

ELR H5-IES-SC- 24DC/500AC-2


Order No.: 2900414



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2900414>

"4 in 1" hybrid motor starter for reversing 3~ AC motors up to 550 V AC, with 24 V DC input, 2.4 A output current, emergency stop function, and adjustable overload shutdown.



| Commercial data | |
|--------------------------|---|
| GTIN (EAN) | 4  046356 504058 |
| sales group | G420 |
| Pack | 1 pcs. |
| Customs tariff | 85364900 |
| Catalog page information | Page 230 (NTK-2010) |

Product notes

WEEE/RoHS-compliant since:
02/09/2010



<http://www.download.phoenixcontact.com>
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| Technical data | |
|--|--------------|
| Input data | |
| Rated control supply voltage U_s | 24 V DC |
| Rated control supply 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 |
| Rated actuating voltage range with reference to U_c | 0.8 ... 1.25 |
| Rated actuating current I_c | 3 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 |
| | 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 |

Output data, load relay

| | |
|------------------------------|---------------------------------------|
| Output name | AC output |
| Nominal output voltage | 500 V AC |
| Nominal output voltage range | 42 V AC ... 550 V AC |
| Load current | max. 2.4 A (see derating curve) |
| Leakage current | 0 mA |
| Residual voltage | < 0.3 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. 253 V AC 0% ... 100% (300 V DC) |
| Continuous load current | 2 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 | 12 |
| General data | |
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |
| Test voltage input/output | 4 kV _{rms} |
| Ambient temperature (operation) | -25 °C ... 70 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Mounting position | Vertical (horizontal DIN rail) |
| Assembly instructions | Can be aligned with spacing = 20 mm |
| Operating mode | 100% operating factor |
| Degree of protection | IP20 |
| Name | Standards/regulations |
| Standards/regulations | DIN EN 50178 |
| | 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 |
| Safety integrity level according to IEC 61508-1 | SIL 3 (safe shutdown) |
| | SIL 2 (motor protection) |
| Category as per ISO 13849-1 | 3 |
| Performance Level as per ISO 13849-1 | e |
| Category in acc. with EN 954-1 | 3 |

Certificates / Approvals



Certification

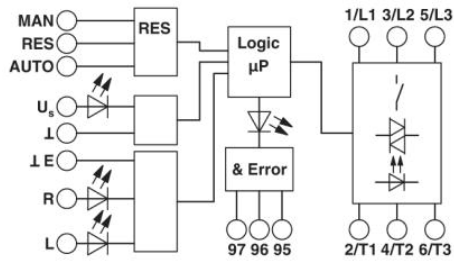
CB, CUL Listed, UL Listed

Certification Ex:

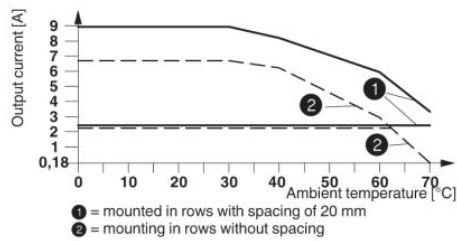
PTB

Diagrams/Drawings

Block diagram

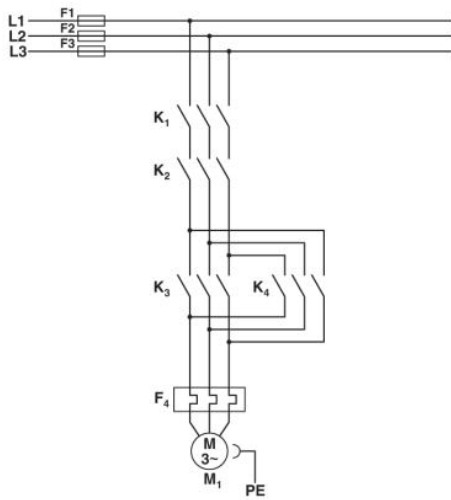


Diagram



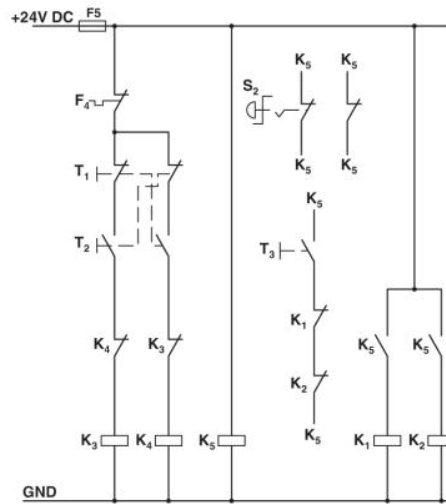
Derating curve ELR H5-IES-SC- 24DC/500AC-2 and ELR H5-IES-SC- 24DC/500AC-9

Circuit diagram



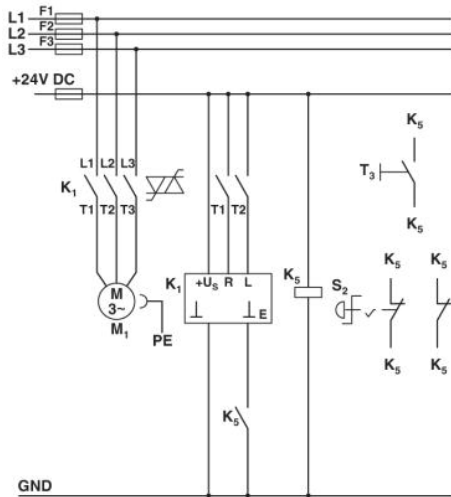
Conventional structure

Main current path for reversing contactor according to category 3
 K1 + K2 = Emergency stop contactor
 K3 = Left contactor
 K4 = Right contactor
 F4 = Motor protection relay



Conventional structure

Control current path for reversing contactor according to category 3
 K1 + K2 = Emergency stop contactor
 K3 = Left contactor
 K4 = Right contactor
 K5 = PSR SCP-24DC.../safety relay
 T1 = Left, T2 = Right, T3 = Reset
 S2 = Emergency stop
 F4 = Motor protection relay



Structure with CONTACTRON

Main and control current path for "4 in 1" hybrid motor starter with reversing function according to category 3
 K1 = "4 in 1" hybrid motor starter with reversing function
 K5 = PSR SCP-24DC.../safety relay
 T1 = Left, T2 = Right, T3 = Reset
 S2 = Emergency stop

Address

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