

**SURGE PROTECTION
EL-SPD [TYPE 2]**

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CROSS REFERENCE LIST TO SELECT THE APPROPRIATE PRODUCTS

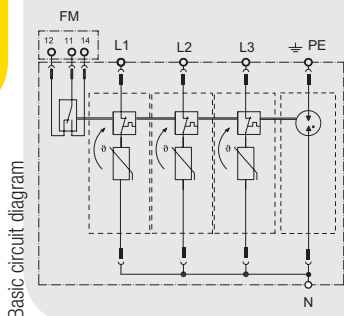
This cross reference helps to find the new, appropriate products on the basis of the previous product names.

Previous product name/number		New product name/number	
38 12 45	EP C ST 130	38 81 92	EL-T2/1+0-130
38 12 50	EP C ST 130/FM	38 81 85	EL-T2/1+0-130-FM
38 12 60	EP C ST 75	38 81 91	EL-T2/1+0-75
38 12 70	EP C ST 275	38 81 93	EL-T2/1+0-275
38 12 75	EP C ST 275/FM	38 81 86	EL-T2/1+0-275-FM
38 13 00	EP C ST 440	38 81 95	EL-T2/1+0-440
38 13 05	EP C ST 440/FM	38 81 88	EL-T2/1+0-440-FM
38 13 10	EP C ST 550	38 81 96	EL-T2/1+0-550
38 13 15	EP C ST 550/FM	38 81 89	EL-T2/1+0-550-FM
38 57 20	EP C ST 350	38 81 94	EL-T2/1+0-350
38 57 30	EP C ST 350/FM	38 81 87	EL-T2/1+0-350-FM
38 10 24	EP C ST T1+1 275	38 81 79	EL-T2/1+1-275
38 10 25	EP C ST T1+1 275/FM	38 81 72	EL-T2/1+1-275-FM
38 10 30	EP C STNC 275	38 81 37	EL-T2/3+0-275
38 10 35	EP C STNC 275/FM	38 81 30	EL-T2/3+0-275-FM
38 10 40	EP C ST T 275	38 81 23	EL-T2/3+1-275
38 10 45	EP C ST T 275/FM	38 81 16	EL-T2/3+1-275-FM
38 10 50	EP C STNS 275	38 81 09	EL-T2/4+0-275
38 10 55	EP C STNS 275/FM	38 81 02	EL-T2/4+0-275-FM
38 12 40	EP C STN 275	38 81 65	EL-T2/2+0-275
38 12 41	EP C STN 275/FM	38 81 58	EL-T2/2+0-275-FM
38 12 65	EP C ST 75/FM	38 81 84	EL-T2/1+0-75-FM
38 56 20	EP C STN 350	38 81 66	EL-T2/2+0-350
38 56 30	EP C STN 350/FM	38 81 59	EL-T2/2+0-350-FM
38 56 40	EP C STNC 350	38 81 38	EL-T2/3+0-350
38 56 50	EP C STNC 350/FM	38 81 31	EL-T2/3+0-350-FM
38 56 60	EP C STNS 350	38 81 10	EL-T2/4+0-350
38 56 70	EP C STNS 350/FM	38 81 03	EL-T2/4+0-350-FM
38 56 80	EP C ST T1+1 350	38 81 80	EL-T2/1+1-350
38 56 90	EP C ST T1+1 350/FM	38 81 73	EL-T2/1+1-350-FM
38 57 00	EP C ST T 350	38 81 24	EL-T2/3+1-350
38 57 10	EP C ST T 350/FM	38 81 17	EL-T2/3+1-350-FM

Surge Arrester Type 2, class II, pluggable

EL-T2/3+1

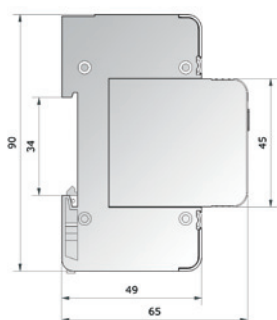
Fully pluggable surge protective arrester for the use in three-phase TT and TNS systems.



- Test standard: IEC 61643-1 / EN 61643-11
- Mounting on 35 mm DIN rail
- Optional remote changeover contact

Technical Data	EL-T2/3+1-130	EL-T2/3+1-130-FM	EL-T2/3+1-275	EL-T2/3+1-275-FM
IEC category/EN type	Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage	UN 120 V~	120 V~	230 V~	230 V~
Max. continuous operating voltage AC	Uc 130 V~	130 V~	275 V~	275 V~
Nominal discharge current (8/20)	In 15 kA	15 kA	20 kA	20 kA
Max. impulse discharge current (8/20)	Imax 40 kA	40 kA	40 kA	40 kA
Protection level at In	Up ≤ 0,7 kV	≤ 0,7 kV	≤ 1,2 kV	≤ 1,2 kV
Protection level at 5kA	Up ≤ 0,5 kV	≤ 0,5 kV	≤ 0,9 kV	≤ 0,9 kV
Schutzpegel N-PE	Up ≤ 1,5 kV	≤ 1,5 kV	≤ 1,5 kV	≤ 1,5 kV
Folgestromlöschfähigkeit AC N-PE	ifi 100 Aeff	100 Aeff	100 Aeff	100 Aeff
Short-circuit withstand capability at max. back-up fuse	Ik 25 kAeff	25 kAeff	25 kAeff	25 kAeff
Max. allowed prefuse	125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range	TU -40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)	IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)	4 TE	4 TE	4 TE	4 TE

Order Data				
Article-No.	38 81 22	38 81 15	38 81 23	38 81 16



SURGE PROTECTION FOR POWER SUPPLY SYSTEMS

SURGE ARRESTER TYPE 2, CLASS II



Technical Data		EL-T2/3+1-350	EL-T2/3+1-350-FM	EL-T2/3+1-385	EL-T2/3+1-385-FM
IEC category/EN type		Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage	UN	230 V~	230 V~	230 V~	230/400 V~
Max. continuous operating voltage AC	Uc	350 V~	350 V~	385 V~	385 V~
Nominal discharge current (8/20)	In	20 kA	20 kA	20 kA	20 kA
Max. impulse discharge current (8/20)	I _{max}	40 kA	40 kA	40 kA	40 kA
Protection level at In	Up	≤ 1,5 kV	≤ 1,5 kV	≤ 2,0 kV	≤ 2,0 kV
Protection level at 5kA	Up	≤ 1,0 kV	≤ 1,0 kV	≤ 1,5 kV	≤ 1,5 kV
Schutzpegel N-PE	Up	≤ 1,5 kV	≤ 1,5 kV	≤ 1,5 kV	≤ 1,5 kV
Folgestromlöschfähigkeit AC N-PE	I _{fi}	100 Aeff	100 Aeff	100 Aeff	100 Aeff
Short-circuit withstand capability at max. back-up fuse	I _k	25 kAeff	25 kAeff	25 kAeff	25 kAeff
Max. allowed prefuse		125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range	TU	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals		1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals		35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour		Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)		IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)		4 TE	4 TE	4 TE	4 TE

Order Data				
Article-No.		38 81 24	38 81 17	38 80 52
				38 80 51

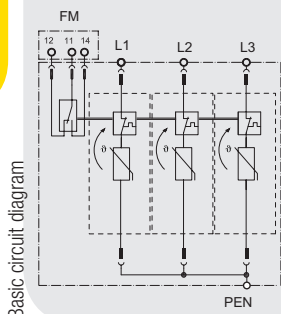
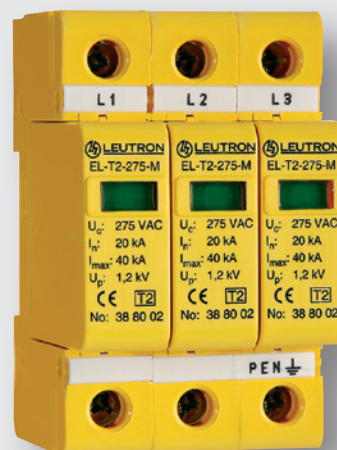
Technical Data		EL-T2/3+1-440	EL-T2/3+1-440-FM
IEC category/EN type		Type2 / class II	Type2 / class II
Nominal alternating voltage	UN	230 V~	230 V~
Max. continuous operating voltage AC	Uc	440 V~	440 V~
Nominal discharge current (8/20)	In	20 kA	20 kA
Max. impulse discharge current (8/20)	I _{max}	40 kA	40 kA
Protection level at In	Up	≤ 2,0 kV	≤ 2,0 kV
Protection level at 5kA	Up	≤ 1,5 kV	≤ 1,5 kV
Schutzpegel N-PE	Up	≤ 1,5 kV	≤ 1,5 kV
Folgestromlöschfähigkeit AC N-PE	I _{fi}	100 Aeff	100 Aeff
Short-circuit withstand capability at max. back-up fuse	I _k	25 kAeff	25 kAeff
Max. allowed prefuse		125 A gL/gG	125 A gL/gG
Operating temperature range	TU	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals		1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals		35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour		Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)		IP 20	IP 20
Dimension (DIN 43880)		4 TE	4 TE

Order Data		
Article-No.		38 81 25
		38 81 18

Surge Arrester Type 2, class II, pluggable

EL-T2/3+0

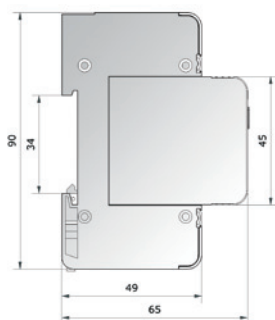
Fully pluggable surge protective arrester for the use in three-phase TNC systems.



- Test standard: IEC 61643-1 / EN 61643-11
- Mounting on 35 mm DIN rail
- Optional remote changeover contact

Technical Data	EL-T2/3+0-130	EL-T2/3+0-130-FM	EL-T2/3+0-275	EL-T2/3+0-275-FM
IEC category/EN type	Type 2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage	UN 120 V~	120 V~	230 V~	230 V~
Max. continuous operating voltage AC	Uc 130 V~	130 V~	275 V~	275 V~
Nominal discharge current (8/20)	In 15 kA	15 kA	20 kA	20 kA
Max. impulse discharge current (8/20)	Imax 40 kA	40 kA	40 kA	40 kA
Protection level at In	Up ≤ 0,7 kV	≤ 0,7 kV	≤ 1,2 kV	≤ 1,2 kV
Protection level at 5kA	Up ≤ 0,5 kV	≤ 0,5 kV	≤ 0,9 kV	≤ 0,9 kV
Short-circuit withstand capability at max. back-up fuse	Ik 25 kAeff	25 kAeff	25 kAeff	25 kAeff
Max. allowed prefuse	125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range	TU -40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)	IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)	3 TE	3 TE	3 TE	3 TE
Max. operating voltage remote contact		250 V AC/125 V DC		250 V AC/125 V DC
Max. operating current remote contact		1 A AC/200 mA DC		1 A AC/200 mA DC

Order Data				
Article-No.	38 81 36	38 81 29	38 81 37	38 81 30



SURGE PROTECTION FOR POWER SUPPLY SYSTEMS

SURGE ARRESTER TYPE 2, CLASS II



Technical Data		EL-T2/3+0-350	EL-T2/3+0-350-FM	EL-T2/3+0-385	EL-T2/3+0-385-FM
IEC category/EN type		Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage	UN	230 V~	230 V~	230 V~	230/400 V~
Max. continuous operating voltage AC	Uc	350 V~	350 V~	385 V~	385 V~
Nominal discharge current (8/20)	In	20 kA	20 kA	20 kA	20 kA
Max. impulse discharge current (8/20)	Imax	40 kA	40 kA	40 kA	40 kA
Protection level at In	Up	≤ 1,5 kV	≤ 1,5 kV	≤ 1,75 kV	≤ 1,75 kV
Protection level at 5kA	Up	≤ 1,0 kV	≤ 1,0 kV	≤ 1,35 kV	≤ 1,35 kV
Short-circuit withstand capability at max. back-up fuse	Ik	25 kAeff	25 kAeff	25 kAeff	25 kAeff
Max. allowed prefuse		125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range	TU	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals		1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals		35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour		Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)		IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)		3 TE	3 TE	3 TE	3 TE
Max. operating voltage remote contact			250 V AC/125 V DC		250 V AC/125 V DC
Max. operating current remote contact			1 A AC/200 mA DC		1 A AC/200 mA DC

Order Data				
Article-No.		38 81 38	38 81 31	38 80 53
				38 80 50

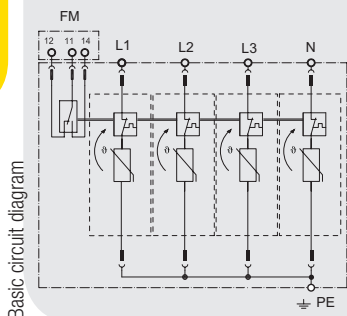
Technical Data		EL-T2/3+0-440	EL-T2/3+0-440-FM
IEC category/EN type		Type2 / class II	Type2 / class II
Nominal alternating voltage	UN	230 V~	230 V~
Max. continuous operating voltage AC	Uc	440 V~	440 V~
Nominal discharge current (8/20)	In	20 kA	20 kA
Max. impulse discharge current (8/20)	Imax	40 kA	40 kA
Protection level at In	Up	≤ 2,0 kV	≤ 2,0 kV
Protection level at 5kA	Up	≤ 1,5 kV	≤ 1,5 kV
Short-circuit withstand capability at max. back-up fuse	Ik	25 kAeff	25 kAeff
Max. allowed prefuse		125 A gL/gG	125 A gL/gG
Operating temperature range	TU	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals		1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals		35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour		Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)		IP 20	IP 20
Dimension (DIN 43880)		3 TE	3 TE
Max. operating voltage remote contact			250 V AC/125 V DC
Max. operating current remote contact			1 A AC/200 mA DC

Order Data		
Article-No.		38 81 39
		38 81 32

Surge Arrester Type 2, class II, pluggable

EL-T2/4+0

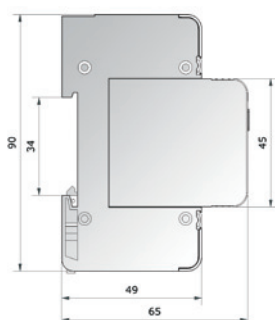
Fully pluggable surge protective arrester for the use in three-phase TNS systems.



- Test standard: IEC 61643-1 / EN 61643-11
- Mounting on 35 mm DIN rail
- Optional remote changeover contact

Technical Data	EL-T2/4+0-130	EL-T2/4+0-130-FM	EL-T2/4+0-275	EL-T2/4+0-275-FM
IEC category/EN type	Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage	UN 120 V~	120 V~	230 V~	230 V~
Max. continuous operating voltage AC	Uc 130 V~	130 V~	275 V~	275 V~
Nominal discharge current (8/20)	In 15 kA	15 kA	20 kA	20 kA
Max. impulse discharge current (8/20)	I _{max} 40 kA	40 kA	40 kA	40 kA
Protection level at In	Up ≤ 0,7 kV	≤ 0,7 kV	≤ 1,2 kV	≤ 1,2 kV
Protection level at 5kA	Up ≤ 0,5 kV	≤ 0,5 kV	≤ 0,9 kV	≤ 0,9 kV
Short-circuit withstand capability at max. back-up fuse	I _k 25 kAeff	25 kAeff	25 kAeff	25 kAeff
Max. allowed prefuse	125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range	TU -40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)	IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)	4 TE	4 TE	4 TE	4 TE
Max. operating voltage remote contact		250 V AC/125 V DC		250 V AC/125 V DC
Max. operating current remote contact		1 A AC/200 mA DC		1 A AC/200 mA DC

Order Data				
Article-No.	38 81 08	38 81 01	38 81 09	38 81 02



SURGE PROTECTION FOR POWER SUPPLY SYSTEMS

SURGE ARRESTER TYPE 2, CLASS II



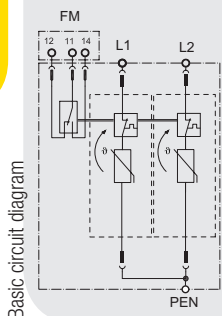
Technical Data		EL-T2/4+0-350	EL-T2/4+0-350-FM	EL-T2/4+0-440	EL-T2/4+0-440-FM
IEC category/EN type		Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage	UN	230 V~	230 V~	230 V~	230 V~
Max. continuous operating voltage AC	Uc	350 V~	350 V~	440 V~	440 V~
Nominal discharge current (8/20)	In	20 kA	20 kA	20 kA	20 kA
Max. impulse discharge current (8/20)	Imax	40 kA	40 kA	40 kA	40 kA
Protection level at In	Up	≤ 1,5 kV	≤ 1,5 kV	≤ 2,0 kV	≤ 2,0 kV
Protection level at 5kA	Up	≤ 1,0 kV	≤ 1,0 kV	≤ 1,5 kV	≤ 1,5 kV
Short-circuit withstand capability at max. back-up fuse	Ik	25 kAeff	25 kAeff	25 kAeff	25 kAeff
Max. allowed prefuse		125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range	TU	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals		1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals		35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour		Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)		IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)		4 TE	4 TE	4 TE	4 TE
Max. operating voltage remote contact			250 V AC/125 V DC		250 V AC/125 V DC
Max. operating current remote contact			1 A AC/200 mA DC		1 A AC/200 mA DC

Order Data					
Article-No.		38 81 10	38 81 03	38 81 11	38 81 04

Surge Arrester Type 2, class II, pluggable

EL-T2/2+0

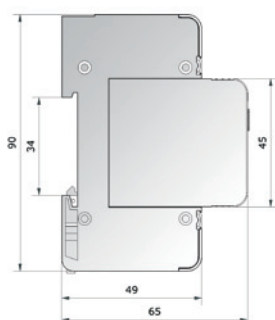
Fully pluggable surge protective arrester for the use in single-phase TN systems.



- Test standard: IEC 61643-1 / EN 61643-11
- Mounting on 35 mm DIN rail
- Optional remote changeover contact

Technical Data	EL-T2/2+0-130	EL-T2/2+0-130-FM	EL-T2/2+0-275	EL-T2/2+0-275-FM
IEC category/EN type	Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage	UN 120 V~	120 V~	230 V~	230 V~
Max. continuous operating voltage AC	Uc 130 V~	130 V~	275 V~	275 V~
Nominal discharge current (8/20)	In 15 kA	15 kA	20 kA	20 kA
Max. impulse discharge current (8/20)	I _{max} 40 kA	40 kA	40 kA	40 kA
Protection level at In	Up ≤ 0,7 kV	≤ 0,7 kV	≤ 1,2 kV	≤ 1,2 kV
Protection level at 5kA	Up ≤ 0,5 kV	≤ 0,5 kV	≤ 0,9 kV	≤ 0,9 kV
Short-circuit withstand capability at max. back-up fuse	I _k 25 kAeff	25 kAeff	25 kAeff	25 kAeff
Max. allowed prefuse	125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range	TU -40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)	IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)	2 TE	2 TE	2 TE	2 TE
Max. operating voltage remote contact		250 V AC/125 V DC		250 V AC/125 V DC
Max. operating current remote contact		1 A AC/200 mA DC		1 A AC/200 mA DC

Order Data				
Article-No.	38 81 64	38 81 57	38 81 65	38 81 58



SURGE PROTECTION FOR POWER SUPPLY SYSTEMS

SURGE ARRESTER TYPE 2, CLASS II



Technical Data		EL-T2/2+0-350	EL-T2/2+0-350-FM	EL-T2/2+0-440	EL-T2/2+0-440-FM
IEC category/EN type		Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage	UN	230 V~	230 V~	230 V~	230 V~
Max. continuous operating voltage AC	Uc	350 V~	350 V~	440 V~	440 V~
Nominal discharge current (8/20)	In	20 kA	20 kA	20 kA	20 kA
Max. impulse discharge current (8/20)	I _{max}	40 kA	40 kA	40 kA	40 kA
Protection level at In	Up	≤ 1,5 kV	≤ 1,5 kV	≤ 2,0 kV	≤ 2,0 kV
Protection level at 5kA	Up	≤ 1,0 kV	≤ 1,0 kV	≤ 1,5 kV	≤ 1,5 kV
Short-circuit withstand capability at max. back-up fuse	I _k	25 kA _{eff}	25 kA _{eff}	25 kA _{eff}	25 kA _{eff}
Max. allowed prefuse		125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range	TU	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals		1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals		35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour		Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)		IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)		2 TE	2 TE	2 TE	2 TE
Max. operating voltage remote contact			250 V AC/125 V DC		250 V AC/125 V DC
Max. operating current remote contact			1 A AC/200 mA DC		1 A AC/200 mA DC
Order Data					
Article-No.		38 81 66	38 81 59	38 81 67	38 81 60



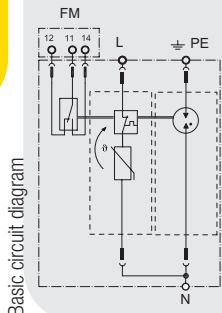
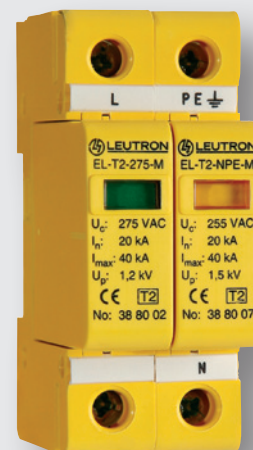
SURGE PROTECTION FOR POWER SUPPLY SYSTEMS

SURGE ARRESTER TYPE 2, CLASS II

Surge Arrester Type 2, class II, pluggable

EL-T2/1+1

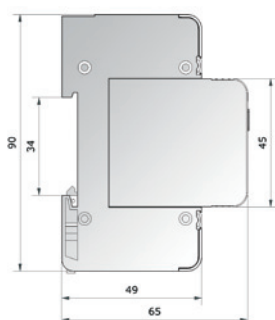
Fully pluggable surge protective arrester for the use in single-phase TT and TN systems.



- Test standard: IEC 61643-1 / EN 61643-11
- Optional remote changeover contact
- Mounting on 35 mm DIN rail

Technical Data		EL-T2/1+1-130	EL-T2/1+1-130-FM	EL-T2/1+1-275	EL-T2/1+1-275-FM
IEC category/EN type		Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage	UN	120 V~	120 V~	230 V~	230 V~
Max. continuous operating voltage AC	Uc	130 V~	130 V~	275 V~	275 V~
Nominal discharge current (8/20)	In	15 kA	15 kA	20 kA	20 kA
Max. impulse discharge current (8/20)	Imax	40 kA	40 kA	40 kA	40 kA
Protection level at In	Up	≤ 0,7 kV	≤ 0,7 kV	≤ 1,2 kV	≤ 1,2 kV
Protection level at 5kA	Up	≤ 0,5 kV	≤ 0,5 kV	≤ 0,9 kV	≤ 0,9 kV
Schutzpegel N-PE	Up	≤ 1,5 kV	≤ 1,5 kV	≤ 1,5 kV	≤ 1,5 kV
Folgestromlöschfähigkeit AC N-PE	ifi	100 Aeff	100 Aeff	100 Aeff	100 Aeff
Short-circuit withstand capability at max. back-up fuse	Ik	25 kAeff	25 kAeff	25 kAeff	25 kAeff
Max. allowed prefuse		125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range	TU	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals		1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals		35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour		Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)		IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)		2 TE	2 TE	2 TE	2 TE

Order Data				
Article-No.		38 81 78	38 81 71	38 81 79



SURGE PROTECTION FOR POWER SUPPLY SYSTEMS

SURGE ARRESTER TYPE 2, CLASS II



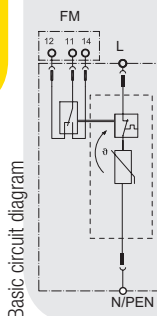
Technical Data		EL-T2/1+1-350	EL-T2/1+1-350-FM	EL-T2/1+1-440	EL-T2/1+1-440-FM
IEC category/EN type		Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage	UN	230 V~	230 V~	230 V~	230 V~
Max. continuous operating voltage AC	Uc	350 V~	350 V~	440 V~	440 V~
Nominal discharge current (8/20)	In	20 kA	20 kA	20 kA	20 kA
Max. impulse discharge current (8/20)	Imax	40 kA	40 kA	40 kA	40 kA
Protection level at In	Up	≤ 1,5 kV	≤ 1,5 kV	≤ 2,0 kV	≤ 2,0 kV
Protection level at 5kA	Up	≤ 1,0 kV	≤ 1,0 kV	≤ 1,5 kV	≤ 1,5 kV
Schutzpegel N-PE	Up	≤ 1,5 kV	≤ 1,5 kV	≤ 1,5 kV	≤ 1,5 kV
Folgestromlöschfähigkeit AC N-PE	Ifi	100 Aeff	100 Aeff	100 Aeff	100 Aeff
Short-circuit withstand capability at max. back-up fuse	Ik	25 kAeff	25 kAeff	25 kAeff	25 kAeff
Max. allowed prefuse		125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range	TU	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals		1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals		35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour		Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)		IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)		2 TE	2 TE	2 TE	2 TE

Order Data				
Article-No.		38 81 80	38 81 73	38 81 81
				38 81 74

Surge Arrester Type 2, class II, pluggable

EL-T2/1+0

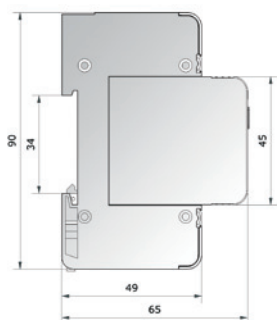
Fully pluggable surge protective arrester for the use between L - N wires.



- Test standard: IEC 61643-1 / EN 61643-11
- Mounting on 35 mm DIN rail
- Optional remote changeover contact

Technical Data		EL-T2/1+0-75	EL-T2/1+0-75-FM	EL-T2/1+0-130	EL-T2/1+0-130-FM
IEC category/EN type		Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage	UN	60 V~	60 V~	120 V~	120 V~
Max. continuous operating voltage AC	Uc	75 V~	75 V~	130 V~	130 V~
Nominal discharge current (8/20)	In	10 kA	10 kA	15 kA	15 kA
Max. impulse discharge current (8/20)	I _{max}	25 kA	25 kA	40 kA	40 kA
Protection level at In	Up	≤ 0,4 kV	≤ 0,4 kV	≤ 0,7 kV	≤ 0,7 kV
Protection level at 5kA	Up	≤ 0,33 kV	≤ 0,33 kV	≤ 0,5 kV	≤ 0,5 kV
Short-circuit withstand capability at max. back-up fuse	I _k	25 kA _{eff}	25 kA _{eff}	25 kA _{eff}	25 kA _{eff}
Max. allowed prefuse		125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range	TU	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals		1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals		35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour		Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)		IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)		1 TE	1 TE	1 TE	1 TE
Max. operating voltage remote contact			250 V AC/125 V DC		250 V AC/125 V DC
Max. operating current remote contact			1 A AC/200 mA DC		1 A AC/200 mA DC

Order Data				
Article-No.		38 81 91	38 81 84	38 81 92
				38 81 85



SURGE PROTECTION FOR POWER SUPPLY SYSTEMS

SURGE ARRESTER TYPE 2, CLASS II



Technical Data	EL-T2/1+0-275	EL-T2/1+0-275-FM	EL-T2/1+0-350	EL-T2/1+0-350-FM
IEC category/EN type	Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage UN	230 V~	230 V~	230 V~	230 V~
Max. continuous operating voltage AC Uc	275 V~	275 V~	350 V~	350 V~
Nominal discharge current (8/20) In	20 kA	20 kA	20 kA	20 kA
Max. impulse discharge current (8/20) Imax	40 kA	40 kA	40 kA	40 kA
Protection level at In Up	≤ 1,2 kV	≤ 1,2 kV	≤ 1,5 kV	≤ 1,5 kV
Protection level at 5kA Up	≤ 0,9 kV	≤ 0,9 kV	≤ 1,0 kV	≤ 1,0 kV
Short-circuit withstand capability at max. back-up fuse Ik	25 kAeff	25 kAeff	25 kAeff	25 kAeff
Max. allowed prefuse	125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range TU	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)	IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)	1 TE	1 TE	1 TE	1 TE
Max. operating voltage remote contact		250 V AC/125 V DC		250 V AC/125 V DC
Max. operating current remote contact		1 A AC/200 mA DC		1 A AC/200 mA DC

Order Data				
Article-No.	38 81 93	38 81 86	38 81 94	38 81 87

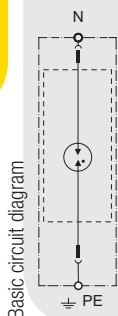
Technical Data	EL-T2/1+0-440	EL-T2/1+0-440-FM	EL-T2/1+0-550	EL-T2/1+0-550-FM
IEC category/EN type	Type2 / class II	Type2 / class II	Type2 / class II	Type2 / class II
Nominal alternating voltage UN	230 V~	230 V~	400 V~	400 V~
Max. continuous operating voltage AC Uc	440 V~	440 V~	550 V~	550 V~
Nominal discharge current (8/20) In	20 kA	20 kA	20 kA	20 kA
Max. impulse discharge current (8/20) Imax	40 kA	40 kA	40 kA	40 kA
Protection level at In Up	≤ 2,0 kV	≤ 2,0 kV	≤ 2,5 kV	≤ 2,5 kV
Protection level at 5kA Up	≤ 1,5 kV	≤ 1,5 kV	≤ 1,8 kV	≤ 1,8 kV
Short-circuit withstand capability at max. back-up fuse Ik	25 kAeff	25 kAeff	25 kAeff	25 kAeff
Max. allowed prefuse	125 A gL/gG	125 A gL/gG	125 A gL/gG	125 A gL/gG
Operating temperature range TU	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C	-40 - +80 °C
Min. conductor cross section at terminals	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible	1.5mm ² solid/flexible
Max. conductor cross section at terminals	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible	35mm ² stranded/25mm ² flexible
Enclosure material / colour	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0	Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)	IP 20	IP 20	IP 20	IP 20
Dimension (DIN 43880)	1 TE	1 TE	1 TE	1 TE
Max. operating voltage remote contact		250 V AC/125 V DC		250 V AC/125 V DC
Max. operating current remote contact		1 A AC/200 mA DC		1 A AC/200 mA DC

Order Data				
Article-No.	38 81 95	38 81 88	38 81 96	38 81 89

Surge Arrester Type 2, class II, pluggable

EL-T2/0+1-NPE

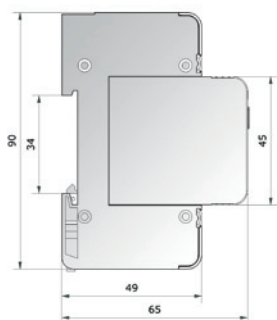
Type 2 surge cappable and rare-gas-filled summation current spark gap for the use between N - PE wire.



- Test standard: IEC 61643-1 / EN 61643-11
- Mounting on 35 mm DIN rail

Technical Data		EL-T2/0+1-NPE
IEC category/EN type		Type2 / class II
Nominal alternating voltage	UN	230 V~
Max. continuous operating voltage AC	U _c	260 V~
Nominal discharge current (8/20)	I _n	20 kA
Max. impulse discharge current (8/20)	I _{max}	40 kA
Schutzpegel N-PE	U _p	≤ 1,5 kV
Folgestromlöschfähigkeit AC N-PE	I _{fi}	100 Aeff
Short-circuit withstand capability at max. back-up fuse	I _k	25 kAeff
Max. allowed prefuse		125 A gL/gG
Operating temperature range	TU	-40 - +80 °C
Min. conductor cross section at terminals		1.5mm ² solid/flexible
Max. conductor cross section at terminals		35mm ² stranded/25mm ² flexible
Enclosure material / colour		Thermoplastic, yellow, UL 97 V-0
Degree of protection (IEC EN 60529)		IP 20
Dimension (DIN 43880)		1 TE

Order Data	
Article-No.	38 81 98





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38 81 03	EL-T2/4+0-350-FM	7	38 81 93	EL-T2/1+0-275	13
38 81 04	EL-T2/4+0-440-FM	7	38 81 94	EL-T2/1+0-350	13
38 81 08	EL-T2/4+0-130	7	38 81 95	EL-T2/1+0-440	13
38 81 09	EL-T2/4+0-275	7	38 81 96	EL-T2/1+0-550	13
38 81 10	EL-T2/4+0-350	7	38 81 97	EL-T2/1+0-750	13
38 81 11	EL-T2/4+0-440	7	38 81 98	EL-T2/0+1-NPE	15
38 81 15	EL-T2/3+1-130-FM	3	38 80 50	EL-T2/3+0-385-FM	5
38 81 16	EL-T2/3+1-275-FM	3	38 80 51	EL-T2/3+1-385-FM	3
38 81 17	EL-T2/3+1-350-FM	3	38 80 52	EL-T2/3+1-385	3
38 81 18	EL-T2/3+1-440-FM	3	38 80 53	EL-T2/3+0-385	5
38 81 22	EL-T2/3+1-130	3			
38 81 23	EL-T2/3+1-275	3			
38 81 24	EL-T2/3+1-350	3			
38 81 25	EL-T2/3+1-440	3			
38 81 29	EL-T2/3+0-130-FM	5			
38 81 30	EL-T2/3+0-275-FM	5			
38 81 31	EL-T2/3+0-350-FM	5			
38 81 32	EL-T2/3+0-440-FM	5			
38 81 36	EL-T2/3+0-130	5			
38 81 37	EL-T2/3+0-275	5			
38 81 38	EL-T2/3+0-350	5			
38 81 39	EL-T2/3+0-440	5			
38 81 57	EL-T2/2+0-130-FM	9			
38 81 58	EL-T2/2+0-275-FM	9			
38 81 59	EL-T2/2+0-350-FM	9			
38 81 60	EL-T2/2+0-440-FM	9			
38 81 64	EL-T2/2+0-130	9			
38 81 65	EL-T2/2+0-275	9			
38 81 66	EL-T2/2+0-350	9			
38 81 67	EL-T2/2+0-440	9			
38 81 71	EL-T2/1+1-130-FM	11			
38 81 72	EL-T2/1+1-275-FM	11			
38 81 73	EL-T2/1+1-350-FM	11			
38 81 74	EL-T2/1+1-440-FM	11			
38 81 78	EL-T2/1+1-130	11			
38 81 79	EL-T2/1+1-275	11			
38 81 80	EL-T2/1+1-350	11			
38 81 81	EL-T2/1+1-440	11			
38 81 84	EL-T2/1+0-75-FM	13			
38 81 85	EL-T2/1+0-130-FM	13			
38 81 86	EL-T2/1+0-275-FM	13			
38 81 87	EL-T2/1+0-350-FM	13			
38 81 88	EL-T2/1+0-440-FM	13			
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38 81 90	EL-T2/1+0-750-FM	13			



REGISTER ALPHABETICALLY

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EL-T2/1+1-350	38 81 80	11
EL-T2/1+1-350-FM	38 81 73	11
EL-T2/1+1-440	38 81 81	11
EL-T2/1+1-440-FM	38 81 74	11
EL-T2/2+0-130	38 81 64	9
EL-T2/2+0-130-FM	38 81 57	9
EL-T2/2+0-275	38 81 65	9
EL-T2/2+0-275-FM	38 81 58	9
EL-T2/2+0-350	38 81 66	9
EL-T2/2+0-350-FM	38 81 59	9
EL-T2/2+0-440	38 81 67	9
EL-T2/2+0-440-FM	38 81 60	9
EL-T2/3+0-130	38 81 36	5
EL-T2/3+0-130-FM	38 81 29	5
EL-T2/3+0-275	38 81 37	5
EL-T2/3+0-275-FM	38 81 30	5
EL-T2/3+0-350	38 81 38	5
EL-T2/3+0-350-FM	38 81 31	5
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EL-T2/3+0-385-FM	38 80 50	5
EL-T2/3+0-440	38 81 39	5
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EL-T2/4+0-130	38 81 08	7
EL-T2/4+0-130-FM	38 81 01	7
EL-T2/4+0-275	38 81 09	7
EL-T2/4+0-275-FM	38 81 02	7
EL-T2/4+0-350	38 81 10	7
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SURGE PROTECTION FOR POWER SUPPLY SYSTEMS

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