

Hybrid motor starter - ELR H5-I-SC-24DC/500AC-9-SP - 2904678

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Hybrid motor starter for reversing 3~ AC motors up to 550 V AC, with 24 V DC input, 9 A output current, adjustable overload shutdown, and with no underload detection.

The figure shows the ELR H5-I-SC-24DC/500AC-9 version

Product Features

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



Key Commercial Data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 300.0 g |
| Custom tariff number | 85371099 |
| Country of origin | Germany |

Technical data

Input data

| | |
|--|--|
| Input name | Device supply |
| Rated control circuit supply voltage U_s | 24 V DC |
| Control supply voltage range | 19.2 V DC ... 30 V DC |
| Rated control supply current I_s | 40 mA |
| Protective circuit | Reverse polarity protection Parallel polarity protection diode |
| | Surge protection |
| Operating voltage display | Green LED |

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Technical data

Input data

| | |
|-------------------------------|-----------------------------|
| Status display | Yellow LED |
| Indication | Red LED |
| Input name | Control input right/left |
| Rated actuating voltage U_C | 24 V DC |
| Rated actuating current I_C | 5 mA |
| Switching threshold | 9.6 V ("0" signal) |
| | 19.2 V ("1" signal) |
| Protective circuit | Reverse polarity protection |
| Typical turn-off time | < 30 ms |

Ambient conditions

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

Output data

| | |
|-----------------------------------|--|
| Output name | AC output |
| Rated operating current at AC-51 | 9 A |
| Rated operating current at AC-53a | 6.5 A |
| Leakage current | 0 mA |
| Type of protection | Surge protection |
| Protective circuit/component | Varistor |
| Output name | Acknowledge output |
| Note | Confirmation: floating change-over contact, signal contact |

Connection data, control circuit

| | |
|----------------------------------|---|
| Connection name | Control circuits |
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 14 |
| Torque | 0.5 Nm ... 0.6 Nm |

General

| | |
|-----------------------|--|
| Switching frequency | ≤ 2 Hz (Load-dependent) |
| Mounting position | vertical (horizontal DIN rail, motor output below) |
| Assembly instructions | alignable, for spacing see derating |

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Technical data

General

| | |
|-----------------------|-----------------------|
| Operating mode | 100% operating factor |
| Designation | Standards/regulations |
| Standards/regulations | IEC 60947-1 |
| | EN 60947-4-2 |
| | IEC 61508 |
| | ISO 13849 |

Standards and Regulations

| | |
|-----------------------|-----------------------|
| Designation | Standards/regulations |
| Standards/regulations | IEC 60947-1 |
| | EN 60947-4-2 |
| | IEC 61508 |
| | ISO 13849 |

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 | 27370905 |
| eCl@ss 9.0 | 27370905 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC000066 |
| ETIM 5.0 | EC002055 |

UNSPSC

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



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Approvals

Approvals

Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approvals submitted

Approval details

UL Listed 

cUL Listed 

UL Listed 

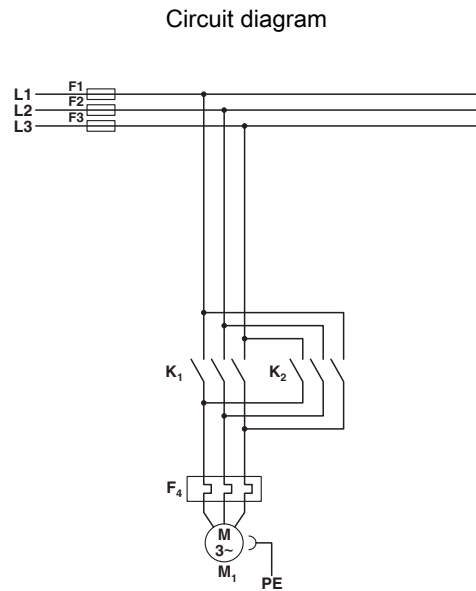
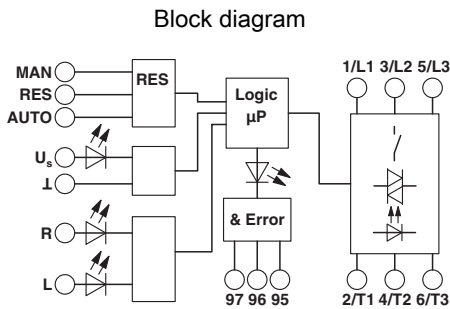
cUL Listed 

EAC

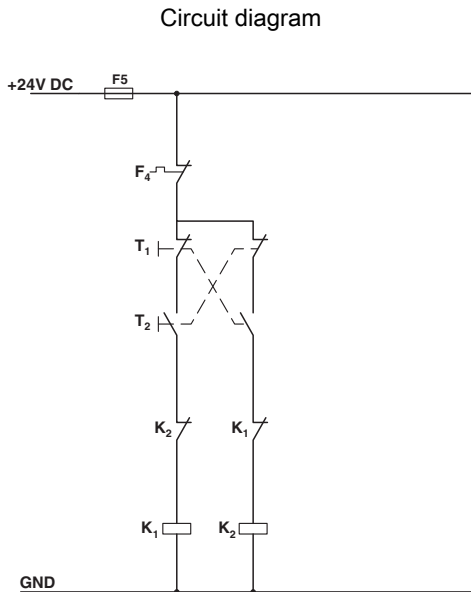
cULus Listed 

Drawings

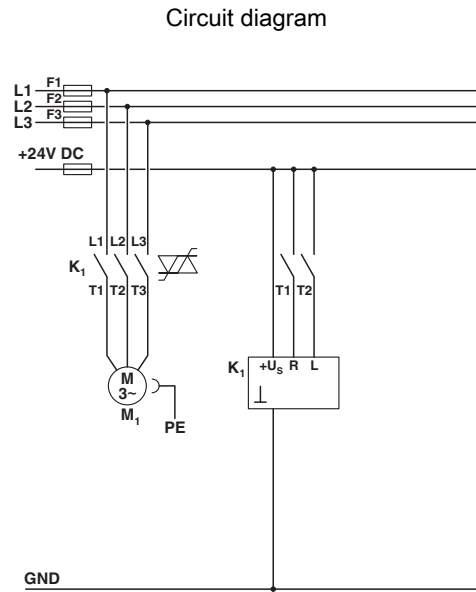
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Conventional structure
Main current path contactor
K1 = Left contactor
K2 = Right contactor
F4 = Motor protection relay



Conventional structure
Control current path contactor
K1 = Left contactor



Structure with CONTACTRON
Main and control current path for '3 in 1' hybrid motor starter
K1 = '3 in 1' hybrid motor starter

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K2 = Right contactor

T1 = Right, T2 = Left

T1 = Left, T2 = Right

F4 = Motor protection relay

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