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## Type 3 surge protection device - PT 2-IT-230AC/FM - 2805130

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Surge protection type 3, as device protection for termination devices in IT systems, error indication and remote indicator contact. Design: 230 V AC

### Product Features

- ✓ Plugs can be checked with CHECKMASTER
- ✓ Tool-free plug replacement
- ✓ With floating remote indication contact
- ✓ Optical signaling of disconnection via LED
- ✓ For single and multi-phase power supply units
- ✓ Consists of base element and plug
- ✓ DIN rail module



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	80.0 GRM
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### Dimensions

Height	90 mm
Width	17.7 mm
Depth	65.5 mm
Horizontal pitch	1 Div.
Complete module height	90 mm
Complete module width	17.7 mm

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## Technical data

### Dimensions

Complete module depth	65.5 mm
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### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C

### General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	IEC 60664-1
	IEC 61643-1
	DIN EN 61643-11/A11
Type	DIN rail module, two-section, divisible
Mounting type	DIN rail: 35 mm
Number of positions	2
Direction of action	1L-N & N-PE

### Protective circuit

IEC test classification	III
	T3
EN type	T3
Nominal voltage $U_N$	230 V AC
Arrester rated voltage $U_C$	275 V AC
Arrester rated voltage $U_C$ (L-N)	275 V AC
Arrester rated voltage $U_C$ (L-PE)	275 V AC
Arrester rated voltage $U_C$ (N-PE)	275 V AC
Nominal frequency $f_N$	50 Hz
	60 Hz
Nominal current $I_N$	26 A (30 °C)
Residual current $I_{PE}$	$\leq 1 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$	3 kA
	3 kA (in acc. with UL 1449)
Nominal discharge current $I_n$ (8/20) $\mu s$ (L-N)	3 kA
Nominal discharge current $I_n$ (8/20) $\mu s$ (L-PE)	3 kA
Max. discharge current $I_{max}$ (8/20) $\mu s$	8 kA
Combined surge $U_{OC}$	6 kV
Energy absorption symmetrical	170 J (L-N)

## Type 3 surge protection device - PT 2-IT-230AC/FM - 2805130

### Technical data

#### Protective circuit

Energy absorption, asymmetrical	225 J (L/N-PE)
Voltage protection level $U_p$ (L-N)	$\leq 1.2$ kV
Voltage protection level $U_p$ (L-PE)	$\leq 1.5$ kV
Voltage protection level $U_p$ (N-PE)	$\leq 1.5$ kV
Response time $t_A$ (L-N)	$\leq 25$ ns
Response time $t_A$ (L-PE)	$\leq 100$ ns
Response time $t_A$ (N-PE)	$\leq 100$ ns
Max. required back-up fuse	25 A (gL/C)
Surge protection fault message	Optical, remote indicator contact

#### Non-heating apparatus connection, power supply

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

#### Remote indicator contact

Connection name	Remote fault indicator contact
Switching function	N/C contact
Connection method	Screw connection
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Maximum operating voltage $U_{max}$ AC	250 V



# Type 3 surge protection device - PT 2-IT-230AC/FM - 2805130

## Technical data

### Remote indicator contact

Maximum operating voltage $U_{max}$ DC	50 V
Max. operating current $I_{max}$	3 A AC/DC

### Standards and Regulations

Standards/specifications	IEC 61643-1 2005
	EN 61643-11/A11 2007

## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130806
eCl@ss 7.0	27130806
eCl@ss 8.0	27130806

### ETIM

ETIM 2.0	EC000942
ETIM 3.0	EC000942
ETIM 4.0	EC000942
ETIM 5.0	EC000942

### UNSPSC

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

## Approvals

### Approvals

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### Approvals

UL Recognized / cUL Recognized / cULus Recognized

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# Type 3 surge protection device - PT 2-IT-230AC/FM - 2805130

## Approvals

Ex Approvals

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Approvals submitted

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## Approval details

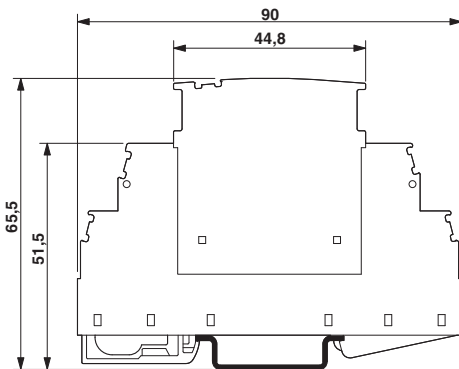
UL Recognized

cUL Recognized

cULus Recognized

## Drawings

Dimensioned drawing



Circuit diagram

