

DC Power Electronic Capacitors (PEC) - Rectangular in Plastic Casing



FEATURES

- High impulse current rating
- Low inductance
- High reliability and lifetime expectation
- Resistance to heavy-duty shock vibration
- Non-polar dielectric
- Dry resin filled
- Weight reducing flame retardant plastic case (UL 94 V-0)
- Made for busbar connection

APPLICATIONS

- DC link capacitors
- Static converters for transportation
 - Heavy-haul locomotives
 - Light local trains
 - Trolley buses
 - Trams / streetcars
- Industrial converters
- DC supply equipment
- High voltage testing systems
- Impulse discharge energy
- Harmonic filtering

LINKS TO ADDITIONAL RESOURCES



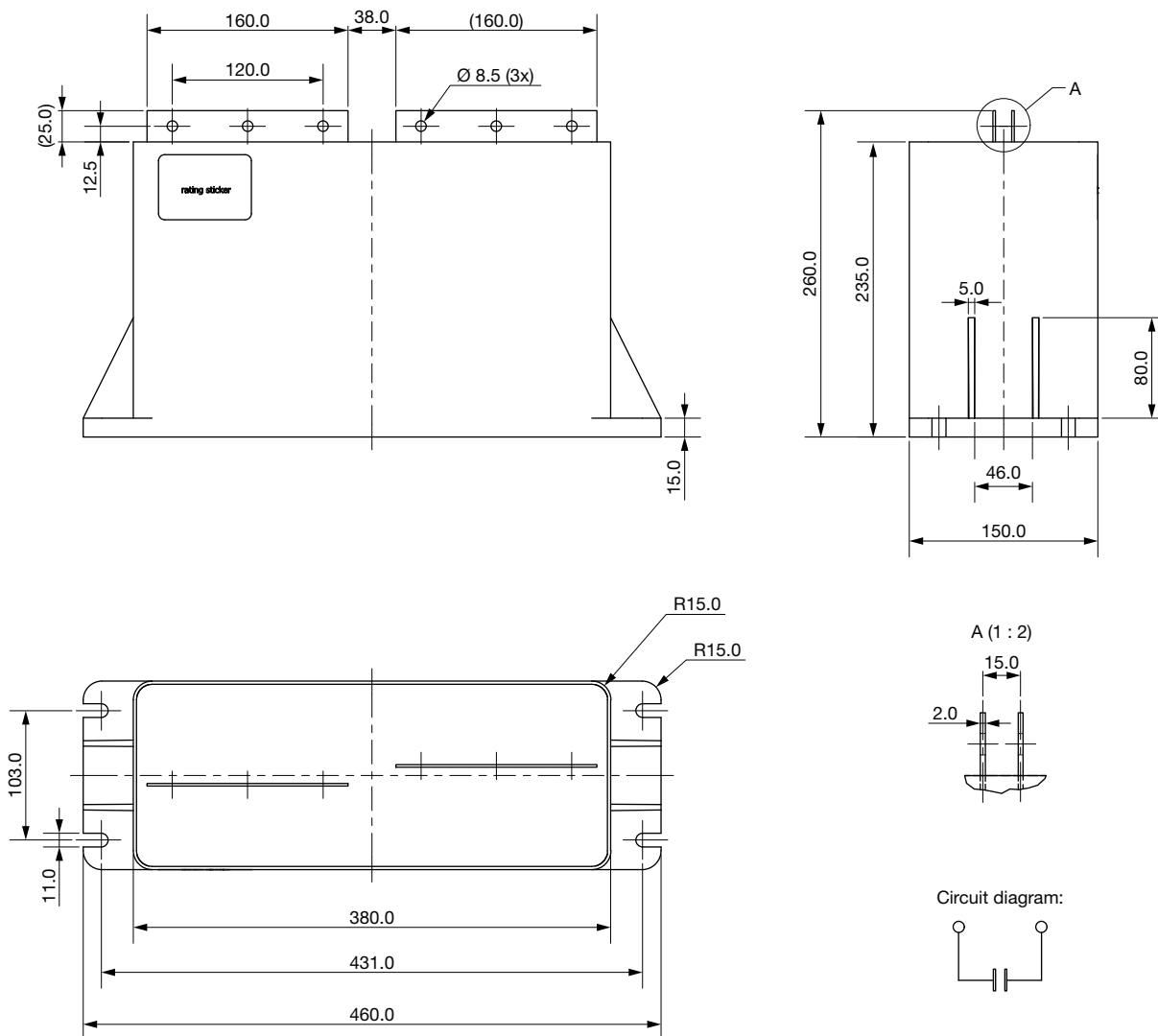
QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Rated DC voltage min.	450 V _{DC}
Rated DC voltage max.	3800 V _{DC}
Capacitance min.	110 µF
Capacitance max.	8000 µF
Capacitance tolerance	± 10 %
Technology	Metallized polypropylene film, self-healing
Dielectric dissipation factor	< 2 x 10 ⁻⁴
Operating temperature min.	-40 °C
Operating temperature max.	+85 °C (hotspot)
Inductance	Up to < 25 nH
Lifetime expectancy	> 100 000 h at U _N and < 70 °C hotspot
Reliability	< 200 FIT
Test voltage	U _{tt} = 1.5 x U _N /10 s; U _{tc} = 2 x U _i + 1000 V _{AC} /10 s
Casing	Plastic case UL 94 V-0
Filling	Dry resin
Standard	IEC 61071, IEC 61881-1
Maximum torque	M8 = 10 Nm M6 = 6 Nm
Product description	LNK xxx/yyy/za/w xxx = voltage; till 999 V in Volt, from 1000 V in kV yyy = C-value; till 999 µF in µF, from 1000 µ in mF z = case form a = terminals; B = bolt, I = female thread, F = busbar w = special version



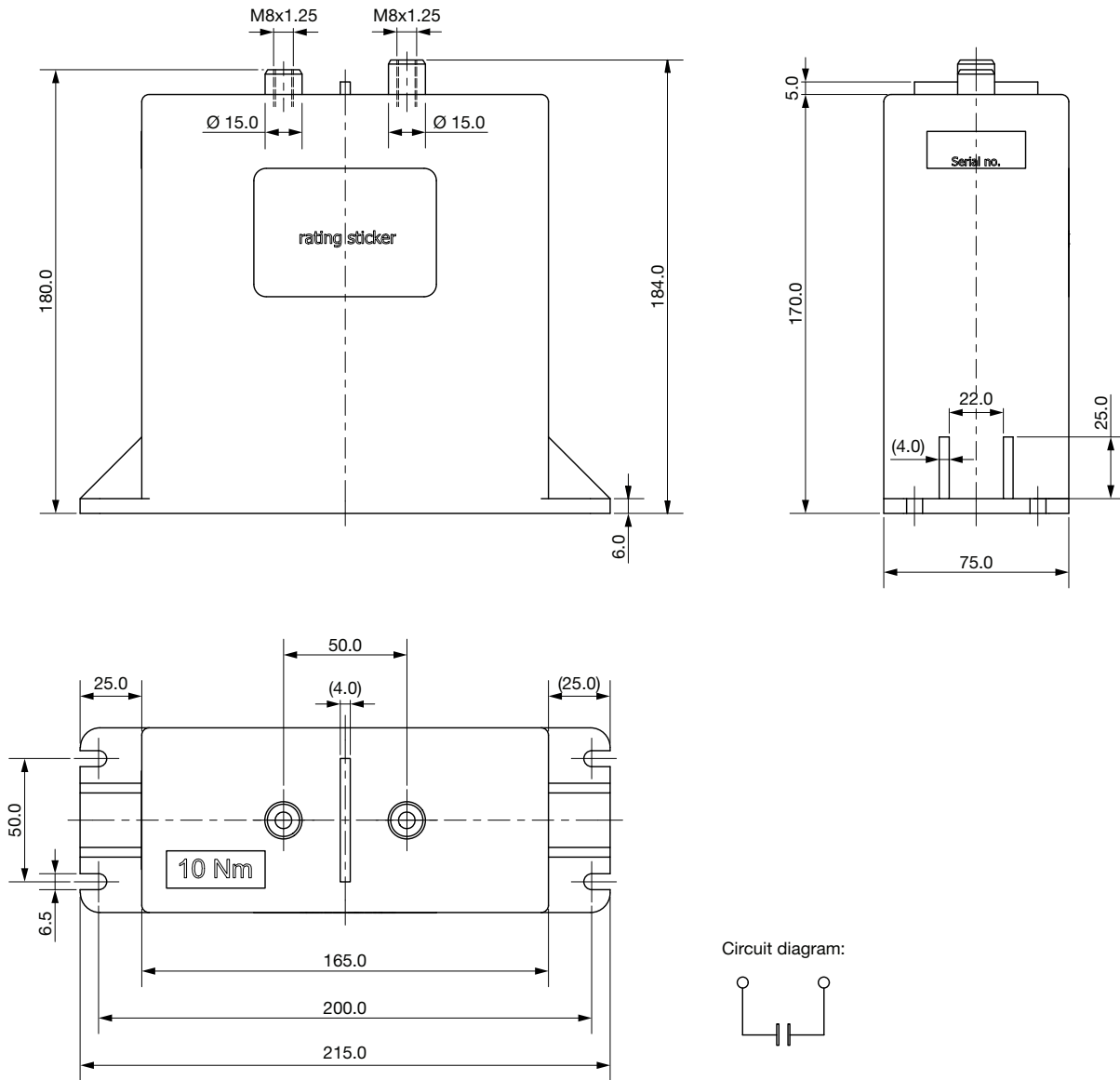
TYPE DESCRIPTION														
TYPE	C (μ F)	U (V _{DC})	L _S (nH)	R _S (m Ω)	R _{th} (K/W)	I _{max.} (A) AT 1 kHz	$\hat{i}$ (kA)	$\hat{i}_S$ (kA)	L (mm)	W (mm)	H (mm)	MOQ / PU	DRAWING NO.	ORDER CODE
LNK xxx/yyy/9B/w														
LNK 800/3.0/9B	3000	800	40	0.89	1.29	150	6.7	20.2	225	130	168	4 / 4	9	101164
LNK 1.0/1.59/9B	1590	1000	40	0.78	1.19	150	4.9	14.7	225	130	168	4 / 4	9	101165
LNK 1.1/1.33/9B	1330	1100	40	0.81	1.26	150	4.5	13.4	225	130	168	4 / 4	9	101166
LNK 1.2/1.14/9B	1140	1200	40	0.85	1.28	150	4.1	12.4	225	130	168	4 / 4	9	101167
LNK 1.4/850/9B	850	1400	40	0.93	1.34	140	3.6	10.7	225	130	168	4 / 4	9	101168
LNK 1.6/600/9B	600	1600	40	1.03	1.41	135	3.0	9.1	225	130	168	4 / 4	9	101169
LNK 1.8/480/9B	480	1800	40	1.12	1.42	125	2.7	8.1	225	130	168	4 / 4	9	101170
LNK 2.0/400/9B	400	2000	40	1.20	1.44	120	2.4	7.3	225	130	168	4 / 4	9	101171
LNK 2.2/330/9B	330	2200	40	1.22	1.54	125	2.2	6.7	225	130	168	4 / 4	9	101172
LNK 2.4/260/9B	260	2400	40	0.85	1.36	150	4.1	12.2	225	130	168	4 / 4	9	101173
LNK 2.7/195/9B	195	2700	40	0.88	1.42	150	3.6	10.8	225	130	168	4 / 4	9	101174
LNK 2.8/195/9B	195	2800	40	0.88	1.42	150	3.6	10.8	225	130	168	4 / 4	9	101175
LNK 3.2/135/9B	135	3200	40	1.05	1.42	130	3.0	9.0	225	130	168	4 / 4	9	101176
LNK 3.5/110/9B	110	3500	40	1.09	1.53	120	2.7	8.1	225	130	168	4 / 4	9	101177
LNK xxx/yyy/7I/w														
LNK 450/2.0/7I	2000	450	25	0.65	1.41	150	7.1	21.3	165	75	170	8 / 8	7	101178
LNK 600/1.45/7I	1450	600	25	0.69	1.38	150	6.1	18.2	165	75	170	8 / 8	7	101179
LNK 800/1.2/7I	1200	800	25	0.74	1.49	145	5.3	15.9	165	75	170	8 / 8	7	101180
LNK 1.1/775/7I	775	1100	25	0.84	1.54	130	4.3	12.8	165	75	170	8 / 8	7	101181
LNK 1.3/535/7I	535	1300	25	0.94	1.57	140	3.5	10.6	165	75	170	8 / 8	7	101182
LNK 1.65/330/7I	330	1650	25	1.09	1.64	110	2.8	8.5	165	75	170	8 / 8	7	101183
LNK 1.85/255/7I	255	1850	25	1.2	1.66	100	2.5	7.5	165	75	170	8 / 8	7	101184
LNK 2.0/220/7I	220	2000	25	1.24	1.63	100	2.4	7.1	165	75	170	8 / 8	7	101185
LNK 2.2/180/7I	180	2200	25	1.33	1.65	95	2.1	6.4	165	75	170	8 / 8	7	101186
LNK xxx/yyy/5F/w														
LNK 700/8.0/5F/w	8000	700	55	0.42	0.66	300	15.8	47.3	380	150	235	4 / 4	5	101459
LNK 900/5.0/5F/w	5000	900	55	0.49	0.76	300	12.1	36.4	380	150	235	4 / 4	5	101460
LNK 1.0/4.2/5F/w	4200	1000	55	0.53	0.75	250	11.3	33.9	380	150	235	4 / 4	5	101461
LNK 1.1/3.5/5F/w	3500	1100	55	0.45	0.75	250	12.0	35.9	380	150	235	4 / 4	5	101462
LNK 1.2/3.6/5F/w	3600	1200	55	0.56	0.74	230	10.7	32.0	380	150	235	4 / 4	5	101463
LNK 1.35/2.65/5F/w	2650	1350	55	0.65	0.79	220	8.5	25.5	380	150	235	4 / 4	5	101465
LNK 1.6/2.0/5F/w	2000	1600	55	0.68	0.75	200	8.2	24.7	380	150	235	4 / 4	5	101468
LNK 1.8/1.6/5F/w	1600	1800	55	0.75	0.76	200	7.2	21.7	380	150	235	4 / 4	5	101470
LNK 2.1/1.0/5F/w	1000	2100	55	0.68	0.80	200	6.6	19.9	380	150	235	4 / 4	5	101472
LNK 2.2/850/5F/w	850	2200	55	0.73	0.84	200	5.9	17.8	380	150	235	4 / 4	5	101473
LNK 2.7/650/5F/w	650	2700	55	0.59	0.74	220	9.7	29.2	380	150	235	4 / 4	5	101475
LNK 2.9/500/5F/w	500	2900	55	0.66	0.80	200	8.2	24.6	380	150	235	4 / 4	5	101476
LNK 3.2/500/5F/w	500	3200	55	0.66	0.75	200	8.4	25.3	380	150	235	4 / 4	5	101477
LNK 3.6/300/5F/w	300	3600	55	0.86	0.87	150	6.0	18.1	380	150	235	4 / 4	5	101479
LNK 3.8/300/5F/w	300	3800	55	0.82	0.82	160	6.4	19.2	380	150	235	4 / 4	5	101480



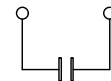
DIMENSIONS in millimeters



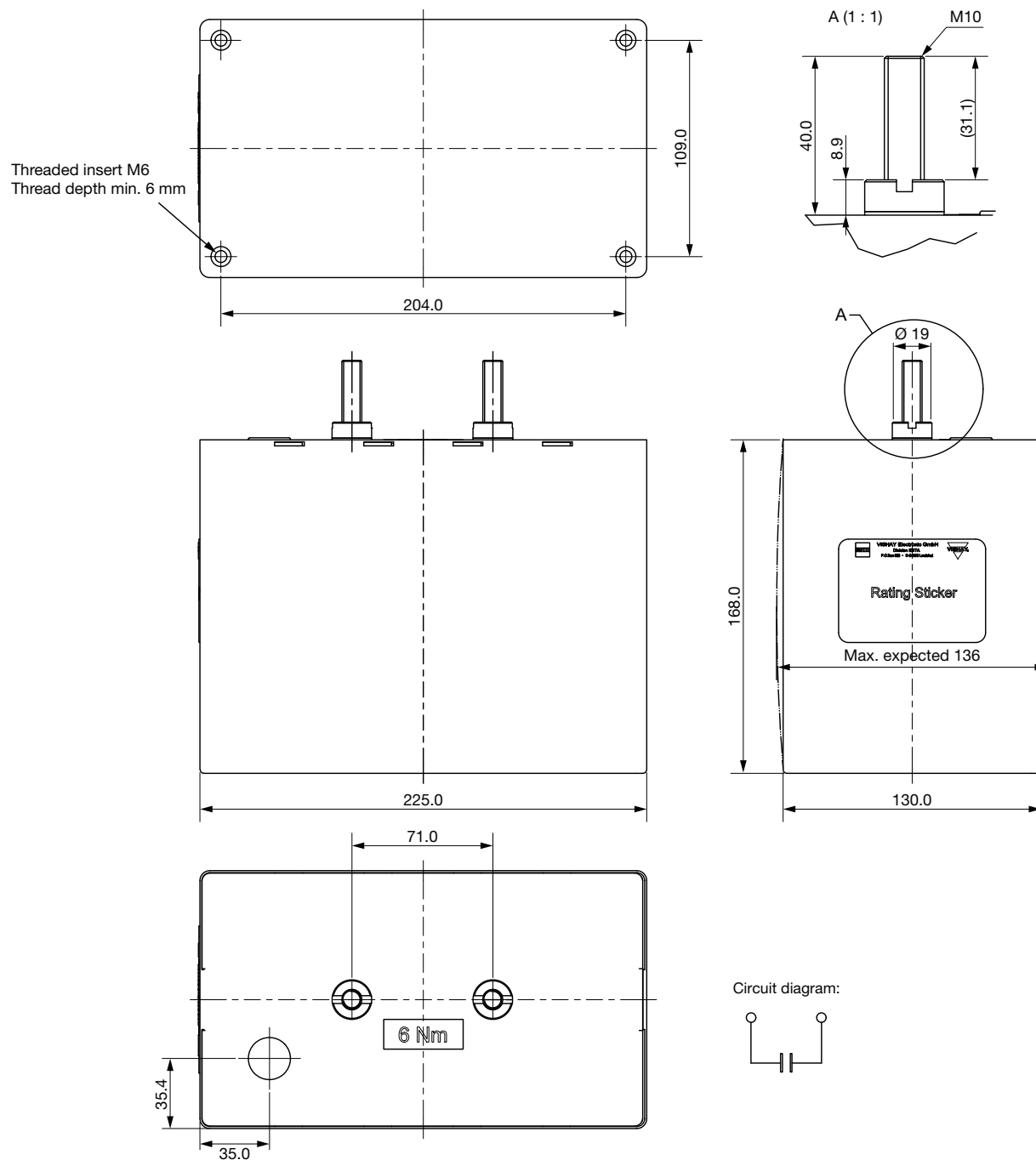
Drawing 5



Circuit diagram:



Drawing 7



Drawing 9

Contact Us

Other voltage, current, and capacitance values are available on request without additional cost and lead time for the individual design.



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