

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)



The figure shows version: ELR

Three-phase solid-state contactor with 24 V DC input, 37 A output current, zero voltage switch, optionally with thermal fuse

Product Features

3-230AC/500AC-16

- Optional thermal fuse
- ✓ Noise and wear-free switching
- High switching frequency
- ☑ Integrated protection circuit





Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	1820.0 GRM
Custom tariff number	85364900
Country of origin	Germany

Technical data

Dimensions

Width	147.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °C 70 °C
Ambient temperature (storage/transport)	-25 °C 70 °C



Technical data

Ambient conditions

Degree of protection	IP20
nnut data	

Input data

Input name	Device supply
Rated actuating voltage U _C	24 V DC
Voltage range with reference to U _C	0.8 1.25
Rated actuating current I _C	8.3 mA
Switching threshold "0" signal, voltage	9.6 V
Switching threshold "1" signal voltage	19.2 V
Protective circuit	Protection against polarity reversal Suppressor diode
	Surge protection
Status display	Yellow LED
Indication	Red LED

Output data

Output name	AC output
Nominal output voltage	500 V AC
Nominal output voltage range	48 V AC 575 V AC
Periodic peak reverse voltage	1200 V
Mains frequency	50 Hz
	60 Hz
Load current	≤ 37 A (see derating curve)
Rated operating current at AC-51	37 A
Rated operating current at AC-53a	25 A
Leakage current	6 mA
Residual voltage	< 1.5 V
Surge current	1300 A (t = 10 ms)
Max. load value	9000 A ² s
Type of protection	RCV circuit
Surge voltage protection	> 575 V AC

General

Test voltage input/output	5 kV _{rms}
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with spacing = 40 mm
Operating mode	100% operating factor
Designation	Standards/regulations
Standards/regulations	DIN EN 50178
	EN 60947



Technical data

General

Designation	Power station requirements
Standards/regulations	DWR 1300 / ZXX01/DD/7080.8d
Designation	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated surge voltage / insulation	6 kV / Basic isolation
Rated insulation voltage	500 V
Pollution degree	2
Surge voltage category	III

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	27371601

ETIM

ETIM 2.0	EC000066
ETIM 3.0	EC000066
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

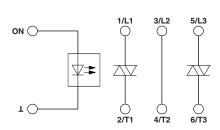
Approvals
UL Listed / cUL Listed / GL / UL Listed / cUL Listed / cUL Listed / cULus Listed / cULus Listed / cULus Listed / null / null / null / null / null
Ex Approvals
Approvals submitted
Approval details
UL Listed (II)
cUL Listed • • • • • • • • • • • • • • • • • • •
GL
UL Listed (IL)
cUL Listed • • • • • • • • • • • • • • • • • • •
cUL Listed • O
cULus Listed (U)



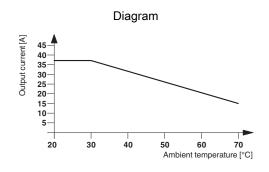
Approvals

cULus Listed • Wus		
cULus Listed		
r. (li) us		

Drawings



Block diagram



Phoenix Contact 2014 © - all rights reserved http://www.phoenixcontact.com