

Solid-state contactor - ELR 1-230AC/600AC-20 - 2297141

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>)



Single-phase solid-state contactor, input voltage: 230 V AC, output current: 20 A, zero voltage switch

Product Features

- ✓ Wear and bounce-free
- ✓ High switching frequency
- ✓ 24 V DC and 230 V AC input voltage versions



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	259.6 GRM
Custom tariff number	85362010
Country of origin	Malta

Technical data

Dimensions

Width	22.5 mm
Height	103 mm
Depth	103 mm

Ambient conditions

Ambient temperature (operation)	-30 °C ... 70 °C
Ambient temperature (storage/transport)	-30 °C ... 70 °C

Input data

Input name	Device supply
Input voltage range	24 V AC ... 275 V AC
Typical input current at U_N	approx. 17 mA

Solid-state contactor - ELR 1-230AC/600AC-20 - 2297141

Technical data

Input data

Switching threshold "0" signal, voltage	≤ 6 V AC
Switching threshold "1" signal voltage	≥ 22 V AC
Transmission frequency	6 Hz
Operating voltage display	Green LED

Output data

Nominal output voltage range	42 V AC ... 660 V AC (45/65 Hz)
Periodic peak reverse voltage	1200 V
Mains frequency	45 Hz
	65 Hz
Load current	20 A (see derating curve)
Rated operating current at AC-51	20 A
Rated operating current at AC-53a	5 A
Leakage current	< 3 mA (In off state)
Residual voltage	< 1.6 V
Surge current	250 A (t = 10 ms)
Max. load value	525 A ² s
Type of protection	RCV circuit
Protective circuit/component	RCV circuit

General

Test voltage input/output	4 kV _{rms}
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with ≥ 22.5 mm spacing
Designation	Air and creepage distances between the power circuits
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 55011
	Basic insulation
Rated surge voltage / insulation	Basic insulation

Classifications

eCl@ss

eCl@ss 4.0	27371102
------------	----------

Solid-state contactor - ELR 1-230AC/600AC-20 - 2297141

Classifications

eCl@ss

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

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized 

Solid-state contactor - ELR 1-230AC/600AC-20 - 2297141

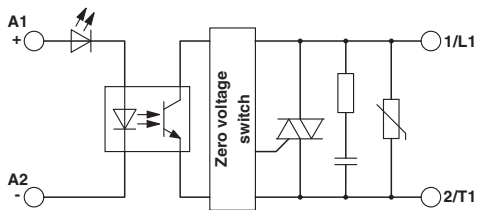
Approvals

cUL Recognized

cULus Recognized

Drawings

Block diagram



Diagram

