

WSPSA5

12kV U_r , 9.6kV U_c , polymeric surge arrester

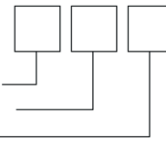


- Metal oxide arrester (ZnO)
- Polymeric Housing
- Outdoor application
- IEC 60099-4; 2014
- Nominal discharge current: 10 kA
- Designation class SL
- Charge current rate (Qrs): 1.6 C (Impulse)
- High current impulse 4/10 μ s: 100 kA
- Energy Capability (Wth): 6.7 kJ/kV at U_r (Thermal)
- These arresters meet the requirements of ENA G78 Issue 4 for use as SA5*

Product code

PBA1-12

Line Terminal
Ground Terminal
Mounting



Marking

PBA1-12
 U_r : 12.0 kV U_c : 9.6 kV
IEC 60099-4
Designation SL
 I_{sc} 65 kA
Serial No
Energy 6.7 kJ/kV-Ur
Nom Disc Curr 10 kA
Qrs: 1.6C
Manufacturing Year



Surge Arrester Characteristics

Rated voltage	U_r	12 kV
Continuous operating voltage	U_c	9.6 kV
TOV Capability (With prior energy), 1s	T_c	13.6 kV
TOV Capability (With prior energy), 10s	T_c	13.0 kV
Rated short circuit current		65 kA
Cantilever Load		
Safe long-term load (SLL)		0.6 kNm
Safe short-term load (SSL)		1.0 kNm
Dry impulse voltage, 1,2/50 μ s		321 kV
Wet power frequency voltage		122 kV
Flashover Distance		461 mm
Creepage Length		1340 mm
Minimum distance between Phase Centers		320 mm
Minimum distance between Phase to Earth		60 mm
Height		449 mm
Approx. Weight		7.0 kg

Maximum Residual Voltages

Lightning current impulse, 8/20 μ s

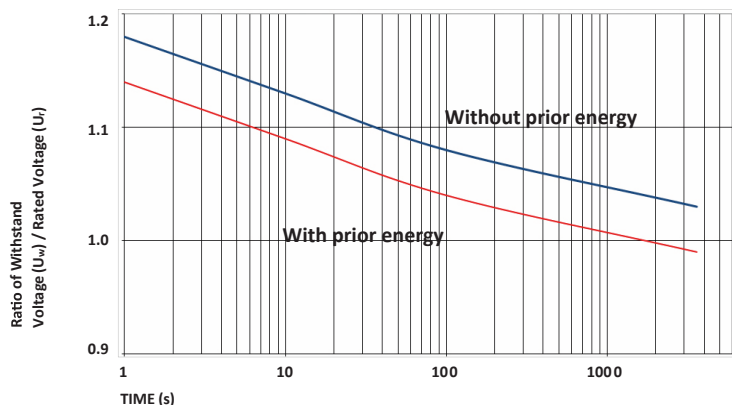
I (kA)	1.5	3	5	10	15	20
V (kV)	26.5	27.9	28.5	30.3	32.1	33.3

Steep lightning current impulse, 1/20 μ s

I (kA)	10
V (kV)	31.8

Switching current impulse, 30/60 μ s

I (A)	125	250	500	1000	2000	3000
V (kV)	23.0	23.7	24.4	25.2	26.4	27.3



Line terminal options



L1
M16 stud assembly



L2
Line Clamp to suit
cables up to Ø16 mm



L5
Line Clamp to suit
cables up to Ø35 mm



L6
Aluminium Stem
Ø30 x 80mm high



L21
4 Hole NEMA Pad

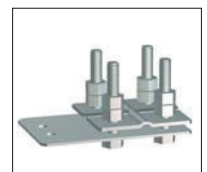
Ground terminal options



E1
2 x M10 x 20mm
Hexagonal headed
set screws and
spring washers



E2
Earth Clamp to suit
cables up to Ø16 mm



E5
Earth Clamp to suit
cables from Ø16 mm
to 35mm

Ground terminal options



M7
Pedestal Base with
3 x 15mm slots on
200mm - 254mm
PCD



M8
Set of 3 Ø89 x 76
Polyfibre Base
Insulators supplied
with M7 pedestal
base with 3 x 15mm
slots on 200mm -
254mm PCD

* Suitable for sites with a 50Hz ROP <30kV. Impulse withstand between tower earth and local/DNO earth components must be > 38kV. See ENA Engineering recommendation G78, Issue 4, § 4.4.8.5 for details.