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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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ELR H5-IES-SC- 24DC/500AC-9

Order No.: 2900421



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



Commercial data	
GTIN (EAN)	4 046356 504676
sales group	G421
Pack	1 pcs.
Customs tariff	85364900
Catalog page information	Page 231 (NTK-2010)



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



http://

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Technical data

Input data

Rated control supply voltage U _S	24 V DC
Rated control supply voltage range with reference to $\ensuremath{U_{\text{S}}}$	0.8 1.25
Rated control supply current I _s	40 mA

Rated actuating voltage $U_{\scriptscriptstyle \mathbb{C}}$	24 V DC
Rated actuating voltage range with reference to $U_{\scriptscriptstyle \mathbb{C}}$	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
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 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.14 mm²
Conductor cross section stranded max.	2.5 mm ²

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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
Test voltage input/output	4 kV _{rms}
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
Safety integrity level according to IEC 61508-1	SIL 3 (safe shutdown)
	SIL 2 (motor protection)
Category as per ISO 13849-1	3
Performance Level as per ISO 13849-1	е
Category in acc. with EN 954-1	3

Certificates / Approvals







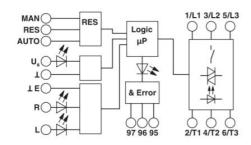
Certification

CB, CUL Listed, UL Listed

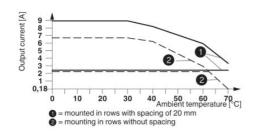
Certification Ex: PTB

Diagrams/Drawings

Block diagram

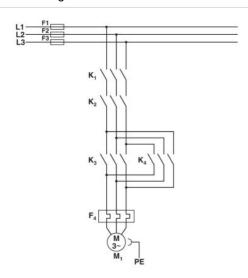


Diagram



Derating curve ELR H5-IES-SC- 24DC/500AC-2 and ELR H5-IES-SC- 24DC/500AC-9

Circuit diagram



Conventional structure

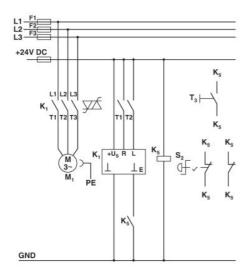
Main current path for reversing contactor according to category 3

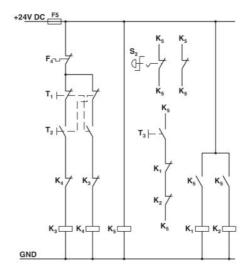
K1 + K2 = Emergency stop contactor

K3 = Left contactor

K4 = Right contactor

F4 = Motor protection relay





Conventional structure

Control current path for reversing contactor according to category 3

K1 + K2 = Emergency stop contactor

K3 = Left contactor

K4 = Right contactor

K5 = PSR SCP-24DC.../safety relay

T1 = Left, T2 = Right, T3 = Reset

S2 = Emergency stop

F4 = Motor protection relay

Structure with CONTACTRON

Main and control current path for "4 in 1" hybrid motor starter with reversing function according to category 3

K1 = "4 in 1" hybrid motor starter with reversing function

K5 = PSR SCP-24DC.../safety relay

T1 = Left, T2 = Right, T3 = Reset

S2 = Emergency stop

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