

Surge Absorber (SPD)

- Safety standards
UL / TÜV / CSA
- RoHS Compliant

Compact Dual-purpose for ground-to-ground and line-to-line LT-C-WS Series

Circuit Disconnect Device (Thermal fuse) Built-in / Product replacement cycle (Device degradation) with display function

- ★ Total cost reduction : No need to purchase an external fuse or pay installation fees.
- ★ Effective use of total space (reduction) : There is no longer a need for space for an external fuse.
- ★ Simplified maintenance : You can check when it's time to replace the product at a glance through the display window.



Applications

Power circuit protection for switchboards, control panels, various machine tools such as NC lathes and welding machines, and general industrial equipment

Features

1. Safety design (improved safety) and lightning surge damage reduction

- ZnO (zinc oxide) element protects equipment from lightning surges.
- Even if the SPD element deteriorates or fails, the ZnO circuit isolation mechanism prevents the SPD unit from emitting smoke or catching fire. (Failure mode: Open)

2. Compact design (Effective use of space)

- Integrated protection for line-to-line and ground-to-ground lightning surges in one unit
- Compact design with multi-terminal elements (Same dimensions for 250V to 500V)
- The built-in ZnO (zinc oxide) element auto-disconnection mechanism - to save external fuses and space

3. Reliable withstanding surge

- Maximum discharge current of 5000A (8/20 μ s), Resistant to even major lightning surges
- Life cycle 1000A x 500 times, Long service life

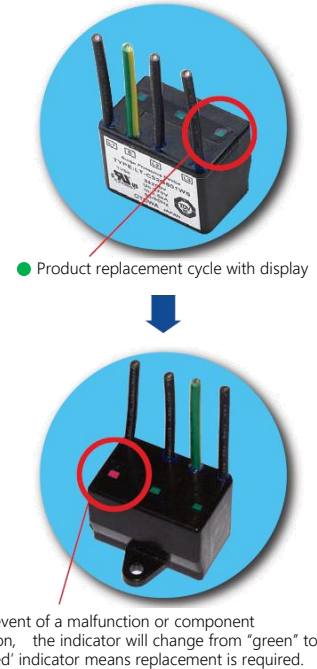
4. Safety standards

①JIS C5381-11 Class II test compliant

②EN 61643-11 TUV Certification (TÜV SÜD JAPAN)

③UL Certification (UL 1449 4th Edition) / CSA Certification (C22.2 No. 269)

- ★ Since this product is auto-disconnection mechanism that complies with the above standards ① and ②, an external fuse is not required.



● In the event of a malfunction or component degradation, the indicator will change from "green" to "red". A "Red" indicator means replacement is required.

Electrical Specifications

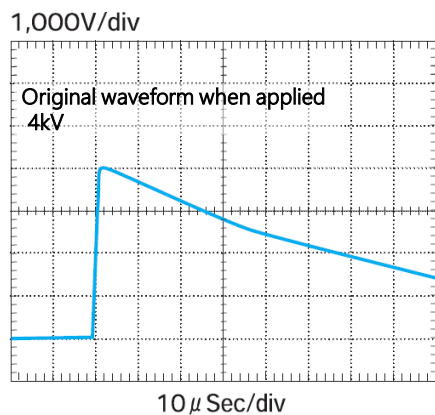
Part number	Single-phase		3-phase		
	LT-C12G801WS	LT-C14G801WS	LT-C32G801WS	LT-C34G801WS	LT-C35G102WS
Rated voltage(AC)	L-E,L-L : 250Vrms (UL : 240Vrms)	L-E : 250Vrms (UL : 240Vrms) L-L : 430Vrms (UL : 415Vrms)	Y-connection, Δ -connection: 250Vrms (UL : 240Vrms)	Y-connection : 430Vrms (UL : 415Vrms) Δ -connection : 250Vrms (UL : 240Vrms)	Y-connection : 500Vrms (UL : 480Vrms) Δ -connection : 290Vrms (UL : 277Vrms)
DC operating voltage (Not subject to safety standards / For reference only)	L-E : 170V L-L : 340V	L-E : 310V L-L : 620V	L-E : 170V L-L : 340V	L-E : 310V L-L : 620V	L-E : 355V L-L : 710V
Maximum continuous operating voltage(Uc)	L-E,L-L : 275Vrms	L-E : 280Vrms L-L : 480Vrms	Y-connection, Δ -connection: 275Vrms	Y-connection : 480Vrms Δ -connection : 280Vrms	Y-connection : 550Vrms Δ -connection : 320Vrms
Nominal discharge current (In)	2500A(8 / 20 μ s)				
D.C. Reference voltage(D.C.1mA)(L-L)	540V $\pm$ 10%	940V $\pm$ 10%	540V $\pm$ 10%	940V $\pm$ 10%	1100V $\pm$ 10%
A.C. Reference voltage(A.C.1mA)(L-L)	390Vrms $\pm$ 15%	670Vrms $\pm$ 15%	390Vrms $\pm$ 15%	670Vrms $\pm$ 15%	780Vrms $\pm$ 15%
D.C. Spark-over voltage(L-E)	800V $\pm$ 15%				1000V $\pm$ 15%
A.C. Spark-over voltage(L-E)	560Vrms $\pm$ 15%				700Vrms $\pm$ 15%
Voltage Protection Level(U _p)(L-E)	1.5kV	1.8kV	1.5kV	1.8kV	2.0kV
Maximum discharge current(I _{max})	5000A(8 / 20 μ s)				
Weight	40g	45g		50g	55g
Other Specifications	• Leakage current : Less than 200μA • Ambient temp : -20 ~ 70°C • Ambient storage temperature : -40 ~ 85°C • Insulated wire : UL 1015 AWG 16 heat-resistant vinyl-insulated wire • Recommended mounting torque : M4 1.6 ~ 2.0Nm				



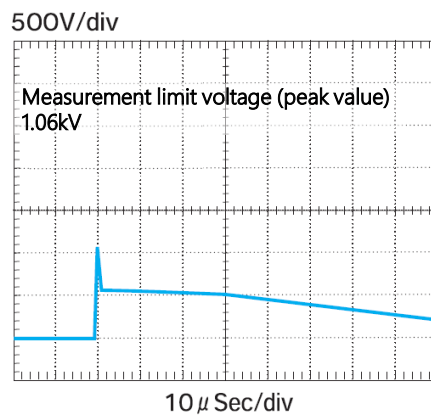
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1.2 / Example of a 50 μ s surge voltage application waveform

Unmeasured waveform

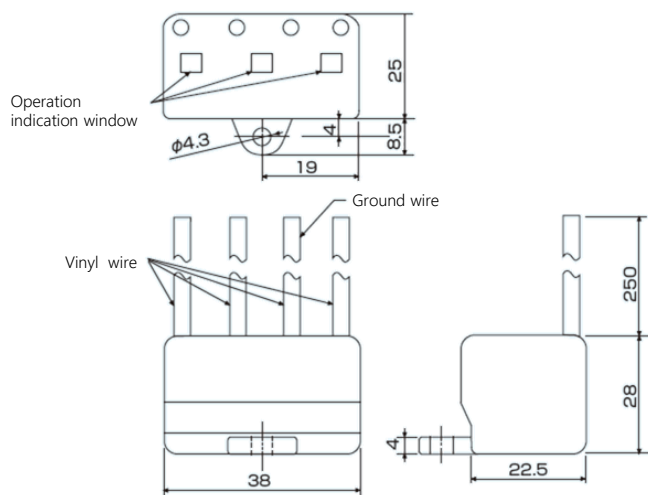


Typical Characteristics 3-phase 250V (LT-C32 G801WS)



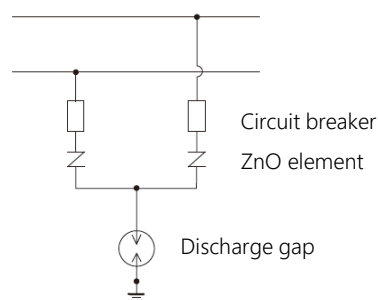
Dimensions

Unit : mm

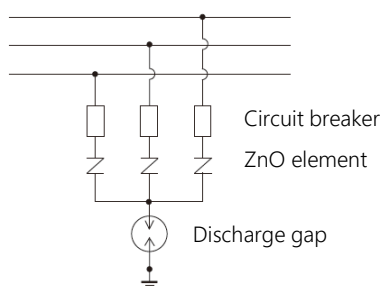


Circuit Diagram

Single-phase circuit diagram



3-phase circuit diagram



Important Notes:

*Subject to change without notice for improvement purposes.

*Please refer to the delivery specifications for important usage instructions before use.

< Contact Information >



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