

HE surge arrester : HE 09

<i>HOUSING MODEL</i>	<i>kV rated</i>	12
<i>Minimum ambient temperature</i>	°C	- 50
<i>Maximum ambient temperature</i>	°C	+ 50
<i>Maximum altitude</i>	m	5000
<i>Maximum pollution level</i>	<i>according to IEC 815</i>	4
<i>Maximum ice thickness</i>	mm	20
<i>Maximum wind speed</i>	m/s	50

	Type	HE 09
Rated voltage	Ur in kV rms	9
Rated frequency	Hz	50
Continuous operating voltage	Uc in kV rms	7,7
Nominal discharge current	In in kA with 8/20 impulse	10
Line discharge class	Class	1
High current impulse withstand	kA with 4/10 impulse (* 2)	100
Maximum leakage current under Uc at 20 °C	resistive component in mA peak	1,0
	capacitive component in mA peak	0,5
	total current in mA rms	1,0
Energy absorption capability with 8/20 impulse	kJ / kV of Ur	4,1
	kJ / kV of Uc	4,8
Long duration current impulse withstand	A with 2 ms impulse (* 18)	300
Energy absorption capability with 2 ms impulse	kJ / kV of Ur	2,0
	kJ / kV of Uc	2,4
Maximum lightning residual voltage	kV peak at 2.5 kA 8/20	24,9
	kV peak at 5 kA 8/20	26,4
	kV peak at 10 kA 8/20	28,1
	kV peak at 20 kA 8/20	31,1
Maximum switching residual voltage	kV peak at 40 kA 8/20	35,3
	kV peak at 125 A 30/80	21,1
	kV peak at 500 A 30/80	22,3
Maximum steep current impulse residual voltage	kV peak at 1 kA 30/80	23,2
	kV peak at 5 kA 1/2.5	27,7
	kV peak at 10 kA 1/2.5	30,3
Temporary overvoltage capability in kV rms	1 s without prior duty	11,6
	1 s with prior duty	10,5
	1 s with maximum prior duty	10,1
	10 s without prior duty	11,1
	10 s with prior duty	10,0
	10 s with maximum prior duty	9,7
Minimum reference voltage at 20 °C	Iref in mA peak AC	1
	Uref in kV peak/√2	8,7
Short circuit current withstand	kA during 0.2 s	20
	A during 1.0 s	600
Axial partial discharge level	pC under 1.05*Uc	< 10
Mechanical strength	dynamic bending moment in daN.m	15
	dynamic cantilever loading in daN	90
	static bending moment in daN.m	10
	static cantilever loading in daN	60
	dynamic pull loading in daN	75
	static pull loading in daN	50
	dynamic torsional loading in daN.m	5,0
	static torsional loading in daN.m	3,5
Line terminal	maximum conductor diameter in mm	18
	permissible materials	Cu / Al / Acier
Earth terminal	maximum conductor diameter in mm	selon version
	permissible materials	Cu / Al / Acier
Insulation withstand	power frequency 60 s dry in kV rms	42
	power frequency 60 s wet in kV rms	38
	1.2/50 lightning impulse dry in kV peak	95
Physical characteristics of the housing	material	silicone
	nb of weathersheds (small / big)	4 / 5
	weathersheds diameter in mm	75 / 105
Nominal creepage distance	mm	480
	mm / kV of Ur	53,3
Nominal arc lenght	mm	195

	Option	NO
Approximate weight in kg		1,2