

MTL MA3350 range

Surge Protection Device for Low-voltage power distribution systems

SPECIFICATIONS

Category

EN 61643-11 Type 1 & 2
IEC 61643-11: 2011 Class I & II

Temperature range

-40 °C to +80 °C

Lead cross section

Models 1R through 4R = 3mm²
(#12 AWG)
Models XR = 8mm² (#8 AWG)

Mounting EN 60715

35mm top hat

Dimensions DIN 43880

1 TE

Location

Indoor

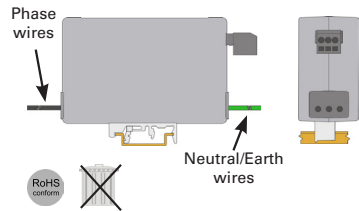
Humidity

5-95% RH (Non condensing)

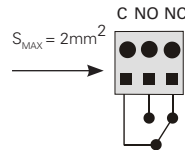
Residual current to PE

< 0.3mA

- Overvoltage arresters can be damaged if exposed to electrical loading which exceeds the values given in the table.
- Unauthorized intervention within the arrester is not permitted and invalidates the guarantee.



Remote signal connection



Contacts Ratings:
62.5VA, AC; 60W DC, 1A max

Note: Contacts will change state if there is an internal failure or if a power loss occurs.

Models	I _{max} (8/20 μS)
120-XR, 100-XR, 240-XR and 200-XR	200kA
All other models	50kA

Mounting


- Mounting of overvoltage arresters must be carried out by qualified personnel only.
- Overvoltage arresters must be installed in compliance with national regulations and consideration of protection conditions (IEC 60364-5-534).

Handling after expiration of life expectancy

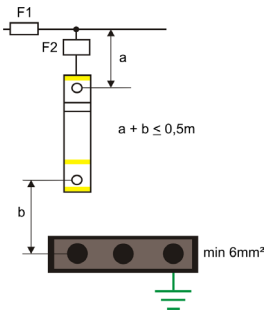
The product can be taken apart and the plastic and metal parts recycled in compliance with local regulations.

Back-up fuse

None required. If back-up fuse is desired, use the following table.

F1		$F1 > 100 \text{ A gL} \rightarrow F2 = 100 \text{ AgL}$
		$F1 \leq 100 \text{ A gL} \rightarrow F2 : \text{not installed}$

Installation



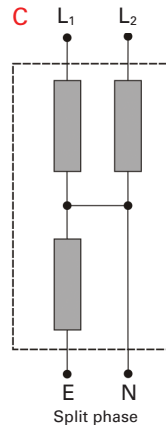
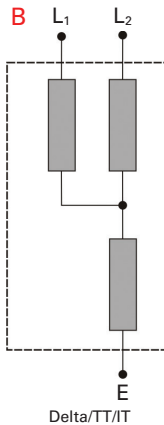
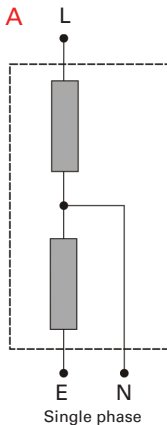
SPD connections

CAUTION: Verify voltage and earthing configuration of this product; match the voltage and earthing configuration of the installation.

MA3350-120-1R
MA3350-240-1R
MA3350-100-1R
MA3350-200-1R

MA3350-240-2R
MA3350-480-2R
MA3350-200-2R
MA3350-380-2R
MA3350-415-2R

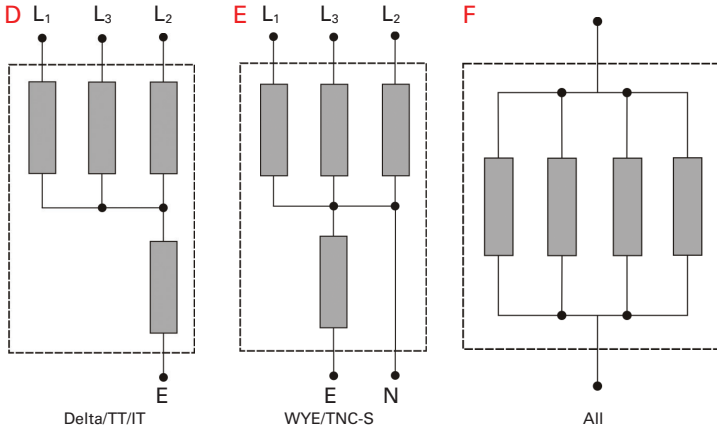
MA3350-120-3R
MA3350-100-3R



MA3350-240-3R
MA3350-480-3R
MA3350-200-3R
MA3350-380-3R
MA3350-415-3R

MA3350-120-4R
MA3350-240-4R
MA3350-100-4R
MA3350-200-4R

MA3350-120-XR
MA3350-240-XR
MA3350-100-XR
MA3350-200-XR



- Mount the MA3350 to the DIN rail close to the connection points.
- Connect the phase wires to the applicable supply phases (L1, L2, L3)*.
- Connect the neutral wire (if applicable) to the supply neutral buss.
- Connect the ground (earth) wire to the supply ground (earth) buss.

* **Note:** For MA3350 SPD used in the protection of a 3 phase AC circuit, the electric path of the L pole (L1, L2, L3) input lines within the SPD are identical. Therefore if L pole (L1 or L2 or L3) are connected to different L pole of the target protected electric circuit, there will be no problem with the operation of the SPD. The installation of the MA3350 SPD must be carried out by qualified personnel following national and local electrical installation rules and regulations.

LED Indication

Green LED ON - Power ON
Red LED OFF - Protection OK

Green LED OFF - Power ON
Red LED ON - Replace unit

Green LED OFF - Check AC supply
Red LED OFF - Faulty unit, replacement needed

Table defining cable colours

MODEL	L1	L3	L2	N (NEUTRAL)	E (EARTH)
MA3350-100-4R	BROWN	GREY	BLACK	BLUE	GRN/YLW
MA3350-120-4R	BROWN	GREY	BLACK	BLUE	GRN/YLW
MA3350-200-4R	BROWN	GREY	BLACK	BLUE	GRN/YLW
MA3350-240-4R	BROWN	GREY	BLACK	BLUE	GRN/YLW
MA3350-100-3R	BLACK		BLACK	WHITE	GREEN
MA3350-120-3R	BLACK		BLACK	WHITE	GREEN
MA3350-100-1R	BROWN	-	-	BLUE	GRN/YLW
MA3350-120-1R	BROWN	-	-	BLUE	GRN/YLW
MA3350-200-1R	BROWN	-	-	BLUE	GRN/YLW
MA3350-240-1R	BROWN	-	-	BLUE	GRN/YLW
MA3350-200-3R	BROWN	GREY	BLACK	-	GRN/YLW
MA3350-240-3R	BROWN	GREY	BLACK	-	GRN/YLW
MA3350-200-2R	BROWN		BLACK	-	GRN/YLW
MA3350-240-2R	BROWN		BLACK	-	GRN/YLW
MA3350-100-XR	BLACK	-	-	-	GREEN
MA3350-120-XR	BLACK	-	-	-	GREEN
MA3350-200-XR	BLACK	-	-	-	GREEN
MA3350-240-XR	BLACK	-	-	-	GREEN



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