

Hybrid motor starter - ELR H5-IES-SC-SWD/500AC-2 - 2903117

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 reversing 3~ AC motors up to 550 V AC, 2.4 A output current, adjustable overload shutdown and safe emergency stop up to PLe/SIL 3 and SmartWire-DT™ adapter as a set.



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 712811
Weight per Piece (excluding packing)	276.9 g
Custom tariff number	85371099
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Input data

Input name	Device supply
Rated control supply voltage U_s	24 V DC
Voltage range with reference to U_s	0.8 ... 1.25
Rated control supply current I_s	40 mA
Rated actuating voltage U_c	24 V DC
Voltage range with reference to U_c	0.8 ... 1.25
Rated actuating current I_c	5 mA
Protective circuit	Protection against polarity reversal Parallel polarity protection diode
	Surge protection
Operating voltage display	Green LED
Status display	Yellow LED
Indication	Red LED
Input name	Control input right/left
Switching level "safe off"	< 5 V DC
Typical turn-off time	< 30 ms

Hybrid motor starter - ELR H5-IES-SC-SWD/500AC-2 - 2903117

Technical data

Output data load output

Rated operating voltage U_e	500 V AC
Operating voltage range	42 V AC ... 550 V AC
Load current range	180 mA ... 2.4 A (see to derating)
Trigger characteristic in acc. with IEC 60947	Class 10A
Leakage current	0 mA
Residual voltage	< 0.3 V
Protective circuit	Surge protection

Output data reply output

Note	Confirmation 01: Floating PDT contact
------	---------------------------------------

Measuring technology and signaling contact

Measuring via	Current transformer for line current on L1 and L3
---------------	---

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Screw thread	M3

Connection data load circuit

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Screw thread	M3

General

Test voltage input/output	4 kV _{rms}
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with spacing = 20 mm
Operating mode	100% operating factor
Designation	Standards/regulations
Standards/regulations	DIN EN 50178

Hybrid motor starter - ELR H5-IES-SC-SWD/500AC-2 - 2903117

Technical data

General

	EN 60947
Designation	Power station requirements
Standards/regulations	DWR 1300 / ZXX01/DD/7080.8d
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Insulation	safe isolation
Pollution degree	2
Surge voltage category	III
Safety Integrity Level according to IEC 61508	SIL 3 (safe shutdown)
	SIL 2 (motor protection)
Category acc. to EN ISO 13849	3 (Safe shutdown)
Performance level according to ISO 13849	e (Safe shutdown)
Reversing frequency	≤ 2 Hz

Dimensions

Width	22.5 mm
Height	165 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-5 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Degree of protection	IP20

UL data

Short-circuit current rating (SCCR)	100 kA (500 V AC (30 A CC/30 A J (high fault) fuse))
	5 kA (500 V AC (20 A RK5 (standard fault) fuse))
Full load current FLA	2.4 A (480 V)

Classifications

eCl@ss

eCl@ss 4.0	27142001
eCl@ss 4.1	27142001
eCl@ss 5.0	27142001
eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27370905

ETIM

ETIM 3.0	EC000035
----------	----------

Hybrid motor starter - ELR H5-IES-SC-SWD/500AC-2 - 2903117

Classifications

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

Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

Approval details

EAC

Accessories

Accessories

Assembly tool

Tool - SWD4-CRP-1 PXC - 2903110



SmartWire DT™ pliers for device plugs

Mounting material

Hybrid motor starter - ELR H5-IES-SC-SWD/500AC-2 - 2903117

Accessories

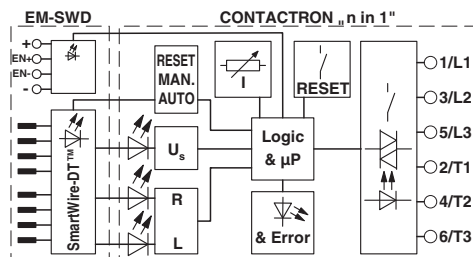
Plug - SWD4-8SF2-5 PXC - 2903107



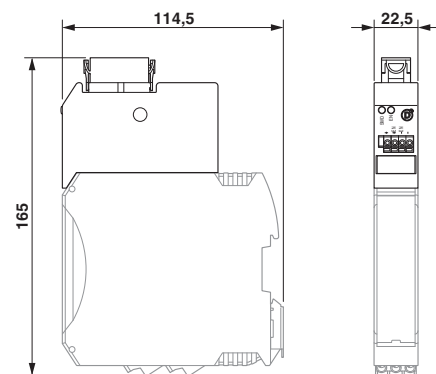
SmartWire DT™ device plug, 8-pos.

Drawings

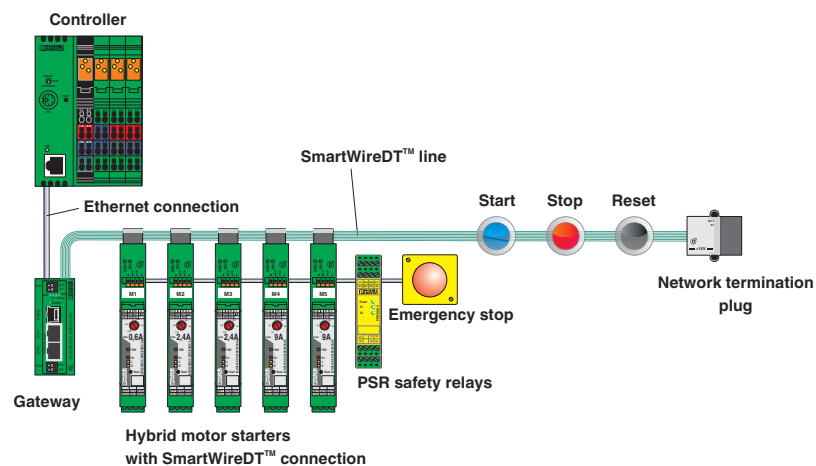
Block diagram



Dimensional drawing

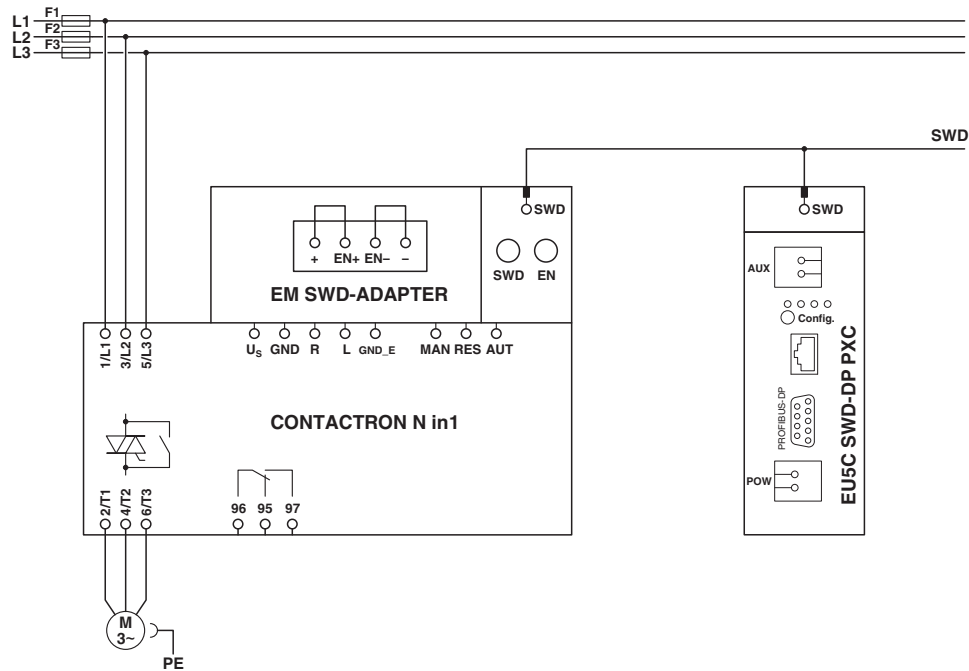


Application drawing



Hybrid motor starter - ELR H5-IES-SC-SWD/500AC-2 - 2903117

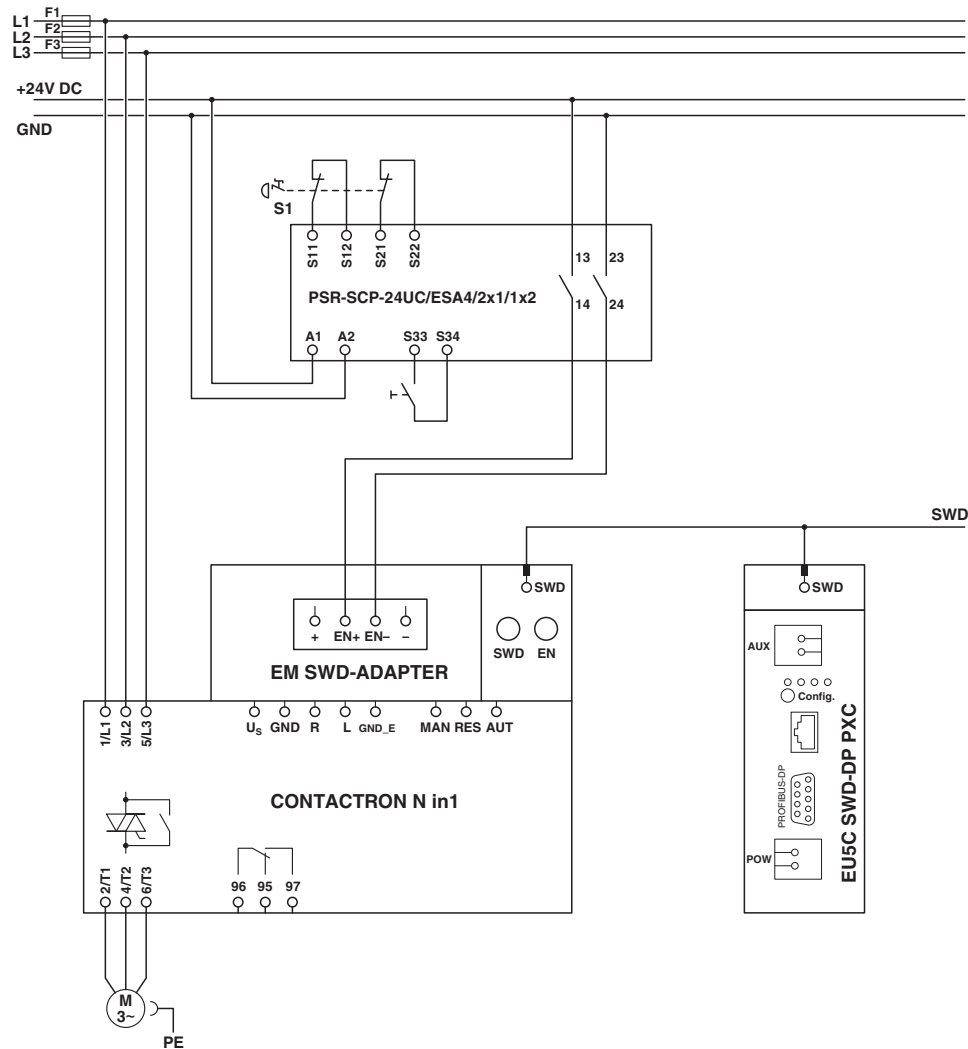
Circuit diagram



Wiring example without EMERGENCY STOP

Hybrid motor starter - ELR H5-IES-SC-SWD/500AC-2 - 2903117

Circuit diagram



EMERGENCY STOP wiring example (two-channel)