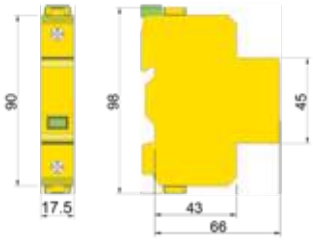

L 7/30 ... ff

L 7/30 ... ff is a voltage limiting SPD providing a single mode of protection, typically installed at the origin of the installation (e.g. in the Main Distribution Board (MDB)), in TN-systems or in TT-systems in combination with N-PE SPD model I 100, I 52 and with connection type CT2 (1+1 or 3+1). It is used also for the protection of wind turbines.
It provides the following features and benefits:

- **Impulse test classification: Test class I and II / Type 1 and 2** (according to **IEC/EN 61643-11**);
- **Backup protection is not required with an upstream MCB ≤ 125 A or up to an Isccr ≤ 4 kA rms (for U_N 230/400 V);**
- **Three colour Status Indicator with progressive indication of remaining performance.**

					Mini Wind Turbines	Wind Turbines
Model L 7/30 ...			230 ff	400 ff	600 ff	750 ff
CODE			**207 100**	**207 104**	**207 106**	**207 107**
Nominal ac system voltage		U_N	230/400 V ac	400/690 V ac	480/831 V ac	554/960 V ac
Modes of protection (number of poles)			1			
Max Continuous Operating Voltage		U_c	335 V ac	460 V ac	690 V ac	750 V ac
Test Class (acc. to IEC 61643-11 Ed. 1.0 2011-03)			I and II			
Type (acc. to EN 61643-11 2012-10)			T1 and T2			
Impulse discharge current (10/350 µs)		I_{imp}	7 kA		5 kA	
Charge		Q	3,6 As		2,9 As	
Nominal discharge current (8/20 µs)		I_n	30 kA		25 kA	20 kA
Max. discharge current (8/20 µs)		I_{max}	40 kA			
Voltage protection level at a discharge current of:	1 kA	U_p	≤ 0,80 kV	≤ 1,20 kV	≤ 1,75 kV	≤ 1,85 kV
	7 kA	U_p	≤ 1,10 kV	≤ 1,46 kV	≤ 2,15 kV	≤ 2,25 kV
	20 kA	U_p	≤ 1,30 kV	≤ 1,90 kV	≤ 2,72 kV	≤ 2,75 kV
	25 kA	U_p	≤ 1,40 kV	≤ 2,03 kV	≤ 2,90 kV	-
	30 kA	U_p	≤ 1,50 kV	≤ 2,15 kV	-	-
Response time		t_a	≤ 25 ns			
End of Life			OCFM (Open Circuit Failure Mode)			
Temporary OverVoltage (TOV) withstand		U_T	440 V / 120 min	797 V / 120 min	915 V / 120 min	1056 V / 120 min
Short Circuit Current rating without backup protection (internal disconnector)		I_{sccr}	4 kA rms	3 kA rms	2 kA rms	2 kA rms
Short Circuit Current rating with max. backup protection fuse		I_{sccr}	100 kA rms	100 kA rms	100 kA rms	100 kA rms
Max. back-up protection with up-stream MCB with max. let-through energy of (max. prospective short circuit current depends on MCB breaking capability)			125 A (max.4,50x10^5 A^{2}s)	125 A (max.4,50x10^5 A^{2}s)	-	-
Max. back-up protection with FUSE at prospective short circuit current of			125 A gG at (> 4 ÷ 100 kA rms)	125 A gG at (> 3 ÷ 100 kA rms)	125 A gG at (> 2 ÷ 100 kA rms)	125 A gG at (> 2 ÷ 100 kA rms)
Follow current interrupt rating		I_{fi}	NFC No Follow Current®			
Status indicator (indication of disconnector operation)			3 colours with progressive performance indication			
Operating temperature range / Humidity			-40 … +80 °C (extended) / 5% ... 95%			
Terminal - Conductor size			4-35 mm² flexible			
Busbar connections			fork-type busbar 16 mm²			
Mounting			indoor, 35 mm top hat DIN rail			
Case material / Flammability grade			BMC / V-0 in accordance with UL 94			
Pollution degree		PD	3		2	
Degree of protection		IP	20 (built-in)			
Approximate weight			130 g	175 g	180 g	190 g
Dimensions: width			17,5 mm (1 module)			
Certifications / Quality Mark			CB, STC issued by OVE / Kema-keur			

Model L 7/30 ... with remote signal contact		230 t ff	400 t ff	600 t ff	750 t ff
CODE		**217 100**	**217 104**	**217 106**	**217 107**
Remote signal contact		potential-free changeover contact			
Terminal - conductor size for remote signal contact		max. 1,5 mm² flexible			
Switching capacity remote signal contact		ac: 250 V / 0,5 A – dc: 125 V / 0,2 A; 75 V / 0,5 A			

TECHNICAL DATA