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Hybrid motor starter for reversing 3~ AC motors up to 550 V AC, with 24 V DC input, 9 A output current, adjustable overload shutdown, and with no underload detection.

The figure shows the ELR H5-I-SC-24DC/500AC-9 version

Product Features

- 22.5 mm wide
- Space saving
- Long service life
- Reduction in wiring
- Bimetal function can be set up to 9 A
- 3-phase loop bridges



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	300.0 g
Custom tariff number	85371099
Country of origin	Germany

Technical data

Input data

Input name	Device supply
Rated control circuit supply voltage Us	24 V DC
Control supply voltage range	19.2 V DC 30 V DC
Rated control supply current Is	40 mA
Protective circuit	Reverse polarity protection Parallel polarity protection diode
	Surge protection
Operating voltage display	Green LED

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Technical data

Input data

Status display	Yellow LED
Indication	Red LED
Input name	Control input right/left
Rated actuating voltage U _c	24 V DC
Rated actuating current I _c	5 mA
Switching threshold	9.6 V ("0" signal)
	19.2 V ("1" signal)
Protective circuit	Reverse polarity protection
Typical turn-off time	< 30 ms

Ambient conditions

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

Output data

Output name	AC output
Rated operating current at AC-51	9 A
Rated operating current at AC-53a	6.5 A
Leakage current	0 mA
Type of protection	Surge protection
Protective circuit/component	Varistor
Output name	Acknowledge output
Note	Confirmation: floating change-over contact, signal contact

Connection data, control circuit

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
Torque	0.5 Nm 0.6 Nm

General

Switching frequency	≤ 2 Hz (Load-dependent)
Mounting position	vertical (horizontal DIN rail, motor output below)
Assembly instructions	alignable, for spacing see derating



Technical data

General

Operating mode	100% operating factor
Designation	Standards/regulations
Standards/regulations	IEC 60947-1
	EN 60947-4-2
	IEC 61508
	ISO 13849

Standards and Regulations

Designation	Standards/regulations
Standards/regulations	IEC 60947-1
	EN 60947-4-2
	IEC 61508
	ISO 13849

Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371601
eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27370905
eCl@ss 9.0	27370905

ETIM

ETIM 4.0	EC000066
ETIM 5.0	EC002055

UNSPSC

UNSPSC 6.01	30211915
UNSPSC 7.0901	39121514
UNSPSC 11	39121514
UNSPSC 12.01	39121514
UNSPSC 13.2	39121514



Approvals
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UL Listed / cUL Listed / UL Listed / cUL Listed / EAC / cULus Listed
Ex Approvals
Approvals submitted
Approval details
UL Listed
cUL Listed
UL Listed
cUL Listed
EAC
cULus Listed

Drawings





Circuit diagram



Conventional structure Main current path contactor K1 = Left contactor K2 = Right contactor F4 = Motor protection relay

Circuit diagram



Conventional structure Control current path contactor K1 = Left contactor



Structure with CONTACTRON Main and control current path for '3 in 1' hybrid motor starter K1 = '3 in 1' hybrid motor starter



K2 = Right contactor T1 = Left, T2 = Right F4 = Motor protection relay

T1 = Right, T2 = Left

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