

Langmatz Fuse Box EK480 with Surge Protection Device

The EK480 fuse box is a quality product made by Langmatz featuring high-quality craftsmanship and field-proven properties. The EK480 product series meets all mechanical and electrical requirements.

Lights with high-quality electronics can be effectively protected against voltage surges as well as switching operations or close-proximity lightning strikes.

Advantages | Fuse Box EK480

Flexibility

- Optimum assembly due to large terminal compartment
- Spring clamp technology (innovative plug technology enables tool-free core wiring to light)
- The EK480 can be retrofitted with a surge protection device

Stability and reliability

- Protection against contact, non-detachable, and transparent for easy wiring check
- Sturdy housing made of impact-resistant, solid coloured polyamide IP54

Surge protection features

- Dual visual error display for supply voltage and control phase discharge paths
- Transparent cover for visual detection of surge protection device failure
- Lights can be switched off if the surge protection device malfunctions
- Protection for a second phase/control phase
- Multipole type 2 surge arrester with monitoring device and disconnecter
- Design optimised for integration into top connection compartment

Area of application

- Suitable for use with door sizes 80x300 mm and upwards
- Suitable for installation with inner pole diameters of 89 mm and upwards




Fuse Box EK480
without transparent cover

Alternative surge protection devices available upon request.

Technical Data

Designation:	Fuse Box EK480 with surge protection device		
Dimensions:	Housing length	277 mm	
	Mounting length	265 mm	
	Housing width	80 mm	
	Installation depth	66 mm	
Inner pole diameters from:	89 mm		
Housing material:	Polyamide		
Housing colour:	Standard colour RAL 7035 light grey		
Design:	According to DIN 43 628 and VDE 0660 Part 505		
Protection rating:	IP 54 according to DIN VDE 0470		
Protection class:	II		
Cover:	transparent or grey		
Clamping technology:	Sliding clamp technology/spring clamp technology		
Maximum clamping cable cross-section:	1–3 cables (4 or 5 x 16 mm ²)		
Outlet terminals:	Max. 2.5 mm ²		

DEHNcord DCOR L 3P 275 SO LTG (900 445)			
<ul style="list-style-type: none"> • Visual error display for both protection paths • Load circuit interruption in the event of a fault • Compact design 			
Type and item no.	DCOR L 3P 275 SO LTG	900 445	
SPD according to EN 61643-11 / ... IEC 61643-11	Type 2/Class II		
Nominal AC voltage (U _N)	230 V (50/60 Hz)		
Highest continuous AC voltage [L-N] (U _C)	275 V (50/60 Hz)		
Highest continuous AC voltage [N-PE] (U _C)	255 V (50/60 Hz)		
Nominal discharge surge current (8/20 μs) (I _n)	5 kA		
Max. discharge surge current (8/20 μs) (I _{max})	10 kA		
Total discharge surge current (8/20 μs) [L+N-PE] (I _{total})	20 kA		
Protective level [L-N] (U _p)	≤ 1.5 kV		
Protective level [L-N] at 3 kA (U _p)	≤ 1kV		
Protective level [L-N] at 1.5 kA (U _p)	≤ 0.85 kV		
Protective level [N-PE] (U _p)	≤ 1.5 kV		
Follow current extinguishing capability [N-PE] (I _{fr})	100 A _{eff}		
Response time [L-N] (t _A)	≤ 25 ns		
Response time [L/N-PE] (t _A)	≤ 100 ns		
Max. mains-side surge protection	B 16 A		
Short-circuit withstand with mains-side surge protection (I _{SCCR})	1 kA _{eff}		
Short-circuit withstand with mains-side surge protection with 16 A gG (I _{SCCR})	6 kA _{eff}		
TOV [L-N] (U _T) characteristics	335 V/5 sec. withstand		
TOV [L-N] (U _T) characteristics	440 V/120 min. fail-safe		
TOV [N-PE] (U _T)- characteristics	1200 V/200 ms. fail-safe		
Error display	Red		
Load circuit interruption in the event of a fault	Yes		
Number of ports	1		
Operating temperature (T _U)	-40°C ... +80°C		
Connection slots	1.5 mm ² , length 60 mm		
Enclosure material	Thermoplastic, red, UL 94 V-2		
Installation location	Interior		
Protection rating when installed	IP 20		



DEHNcord surge protection device

