

# ELR H5-I-SC/500AC-06-IFS - Hybrid motor starter



2905157

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Networkable hybrid motor starter for reversing 3~ AC motors up to 500 V AC, output current: 0.6 A, adjustable overload shutdown, and screw connection, DIN rail connector provided.

## Your advantages

- 22.5 mm wide
- Reduction in wiring
- Space saving
- Long service life
- 3-phase loop bridges
- Adjustable current for bimetal function
- Low-wear switching

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2905157                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C474                           |
| Product key                          | DK7442                         |
| GTIN                                 | 4046356920124                  |
| Weight per piece (including packing) | 290 g                          |
| Weight per piece (excluding packing) | 282.7 g                        |
| Customs tariff number                | 85371098                       |
| Country of origin                    | DE                             |

## Technical data

### Product properties

|                |                       |
|----------------|-----------------------|
| Product type   | Hybrid motor starters |
| Product family | CONTACTRON            |
| Operating mode | 100% operating factor |

### Electrical properties

|   |                         |
|---|-------------------------|
| Number of phases                                | 3                       |
| Motor starter type                              | Reversing starter       |
| Switching frequency                             | ≤ 2 Hz (Load-dependent) |
| Maximum power dissipation for nominal condition | 0.5 W                   |
| Switching frequency                             | ≤ 2 Hz (Load-dependent) |
| Maximum power dissipation                       | 2.5 W                   |
| Minimum power dissipation                       | 0.88 W                  |
| Coordination type                               | 1                       |

### 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 $I_S$         | 60 mA   |
| Protective circuit                         | Surge protection<br>Reverse polarity protection; Parallel polarity protection diode |

### Insulation characteristics

|  |   |
|--|---|
| Rated insulation voltage   | 550 V   |
| Rated surge voltage  | 6 kV  |
| Overvoltage category   | III   |
| Degree of pollution  | 2   |
| Insulation characteristics between the control input and control supply voltage, and auxiliary circuit to the main circuit | Safe isolation (IEC 60947-1)  |
| Isolation characteristics between the control input and control supply voltage to auxiliary circuit                        | Safe isolation (IEC 60947-1) in the auxiliary circuit ≤ 300 V AC<br>Safe isolation (EN 50178) in the auxiliary circuit ≤ 300 V AC |

### Emergency tripping

|                   |         |
|-------------------|---------|
| Operate threshold | > 10 A  |
| Response time     | < 0.5 s |

## Output data

### AC output

|                               |                                 |
|-------------------------------|---------------------------------|
| Rated operating voltage $U_e$ | 500 V AC                        |
| Operating voltage range       | 42 V AC ... 550 V AC            |
| Rated operating current $I_e$ | 0.6 A (AC-51)<br>0.6 A (AC-53a) |
| Mains frequency               | 50/60 Hz                        |

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|   |                                    |
|---|------------------------------------|
| Load current range                                | 75 mA ... 600 mA (see to derating) |
| Trigger characteristic in acc. with IEC 60947-4-2 | Class 10                           |
| Cooling time                                      | 20 min (for auto reset)            |
| Leakage current                                   | 0 mA                               |
| Protective circuit                                | Surge protection; Varistor         |

## Connection data

### Control circuits

|                                  |  |
|----------------------------------|--|
| Connection method                | Screw connection   |
| Stripping length                 | 8 mm   |
| Screw thread                     | M3   |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                            |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                            |
| Conductor cross-section AWG      | 24 ... 14  |
| Tightening torque                | 0.5 Nm ... 0.6 Nm<br>5 lb <sub>f</sub> -in. ... 7 lb <sub>f</sub> -in. |

### Load circuit

|                                  |  |
|----------------------------------|--|
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## Signaling

|                           |              |
|---------------------------|--------------|
| Status display            | LED (yellow) |
| Operating voltage display | Green LED    |
| Error indication          | Red LED      |

## Dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 107 mm  |
| Depth  | 114 mm  |

## Material specifications

|  |              |
|--|--------------|
| Flammability rating according to UL 94 (Housing) | V0 (Housing) |
|--|--------------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                    |
|---------------------------------|------------------------------------|
| Degree of protection            | IP20                               |
| Ambient temperature (operation) | -5 °C ... 60 °C (observe derating) |

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|   |                  |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude                                | ≤ 2000 m         |

## Approvals

### UL approval

|             |              |
|-------------|--------------|
| Certificate | NLDX.E228652 |
|             | NRNT.E172140 |

### UL data

|                    |   |
|--------------------|---|
| SCCR               | 100 kA (480 V AC (fuse: 30 A class CC/30 A class J (high fault)))                 |
|                    | 5 kA (480 V AC (fuse: 20 A RK5 (standard fault)))                                 |
| FLA                | 0.6 A (480 V AC)  |
| Group installation | 20 A (class RK5, SCCR 5kA (480 V AC), #24 - 14 AWG max. solid and stranded)       |
|                    | 30 A (class CC or J, SCCR 100kA (480 V AC), #24 - 14 AWG max. solid and stranded) |
| Category code      | NLDX / NRNT   |

## Standards and regulations

### Standards/regulations

|                       |              |
|-----------------------|--------------|
| Standards/regulations | IEC 60947-1  |
|                       | EN 60947-4-2 |

## Mounting

|                   |  |
|-------------------|--|
| Mounting type     | DIN rail mounting                                  |
| Assembly note     | alignable, for spacing see derating                |
| Mounting position | vertical (horizontal DIN rail, motor output below) |

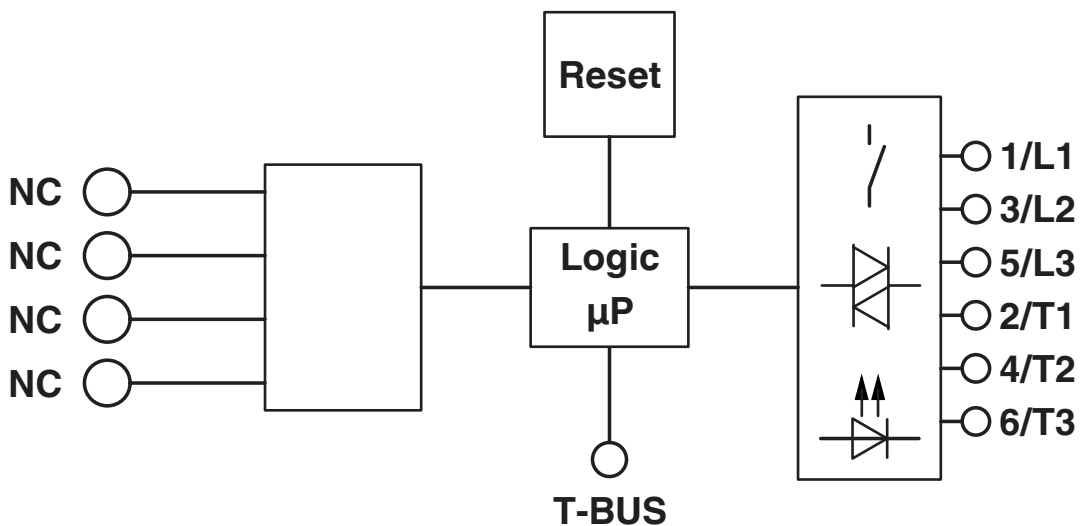
Drawings

Diagram



Derating diagram

Block diagram



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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 25173900 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |              |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 7(a), 7(c)-I |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                      |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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