

ASM SERIES

Silicone Housed Gapless Surge Arrester

The ASM Series 10kA Class1 arrester is a Metal-Oxide based surge protection device designed for use in ac power distribution systems.

The arresters are designed and manufactured within an ISO9001:2000 quality system. This ensures reliable and predictable mechanical integrity and stability of electrical performance.

The arrester is fully tested and approved to meet the requirements of EN 60099-4 : 2004.

Construction:

The Silicone insulating housing is directly injection moulded to the arrester core. This forms a robust and homogenous structure that will be immune, in a short circuit condition, to the explosive response common in a porcelain housed arrester.

The Silicone housing material is widely recognised for its self-cleaning and hydrophobic qualities and compatibility with the outdoor Standard Operating conditions for which it has been designed.

A range of fixing terminations and assembly accessories are available to suit most installations. *(See ordering information)



Characteristics

Rated Frequency	48 - 62Hz
Operating Conditions	Normal
Nominal Discharge Current	10kA
Line Discharge Class	1
Long Duration Discharge Current	280A (2ms)
High Current Impulse 4/10 μ s	100kA
Short-circuit Withstand Current	31.5kA (200ms)
Energy Absorption Capability E (kJ) / 1kV (U ₁)	3.5kJ
Loading Capability	
Bending Moment	250Nm
Torque Moment	50Nm
Load Capacity	625N

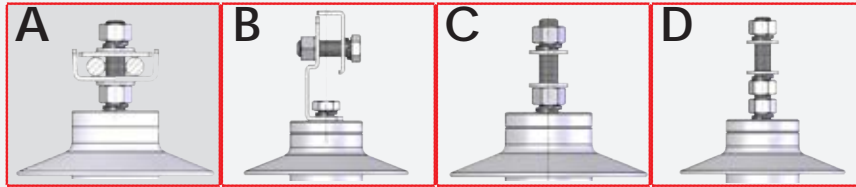
Features:

- LSR Silicone housing
- Superior hydrophobic properties
- High mechanical strength
- Excellent environmental resilience e.g. to ozone, ultra violet radiation, heat etc
- Stable operating characteristics
- Operating temperature range -55°C to +55°C
- Complete range of installation accessories available
- RoHS Compliant

Operating Specifications for the ASM Series

Type	Part Code	Rated Voltage (Ur) kVrms	Continuous Operating Voltage (Uc) kVrms	Residual Voltage at Nominal Discharge Current (In) kVmax	Residual Voltage at Steep Current Impulse kVmax	Residual Voltage at Switching Impulse 500A kVmax	Minimum Creepage Distance (L) mm	Height (H) mm
A	ASM 04	5.0	4.0	13.5	14.5	10.0	250	136
	ASM 05	6.3	5.0	17.0	18.3	12.6		
	ASM 06	7.5	6.0	20.3	21.8	15.0		
B	ASM 07	8.8	7.0	23.8	25.5	17.6	370	186
	ASM 08	10.0	8.0	27.0	29.0	20.0		
	ASM 09	11.3	9.0	30.5	32.8	22.6		
	ASM 10	12.5	10.0	33.8	36.3	25.0		
	ASM 11	13.8	11.0	37.3	40.0	27.6		
	ASM 12	15.0	12.0	40.5	43.5	30.0		
C	ASM 13	16.3	13.0	44.0	47.3	32.6	490	236
	ASM 14	17.5	14.0	47.3	50.8	35.0		
	ASM 15	18.8	15.0	50.8	54.5	37.6		
	ASM 16	20.0	16.0	54.0	58.0	40.0		
	ASM 17	21.3	17.0	57.5	61.8	42.6		
	ASM 18	22.5	18.0	60.8	65.3	45.0		
D	ASM 19	23.8	19.0	64.3	69.0	47.6	610	286
	ASM 20	25.0	20.0	67.5	72.5	50.0		
	ASM 21	26.3	21.0	71.0	76.3	52.6		
	ASM 22	27.5	22.0	74.3	79.8	55.0		
	ASM 23	28.8	23.0	77.8	83.5	57.6		
	ASM 24	30.0	24.0	81.0	87.0	60.0		
E	ASM 25	31.3	25.0	84.5	90.8	62.6	730	336
	ASM 26	32.5	26.0	87.8	94.3	65.0		
	ASM 27	33.8	27.0	91.3	98.0	67.6		
	ASM 28	35.0	28.0	94.5	101.5	70.0		
	ASM 29	36.3	29.0	98.0	105.3	72.6		
	ASM 30	37.5	30.0	101.3	108.8	75.0		
F	ASM 33	41.3	33.0	111.5	119.0	82.6	850	386
	ASM 36	45.0	36.0	121.5	130.5	90.0		

Ordering Information



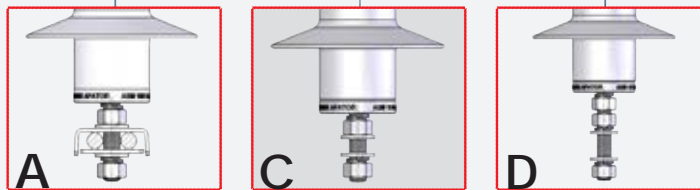
LINE TERMINALS

ASM **18** **N** **A + C + 3**

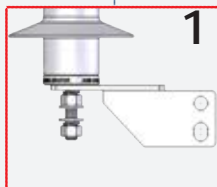
U_c voltage from 04 to 36

normal creepage distance

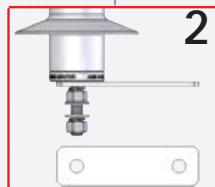
EARTH TERMINALS



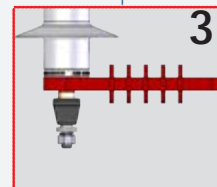
ASSEMBLING ACCESSORIES



angle metal bracket



straight metal bracket

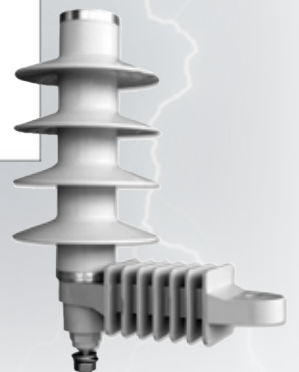


insulating bracket with disconnector

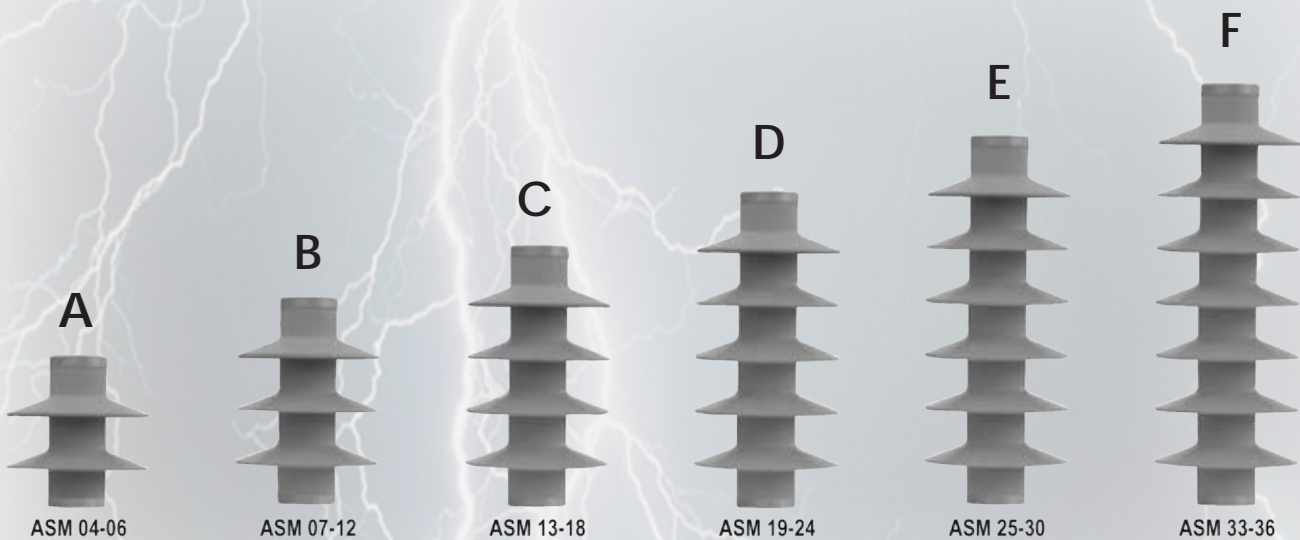
The example of ordering of surge arrester

*** ASM 18 N + A + C + 3**

- ASM - designation
- 18 - continuous operating voltage U_c
- N - creepage distance
- A - line terminal type A
- C - earth terminal type C
- 3 - type of mounting accessories



Ordering Information



For more information, please call our customer service department on
+44 (0)1364 649248 to discuss your requirements.

**PD Devices operates a policy of continual development and therefore specifications in
this publication are subject to change without prior notification**

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale.

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