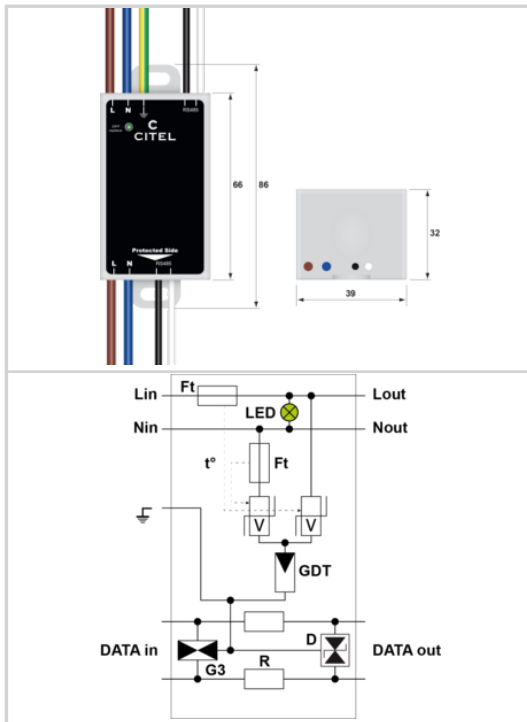
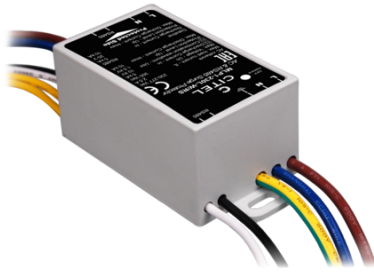


### MLP1-230L-W/RS

Specially developed spd with combined protection for 2-phase power supply (control phase):

- Many variants available depending on application
- With screw terminals or cable wiring
- IP65 versions
- For protection class I or II application
- Developed for  $U_{oc}$ : 10 kV and  $I_{max}$ : 10 kA for highest outdoor requirements according to IEEE & ANSI
- Optical error signalling



Electrical Characteristics	
SPD type	2+3
Network	220-240 V Single-phase
AC system	TT-TN
Nominal line voltage	$U_n$ 230-277 Vac
Max. AC operating voltage	$U_c$ 305 Vac
Max. frequency	$f_{max}$ 10 MHz
Max. load current	$I_L$ 2.5 A
Temporary Over Voltage (TOV) Characteristics - 5 sec. Without disconnection	$U_T$ 335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn Without disconnection or with safety disconnection	$U_T$ 440 Vac disconnection
Residual Current Leakage current to Ground	$I_{pe}$ None
Follow current	$I_f$ None
Nominal discharge current 15 x 8/20 $\mu$ s impulses	$I_n$ 5 kA
Max. discharge current max. withstand @ 8/20 $\mu$ s by pole	$I_{max}$ 10 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	$I_{max}$ Total 20 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ s	$U_{oc}$ 10 kV / 5 kA
Withstand on overvoltages IEEE C62.41.1	10 kV / 10 kA
Protection level L/N @ $I_n$ (8/20 $\mu$ s)	$U_p$ L/N 1.5 kV
Protection level L/PE @ $I_n$ (8/20 $\mu$ s)	$U_p$ L/PE 1.5 kV
Admissible short-circuit current	$I_{sc}$ 10 000 A
Mechanical Characteristics	
Technology	MOV+GDT
Mounting	Wall or plate
Housing material	Thermoplastic UL94 V-0
Operating temperature	$T_u$ -40/+85°C
Protection rating	IP20
Failsafe mode	Disconnection and AC line cut-off
Disconnection indicator	LED green OFF and AC network cut-off
Voltage/operating indicator	Green led(s) on
Remote signaling of disconnection	No
Dimensions	See diagram
Disconnectors	
Thermal disconnecter	Internal
Installation ground fault breaker	Type 'S' or delayed
Standards	
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Part number	711251