

Hybrid motor starter - ELR H3-ES-SC- 24DC/500AC-0,6 - 2900550

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Hybrid motor starter for starting 3~ AC motors up to 550 V AC, with 24 V DC input, 0.6 A output current, and emergency stop function.

The figure shows the 9 A version

Your advantages

- ✓ 22.5 mm wide
- ✓ Low-wear switching
- ✓ Safety level according to IEC 61508-1: SIL 3, ISO 13849: PL e
- ✓ Space saving
- ✓ Long service life
- ✓ Reduction in wiring up to 9 A
- ✓ 3-phase loop bridges



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 527729
GTIN	4046356527729

Technical data

Dimensions

Width	22.5 mm
Height	106.6 mm
Depth	113.7 mm

Ambient conditions

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

General

Hybrid motor starter - ELR H3-ES-SC- 24DC/500AC-0,6 - 2900550

Technical data

General

Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with spacing = 20 mm
Operating mode	100% operating factor
Maximum power dissipation	2.5 W
Minimum power dissipation	0.88 W

Connection data, input side

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

Connection data, output side

Connection name	Load circuit
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

Standards/regulations

Designation	Standards/regulations
Standards/regulations	DIN EN 50178
	EN 60947

Approvals/conformities

Safety Integrity Level according to IEC 61508	≤ 3 (Safe shutdown)
Category acc. to EN ISO 13849	≤ 3 (Safe shutdown)
Performance level according to ISO 13849	e (Safe shutdown)

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)

Standards and Regulations

Designation	Standards/regulations
Standards/regulations	DIN EN 50178
	EN 60947
Designation	Power station requirements

Hybrid motor starter - ELR H3-ES-SC- 24DC/500AC-0,6 - 2900550

Technical data

Standards and Regulations

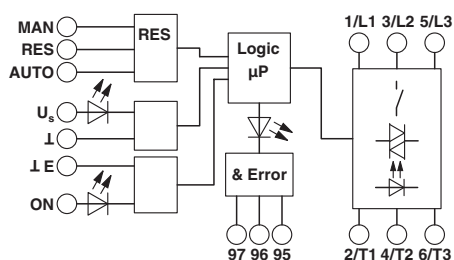
Standards/regulations	DWR 1300 / ZXX01/DD/7080.8d
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	500 V
Rated surge voltage	6 kV
Insulation	safe isolation
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

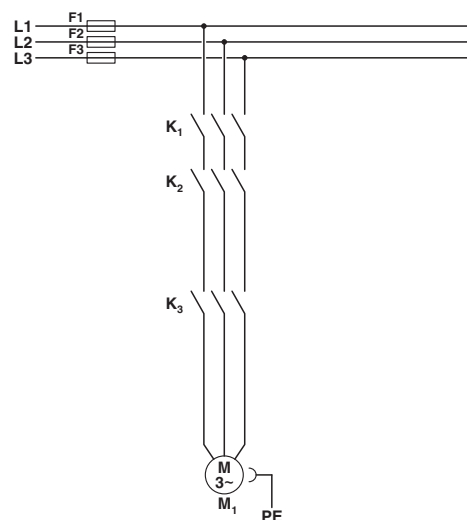
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Block diagram



Circuit diagram



Conventional structure

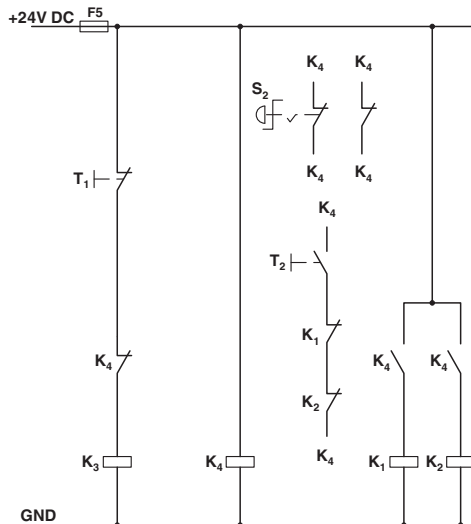
Main current path for contactor according to category 3

K1 + K2 = Emergency stop contactor

K3 = Right contactor

Hybrid motor starter - ELR H3-ES-SC- 24DC/500AC-0,6 - 2900550

Circuit diagram

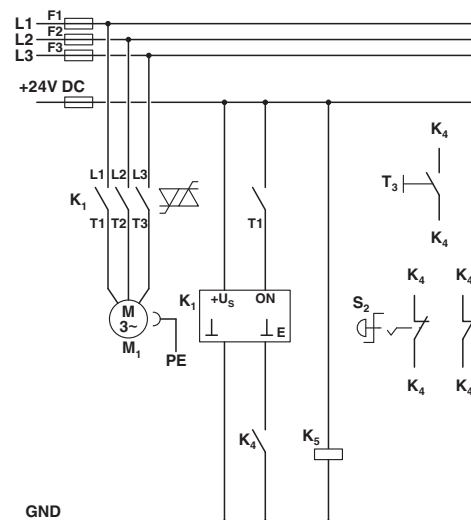


Conventional structure

Control current path for contactor according to category 3

K1 + K2 = Emergency stop contactor
K3 = Right contactor
K4 = PSR SCP-24DC.../safety relay
T1 = Right, T3 = Reset
S2 = Emergency stop

Circuit diagram



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
K4 = PSR SCP-24DC.../safety relay
T1 = Right, T3 = Reset
S2 = Emergency stop

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[2900550](#)