

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ELR H5-ES-SC-230AC/500AC-0,6

Order No.: 2900688

The figure shows the 9 A version



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"3 in 1" hybrid motor starter for reversing 3~ AC motors up to 550 V AC, with 230 V AC input, 0.6 A output current, and emergency stop function.



Commercial data		
GTIN (EAN)	4 046356 527804	
sales group	G420	
Pack	1 pcs.	
Customs tariff	85364900	



Product notes WEEE/RoHS-compliant since: 03/01/2010



http://

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Technical data

Input data

Mains frequency	40 Hz
	100 Hz
Rated control supply voltage U _s	230 V AC

Rated control supply voltage range with reference to $\boldsymbol{U}_{\text{S}}$	0.4 1.1
Rated control supply current I _s	3.5 mA
Rated actuating voltage U _c	230 V AC
Rated actuating voltage range with reference to $\ensuremath{\text{U}_\text{c}}$	0.4 1.1
Rated actuating current I _c	7 mA
Switching threshold "0" signal, voltage	44 V AC
Switching threshold "1" signal voltage	85 V AC
Protective circuit	Surge protection
Typical response time	< 35 ms
Typical turn-off time	< 80 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	48 V AC 550 V AC
Load current	max. 600 mA (see derating curve)
Leakage current	0 mA
Residual voltage	< 0.3 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 mm ²

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Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12

General data

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	4 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)
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





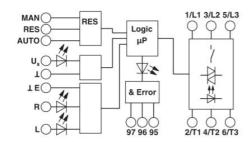


Certification CB, CUL Listed, UL Listed

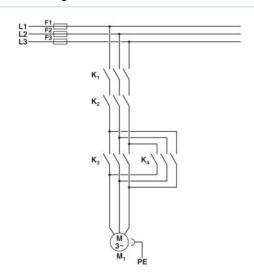
Certification Ex: PTB

Diagrams/Drawings

Block diagram



Circuit diagram



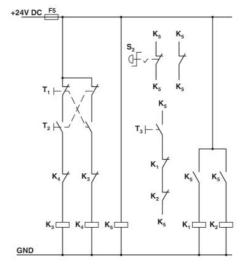
Conventional structure

Main current path for contactor according to category 3

K1 + K2 = Emergency stop contactor

K3 = Left contactor

K4 = Right contactor



Conventional structure

Control current path for contactor according to category 3

K1 + K2 = Emergency stop contactor

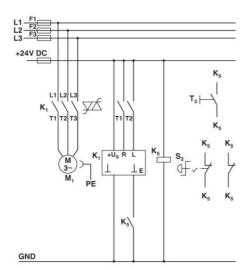
K3 = Left contactor

K4 = Right contactor

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

T1 = Left, T2 = Right, T3 = Reset

S2 = Emergency stop



Structure with CONTACTRON

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

K1 = "3 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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