


**ELR H3-I-SC- 24DC/500AC-9**

Order No.: 2900545

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2900545>

"2 in 1" hybrid motor starter for starting 3~ AC motors up to 550 V AC, with 24 V DC input, 9 A output current, and adjustable overload shutdown.

**Commercial data**

|                |   |
|----------------|---|
| GTIN (EAN)     |  |
| sales group    | G411  |
| Pack           | 1 pcs.  |
| Customs tariff | 85364900  |

**Product notes**WEEE/RoHS-compliant since:  
02/09/2010

<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

**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 $I_s$                         | 35 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 | 48 V AC ... 550 V AC                  |
| Load current                 | max. 9 A (see derating curve)         |
| Leakage current              | 0 mA                                  |
| Residual voltage             | < 0.5 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 <sup>2</sup> |
| Conductor cross section solid max.    | 2.5 mm <sup>2</sup>  |
| Conductor cross section stranded min. | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max. | 2.5 mm <sup>2</sup>  |

|   |   |
|---|---|
| Conductor cross section AWG/kcmil min.  | 26  |
| Conductor cross section AWG/kcmil max   | 12  |
| <b>General data</b>                     |   |
| Width                                   | 22.5 mm   |
| Height                                  | 99 mm   |
| Depth                                   | 114.5 mm  |
| Test voltage input/output               | 4 kV <sub>rms</sub>                                   |
| 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   |

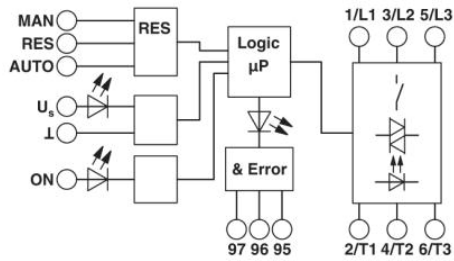
**Certificates / Approvals**



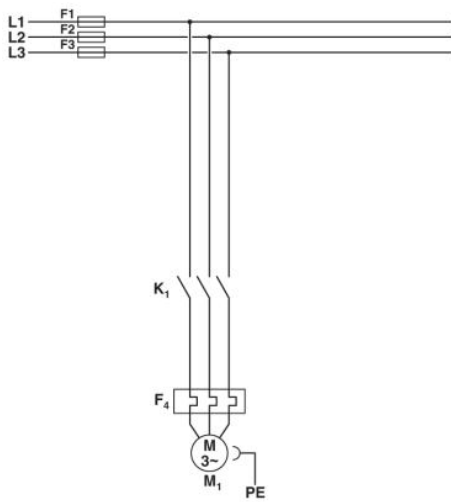
Certification CB, CUL Listed, UL Listed  
 Certification Ex: PTB

**Diagrams/Drawings**

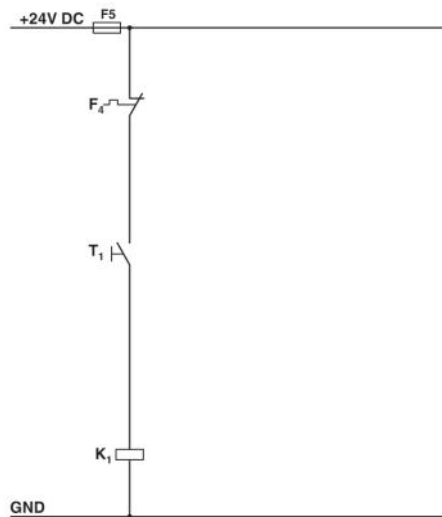
Block diagram



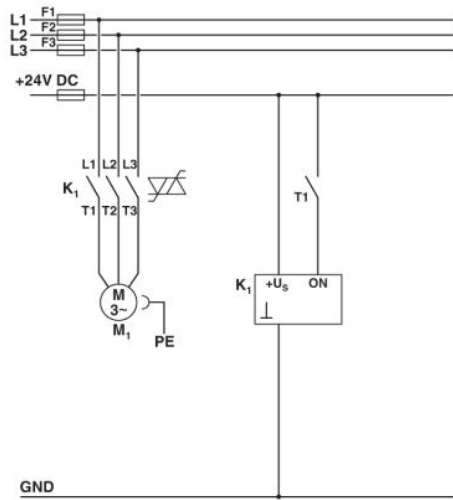
Circuit diagram



**Conventional structure**  
 Main current path for reversing contactor according to category 3  
 K1 = Right contactor  
 F4 = Motor protection relay



**Conventional structure**  
 Control current path for contactor according to category 3  
 K1 = Right contactor  
 T1 = Right, T3 = Reset  
 F4 = Motor protection relay



**Structure with CONTACTRON**

Main and control current path for "2 in 1" hybrid motor starter according to category 3

K1 = "2 in 1" hybrid motor starter

T1 = Right, T3 = Reset

**Address**

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