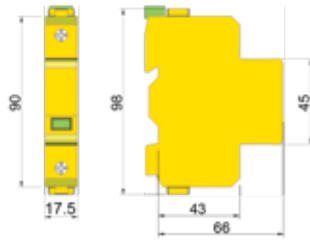




# Surge Protective Devices: ZOTUPLIMITER



L 7/30 DC ... ff

L 7/30 DC ... ff is a voltage limiting SPD providing a single mode of protection, typically installed in DC Distribution Boards (DB) with the following features and benefits:

- **Impulse test classification for 230, 600 and 1000 V dc: Test Class I and II according to IEC 61643-11(2011-03) and Type 1 and Type 2 according to EN 61643-11 (2012-10);**
- **Impulse test classification for 60 and 110 V dc: Test Class II and Type 2;**
- **Backup protection is not required up to a prospective DC short circuit current of 1000 A (for U<sub>N</sub> up to 230 V);**
- **Three colour Status Indicator with progressive indication of remaining performance;**
- Pollution Degree 3 up to U<sub>N</sub> 230 V dc.

TECHNICAL DATA

Model L 7/30 DC ...		60 ff	110 ff	230 ff	600 ff	1000 ff
<b>CODE</b>		<b>200 602</b>	<b>200 603</b>	<b>200 600</b>	<b>200 606</b>	<b>200 610</b>
Nominal dc system voltage	U <sub>N</sub>	60 V dc	110 V dc	230 V dc	600 V dc	1000 V dc
Modes of protection (number of poles)		1				
Max Continuous Operating Voltage	U <sub>c</sub>	100 V dc	200 V dc	420 V dc	895 V dc	1000 V dc
Test Class according to IEC 61643-11 Ed.1 (2011-03)		II	II	I and II	I and II	I and II
Type according to EN 61643-11 (2012-10)		T2	T2	T1 and T2	T1 and T2	T1 and T2
Impulse discharge current (10/350 µs)	I <sub>imp</sub>	-	-	8 kA	7 kA	5 kA
Charge	Q	-	-	4 As	3,6 As	2,9 As
Nominal discharge current (8/20 µs)	I <sub>n</sub>	20 kA	20 kA	30 kA	30 kA	20 kA
Max. discharge current (8/20 µs)	I <sub>max</sub>	30 kA	30 kA	40 kA	40 kA	40 kA
Voltage protection level at a discharge current of:						
1 kA	U <sub>p</sub>	≤ 0,22 kV	≤ 0,42 kV	≤ 0,81 kV	≤ 1,20 kV	≤ 1,85 kV
5 kA	U <sub>p</sub>	≤ 0,28 kV	≤ 0,50 kV	≤ 1,00 kV	≤ 1,46 kV	≤ 2,25 kV
10 kA	U <sub>p</sub>	≤ 0,36 kV	≤ 0,60 kV	≤ 1,20 kV	≤ 1,58 kV	≤ 2,60 kV
20 kA	U <sub>p</sub>	≤ 0,50 kV	≤ 0,80 kV	≤ 1,35 kV	≤ 1,95 kV	≤ 2,85 kV
30 kA	U <sub>p</sub>	-	-	≤ 1,50 kV	≤ 2,15 kV	-
Response time	t <sub>a</sub>	≤ 25 ns				
End of Life		OCFM (Open Circuit Failure Mode)				
Short Circuit Current rating without backup protection (internal disconnecter)	I <sub>scrr</sub>	1000 A	1000 A	1000 A	500 A	200 A
Short Circuit Current rating with max. backup protection fuse	I <sub>scrr</sub>	30 kA	30 kA	30 kA	30 kA	30 kA
Max. back-up protection with fuse (DC)		200 A gPV	200 A gPV	200 A gPV	200 A gPV	200 A gPV
Follow current interrupt rating	I <sub>fi</sub>	NFC No Follow Current®				
Status indicator (indication of disconnecter operation)		3 colours with progressive performance indication				
Operating temperature range / Humidity		-40 ... +80 °C (extended) / 5% ... 95%				
Terminal - Conductor size		4-35 mm <sup>2</sup> flexible / 4-50 mm <sup>2</sup> semi rigid				
Busbar connections		fork-type busbar 16 mm <sup>2</sup>				
Mounting		indoor, 35 x 7,5 mm top hat DIN rail IEC/EN 60715				
Case material / Flammability grade		BMC / V-0 in accordance with UL 94				
Pollution degree / Degree of protection	PD	3	3	3	2	2
Degree of protection	IP	20 (built-in)				
Approximate weight		120 g	150 g	170 g	175 g	190 g
Dimensions: width		17,5 mm (1 module)				
3rd party testing		CTI test report				
GTIN (EAN)		8054890320306	8054890320313	8054890320290	8054890320320	8054890320337

Model L 7/30 DC ... with remote signal contact		60 t ff	110 t ff	230 t ff	600 t ff	1000 t ff
<b>CODE</b>		<b>210 602</b>	<b>210 603</b>	<b>210 600</b>	<b>210 606</b>	<b>210 610</b>
Remote signal contact		potential-free changeover contact				
Terminal - conductor size for remote signal contact		max. 1,5 mm <sup>2</sup> flexible				
Switching capacity remote signal contact		ac: 250 V / 0,5 A – dc: 125 V / 0,2 A; 75 V / 0,5 A				
GTIN (EAN)		8054890320610	8054890320627	8054890320559	8054890320634	8054890320641