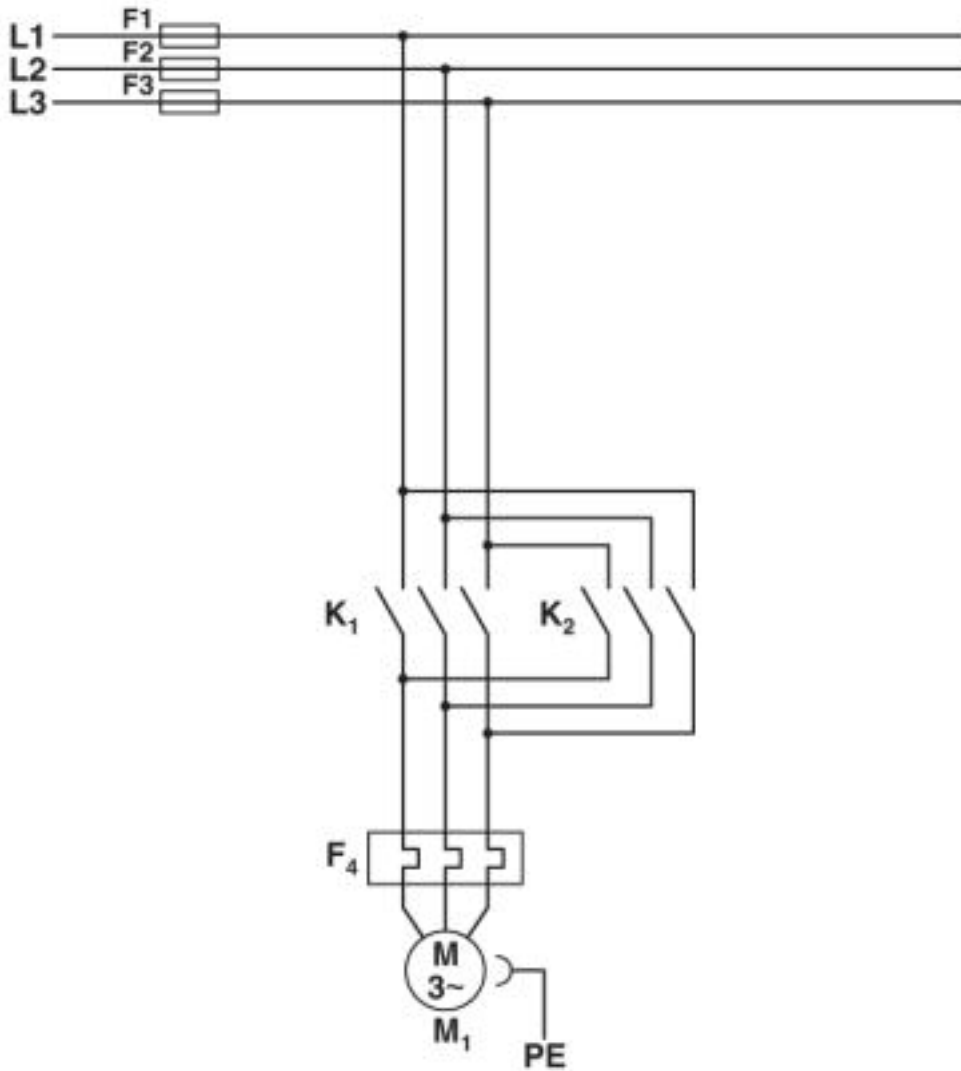
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Block diagram



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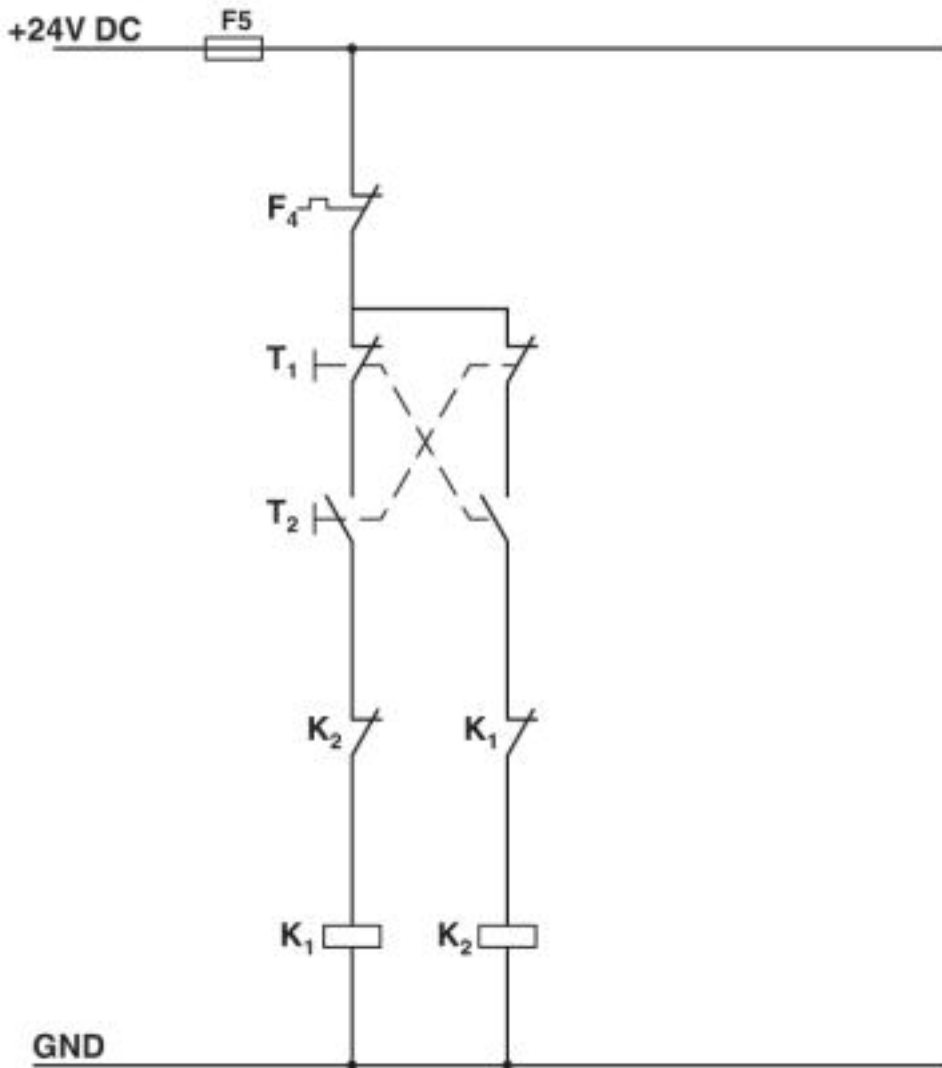
Circuit diagram



Conventional structure
Main current path contactor K1 = Left contactor
K2 = Right contactor
F4 = Motor protection relay

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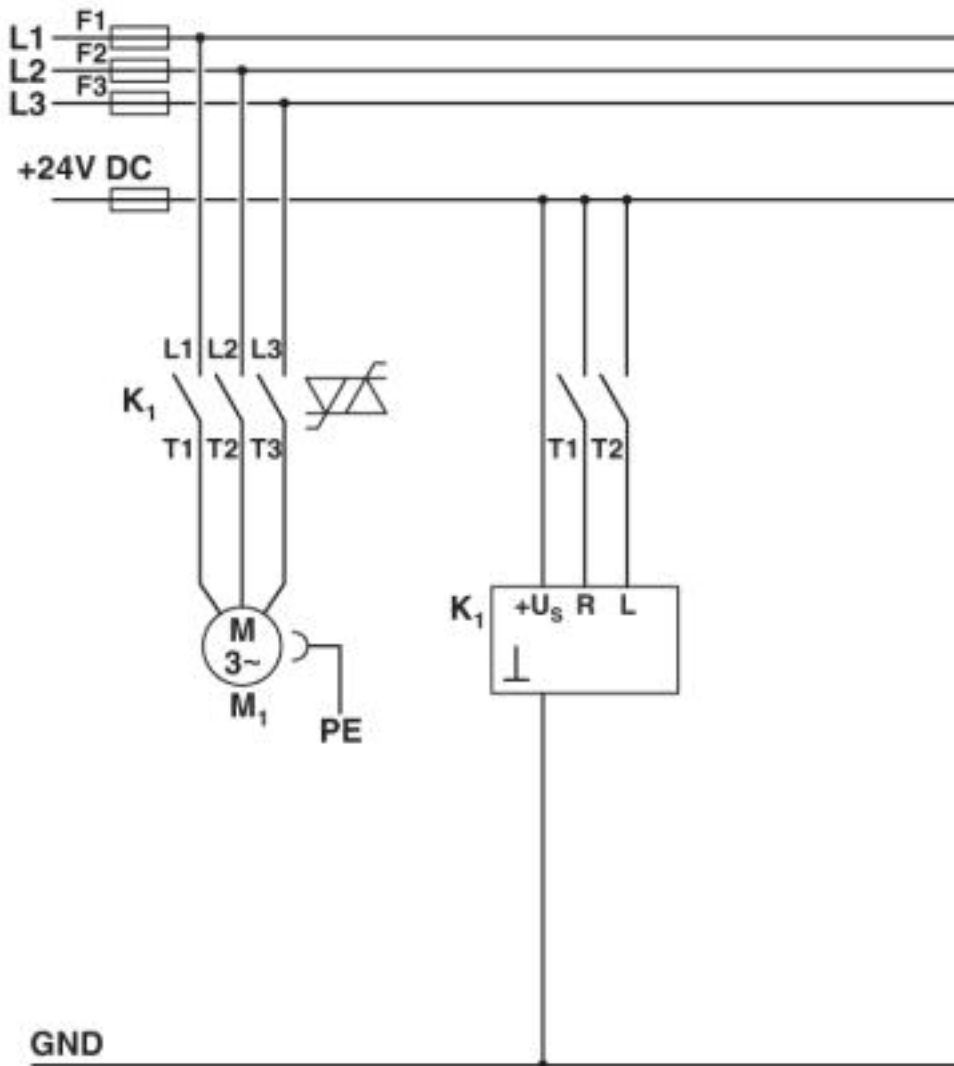
Circuit diagram



Conventional structure
Control current path contactor
K1 = Left contactor
K2 = Right contactor
T1 = Left, T2 = Right
F4 = Motor protection relay

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Circuit diagram



Structure with CONTACTRON Main and control current path for "3 in 1" hybrid motor starter
K1 = "3 in 1" hybrid motor starter
T1 = Right, T2 = Left

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