Headquarters

Bulgaria, 1404 Sofia 81, Bulgaria Blvd. Building 2, office 6, tel + 359 2 400 77 71 Fax + 359 2 400 77 84 email: info@electrostart.com www.electrostart.com

Surge Protective Device 10kA 10kV Type T2&T3 for Class II LED drivers & Luminaires

LED SPD T2&T3 10kVIIT

Features:

- O Wide range of mains supply AC voltage 100-277V&50/60Hz
- O Long life time & high durability
- o Suitable for insulation Class II luminaires, drivers, power supplies only
- High surge protection levels of up to 10kV/10kA
- \circ For better surge protection of LED luminaires/drivers is recommended tandem use of T2 & T3 protectors

Applications:

- o Highways lighting
- o Rural roads lighting

Protection

o Industrial zones lighting

Max. voltage protection level at In Up(L-N)

Backup fuse



Protection mode	Diff. mode		
Type of surge protection device according IEC/EN 61643-11	T2, T3		
Power grids	TNC, TNC-S, TNS, TT		
Max. voltage protection level at In Up(L-N)	1.8k V ± 10%		
Thermal protection	Yes		
Maximum recommended overcurrent protection of protected by SPD line	10A, gG fuse		
Status indicator "end of life"	Yes, optical, ON: SPD is functional; Light OFF: SPD must be replaced		
Suitable for luminaires of Safety Class	II		
Ingress protection	IP20		
Electrical characteristics			
Mains supply voltage Un(L-N) & Frequency	100 277VAC & 50/60Hz		
Max. continuous operating voltage Uc(L-N)	280VAC 50/60Hz		
Rated load current	5A		
Power losses	0.5W at Uc		
Temporary Overvoltage Ut (tt=5s; TN, TT-systems; LV system faults in consumer installation, 255VAC*1.32)	337VAC		
Temporary Overvoltage Ut (tt=120min; TN, TT-systems; LV system faults in distribution system and loss of neutral, 255VAC* $\sqrt{3}$)	442VAC		
Nominal discharge current In(L-N)	5kA 8/20uS current wave		
Max. discharge current Imax	10kA 8/20uS current wave		
Open circuit voltage Uoc	10kV 1.2/50uS voltage wave		

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 $1.8kV \pm 10\%$

10A max, gG fuse



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Durability			
Surge withstand capability 1 strike at 10kA max			
	≥ 20 strikes at 5kA max		
Ambient conditions			
Allowable operating ambient temperature ta	-30 +70°C		
Max. allowable casing temperature tc	+80°C		
Storage & Relative humidity	-30 $+80$ °C & 5 95% non-condensing		
Suitable for outdoor luminaires	Yes, built-in usage only		
Expose of UV radiaton and/or Sun light	Not allowable, do not expose		
Air pressure and altitude	80 106kPa & -500 +2000m		
Connections			
Connections to mains supply network	4 pole terminal block 0.5 2.5sq.mm		
Connections to protected line & device	by terminal block 0.5 2.5sq.mm		
Sizes&Fixing			
Dimensions	78*34.5*30mm (only body)		
Fixing screw type	M8x10		
Material			
Material of Body	plastic		
Weight (incl. nut)	86 ± 3 g		
Replacable parts	No replacable parts		
Warranty conditions			
Lifespan at tc < 80°C	up to 100 000h in depends of strikes and Tc		
Warranty	5 Years and/or according strikes and Tc		
Sertification			
CE			
Classification	Class II tests acc. EN61643-11		
Classification	Class III tests acc. EN61643-11		
Designation	Type 2, Type 3 acc. EN61643-11		

Modified Date Ro	Rev.	Description of Change		
		ltem	From	То
22.2.2024	1.2	Datasheet Release	/	/

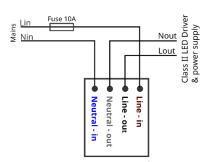
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Application diagram:



LED SPD T2&T3 10kVIIT T3 type connections when "end of life" is reached the protector and load are switched off from mains

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