

## Excellent Integrated System Limited

Stocking Distributor

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Extract from the online catalog

## ELR H3-SC- 24DC/500AC-9


Order No.: 2900530



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2900530>

Hybrid "1 in 1" motor starter for starting 3~ AC motors with up to 550 V AC, with 24 V DC input, 9 A output current.



| Commercial data          |  |
|--------------------------|--|
| GTIN (EAN)               | <br>4 046356 526012 |
| sales group              | G411   |
| Pack                     | 1 pcs.   |
| Customs tariff           | 85364900   |
| Catalog page information | Page 235 (NTK-2010)  |

### 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 $I_s$                         | 40 mA        |

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|   |   |
|---|---|
| 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. 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              |

**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                   |

**General data**

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

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|   |   |
|---|---|
| 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                                    | 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**

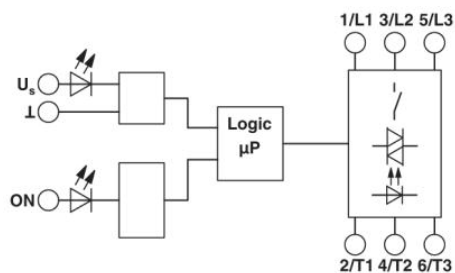


Certification

CB, CUL Listed, UL Listed

**Diagrams/Drawings**

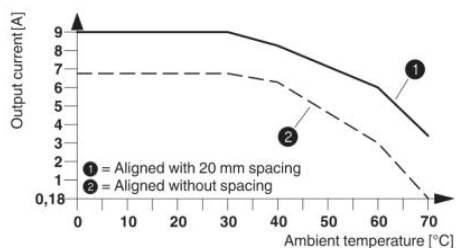
Block diagram



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Diagram



Derating curve for ELR H5-SC-24DC/500AC-9  
100% operating time

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