



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Type 2 surge protection device - SYS-SET/3+1/T2/690 - 2880367

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>)



Surge protection combination type 2 for 500 V AC and 690 V AC in an IT system (without neutral conductor)



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	576.4 GRM
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### Dimensions

Height	96.8 mm
Width	70.8 mm
Depth	65.5 mm
Horizontal pitch	4 Div.

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

#### General

IEC power supply system	IT
Housing material	PA
Inflammability class according to UL 94	V0
Standards for air and creepage distances	IEC 60664-1
	DIN VDE 0110-1
Surge voltage category	III
Pollution degree	2

## Type 2 surge protection device - SYS-SET/3+1/T2/690 - 2880367

### Technical data

#### General

Total surge current (8/20) $\mu$ s	15 kA
Mounting type	DIN rail: 35 mm
Type	DIN rail module, two-section, divisible
Surge protection fault message	Optical, remote indicator contact
Direction of action	3L-PE

#### Protective circuit

IEC test classification	II
EN type	T2
Nominal voltage $U_N$	690 V AC
Maximum continuous operating voltage $U_C$ (L-PE)	750 V AC
Nominal frequency $f_N$	50 Hz (60 Hz)
Residual current $I_{PE}$	$\leq 0.25$ mA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (L-PE)	30 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-PE)	15 kA
Voltage protection level $U_p$ (L-PE)	$\leq 5.6$ kV
Residual voltage (L-PE)	$\leq 5.6$ kV
	$\leq 5.6$ kV (at 5 kA)
Response time (L-PEN)	$\leq 25$ ns
Max. backup fuse with branch wiring	125 A (gL)
Short-circuit resistance $I_p$ with max. backup fuse (effective)	25 kA (effective)

#### Connection, protective circuit

Connection method	Screw terminal block
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	14.5 mm
Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	25 mm <sup>2</sup>
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	35 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	2

#### Remote indicator contact

## Type 2 surge protection device - SYS-SET/3+1/T2/690 - 2880367

### Technical data

#### Remote indicator contact

Connection name	Remote fault indicator contact
Switching function	PDT contact
Connection method	Screw connection
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section stranded min.	1.5 mm <sup>2</sup>
Conductor cross section stranded max.	0.14 mm <sup>2</sup>
Conductor cross section solid min.	1.5 mm <sup>2</sup>
Conductor cross section solid max.	0.14 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	16
Maximum operating voltage U <sub>max</sub> AC	250 V AC
Maximum operating voltage U <sub>max</sub> DC	125 V DC
Max. operating current I <sub>max</sub>	1 A AC (inductive)
	1 A AC (ohmic)
	30 mA DC (inductive)
	200 mA DC (ohmic)

#### Standards and Regulations

Standards/regulations	IEC 61643-1
	EN 61643-11

### Classifications

#### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140201
eCl@ss 5.0	27140201
eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201

#### ETIM

ETIM 2.0	EC001457
ETIM 3.0	EC001457
ETIM 4.0	EC001457
ETIM 5.0	EC001457



## Type 2 surge protection device - SYS-SET/3+1/T2/690 - 2880367

### Classifications

#### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

### Approvals

#### Approvals

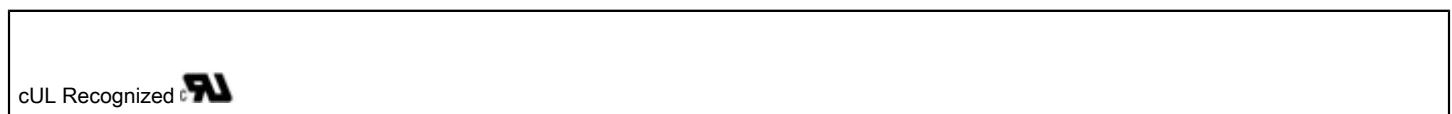
##### Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

##### Ex Approvals

##### Approvals submitted

#### Approval details



### Drawings

## Type 2 surge protection device - SYS-SET/3+1/T2/690 - 2880367

Dimensioned drawing

