

Sheath Voltage Limiter(SVL)

EMC-SL-01-10..(1.8kV to 18kV)



Technical Data

Classification according to IEC 60099-4

Arrester class :	SL, Station Low
Line discharge class:	2
Rated discharge current (8/20 μ s), I_r :	10kA
Rated short circuit current, I_{sc} :	20kA
High Current Impulse (4/10 μ s) :	100kA
Repetitive charge transfer rating Qrs:	1.0(C)
Cantilever strength :	500Nm (M12)
Rated Thermal Energy	4.5kJ/kV(U_r)

Power frequency voltage versus time characteristics (TOV)

With no prior duty energy input

U_{TOV} at t=1 s	1.162 U_r =1.358 U_c
U_{TOV} at t=3 s	1.142 U_r =1.336 U_c
U_{TOV} at t=10 s	1.091 U_r =1.276 U_c

With prior duty energy input of 4.5kJ/KV(U_r)

U_{TOV} at t=1 s	1.045 U_r =1.222 U_c
U_{TOV} at t=3 s	1.038 U_r =1.214 U_c
U_{TOV} at t=10 s	1.005 U_r =1.175 U_c

Product Description

- Zinc Oxide (ZnO) surge arresters comply with the requirements of IEC 60099-4, including the updated classifications and performance criteria introduced in the 2014 revision.
- *Direct Integration into the **Link Boxes***
- Suitable for overvoltage protection of **cable sheaths**
- High Energy absorption capacity
- High-quality, safe ,reliable and maintenance free design
- *Suitable for Indoor Installations*
- *All type test reports have been issued by CESI S.p.A.*

STANDARD CHARACTERISTICS

Type	Rated Voltage (Ur)	Cont. Voltage (Uc)	Creepage Distance	Height H	Weight	Insulation Withstand Voltage of Housing	
						1,2/ 50µs	50Hz 60s, dry
	kV	kV	mm	mm	kg	kV	kV
EMC-SL-01-10.1.8	1.8	1.5	127	89	0,50	40	18
EMC-SL-01-10.3	3.0	2.6	127	89	0,56	40	18
EMC-SL-01-10.3.6	3.6	3.1	127	89	0,56	40	18
EMC-SL-01-10.5	5.0	4.3	127	89	0,62	40	18
EMC-SL-01-10.6	6.0	5.1	127	89	0,63	40	18
EMC-SL-01-10.7	7.0	6.0	127	89	0,70	40	18
EMC-SL-01-10.7.2	7.2	6.1	127	89	0,70	40	18
EMC-SL-01-10.9	9.0	7.7	185	124	0,90	58	30
EMC-SL-01-10.10	10.0	8.5	185	124	1,00	58	30
EMC-SL-01-10.12	12.0	10.2	271	177	1,23	85	45
EMC-SL-01-10.15	15.0	12.7	271	177	1,34	85	45
EMC-SL-01-10.18	18.0	15.3	328	210	1,57	105	60

ELECTRICAL CHARACTERISTICS

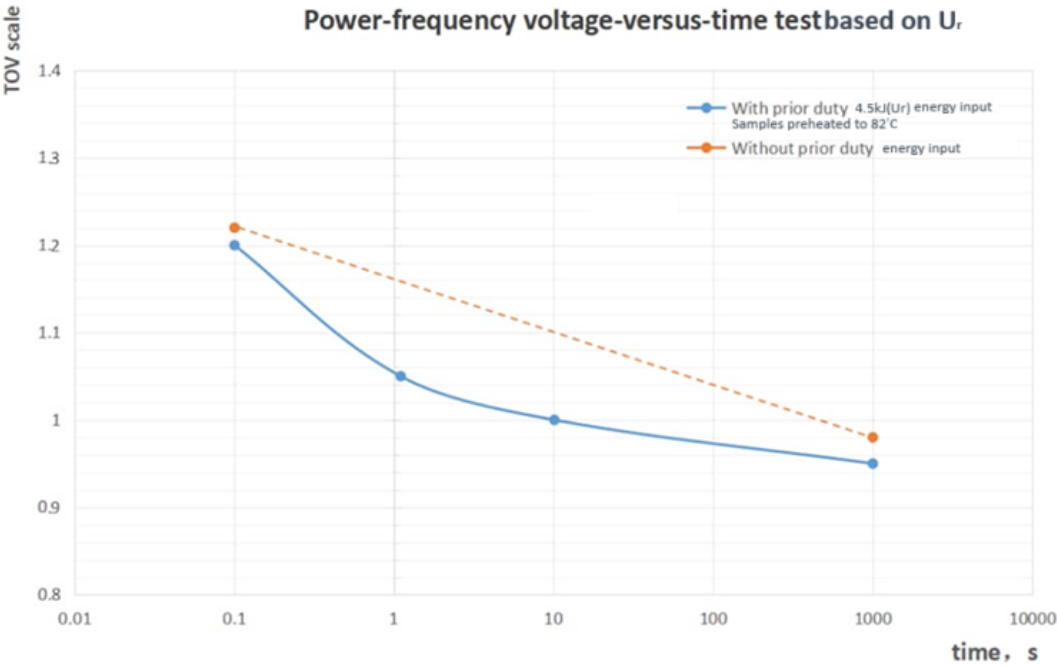
Type	RESIDUAL VOLTAGE							
	Steep Current Impulse Wave (1/20μs)	Lightning Current Impulse Wave (8/20μs)					Switching Current Impulse Wave (30/60μs)	
	10kA kV	2.5kA kV	5 kA kV	10 kA kV	20 kA kV	40 kA kV	125 A kV	500 A kV
EMC-SL-01-10.1.8	5.8	4.5	4.7	5.1	5.8	7.25	4.3	4.4
EMC-SL-01-10.3	9.7	7.5	7.8	8.5	9.6	12	7.2	7.4
EMC-SL-01-10.3.6	11.4	9.0	9.4	10.0	11.3	14.1	8.6	8.9
EMC-SL-01-10.5	16.2	12.5	12.9	14.2	16.0	20	12	12.3
EMC-SL-01-10.6	19.4	15.0	15.6	17	19.2	24	14.4	14.8
EMC-SL-01-10.7	22.6	17.5	18.2	19.8	22.4	28	16.8	17.3
EMC-SL-01-10.7.2	23.3	18	18.7	20.4	23.1	28.9	17.3	17.8
EMC-SL-01-10.9	29	22.5	23.4	25.5	28.8	36	21.6	22.2
EMC-SL-01-10.10	32.3	25.0	26.0	28.3	32.0	40	24	24.7
EMC-SL-01-10.12	38.8	30	31.2	34	38.4	48	28.8	29.6
EMC-SL-01-10.15	48.5	37.5	39.0	42.5	48.1	60.1	36	37
EMC-SL-01-10.18	58.5	45	46.8	51	57.6	72	43.2	44.4

TYPE TESTS

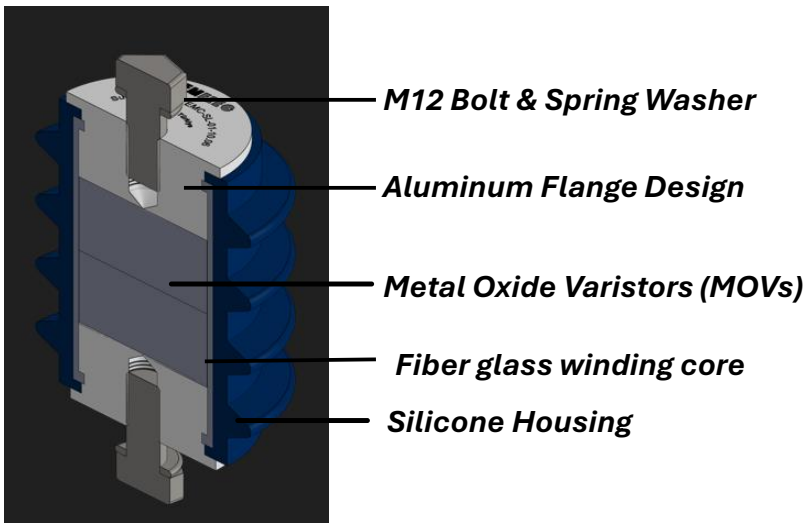
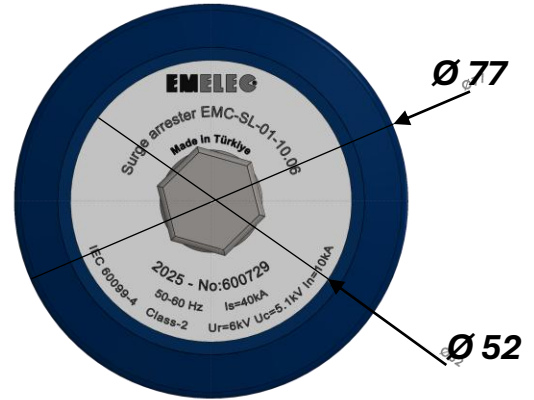
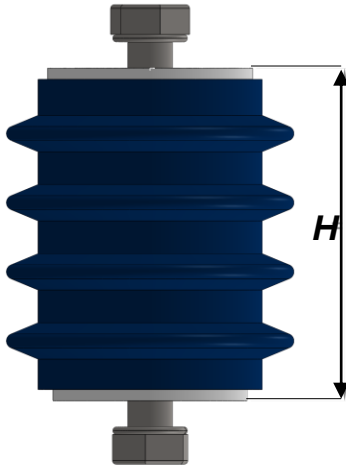
Carried out by CESI LAB (KEMA Laboratories) including:

- Operating duty test
- Short-circuit test
- Heat dissipation test
- Insulation withstand test
- Power-frequency voltage versus time test
- Residual voltage test
- Test to verify repetitive charge transfer rating, Qrs.
- Test to verify long-term stability under continuous operating voltage

TOV CHARACTERISTICS



DIMENSIONS



Advantages of Silicon Rubber Housing

- The Silicon rubber were vulcanized on the varistors fiber glass winding core directly from a tight complete arrester, there is no air gap inside, which prevents partial discharge and prolongs the electric life, thus having high operational reliability.
- Silicon rubber will not explode or crack like ceramic jacket when bear overload. Because arc combustion can travel small holes in the silicon rubber shell, the arrester can easily release energy and find overload.
- Silicon rubber is hydrophobic , anti-fouling and doesn't form the surface layer of a semiconductor as quickly as any other insulators. Therefore, the leakage current on the surface of silicon rubber housing is very low.

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