

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



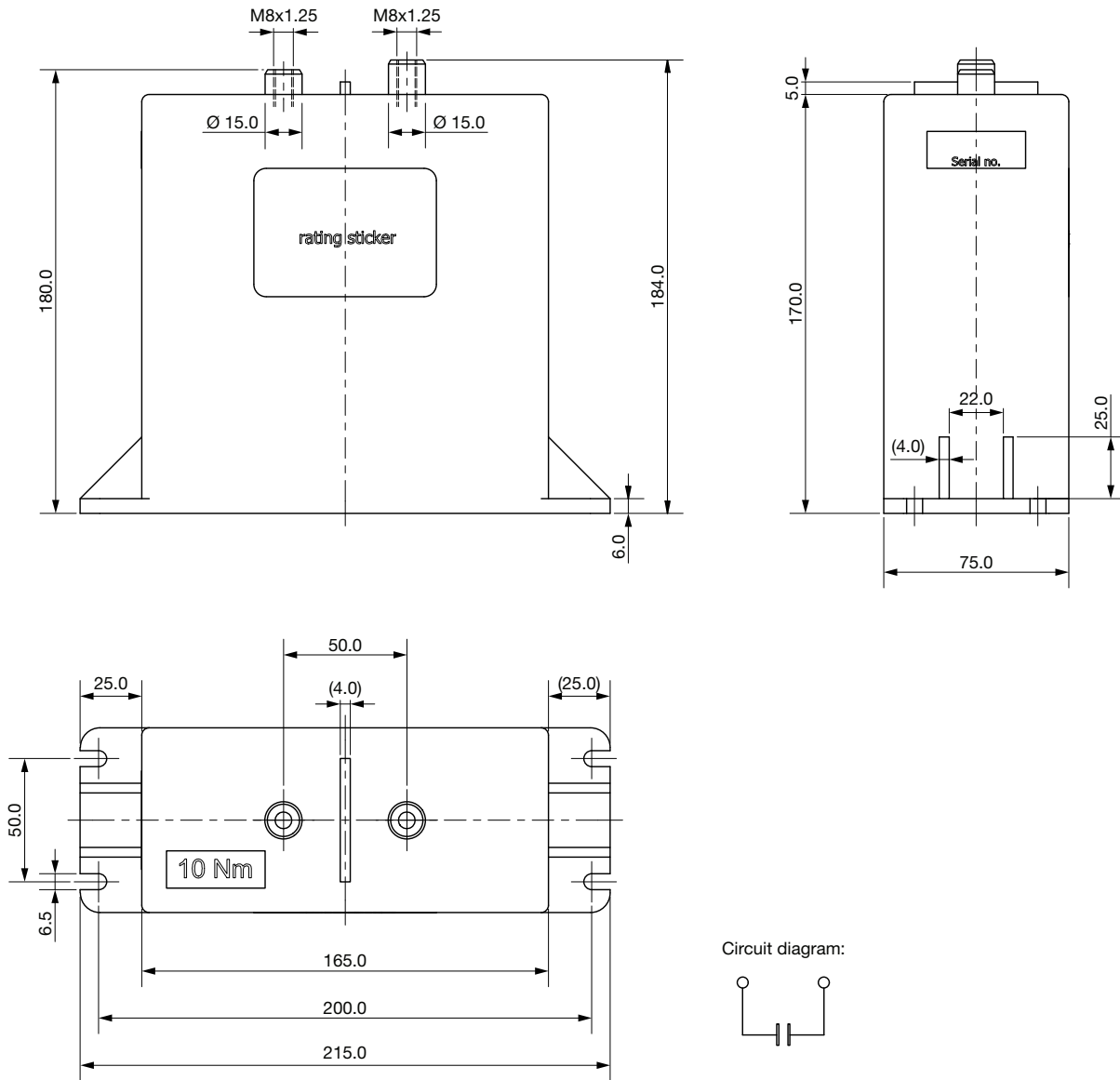
QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Rated DC voltage min.	450 V _{DC}
Rated DC voltage max.	3500 V _{DC}
Capacitance min.	110 µF
Capacitance max.	3000 µF
Capacitance tolerance	± 10 %
Technology	Metallized polypropylene film, self-healing
Dielectric dissipation factor	< 2 x 10 ⁻⁴
Operating temperature 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



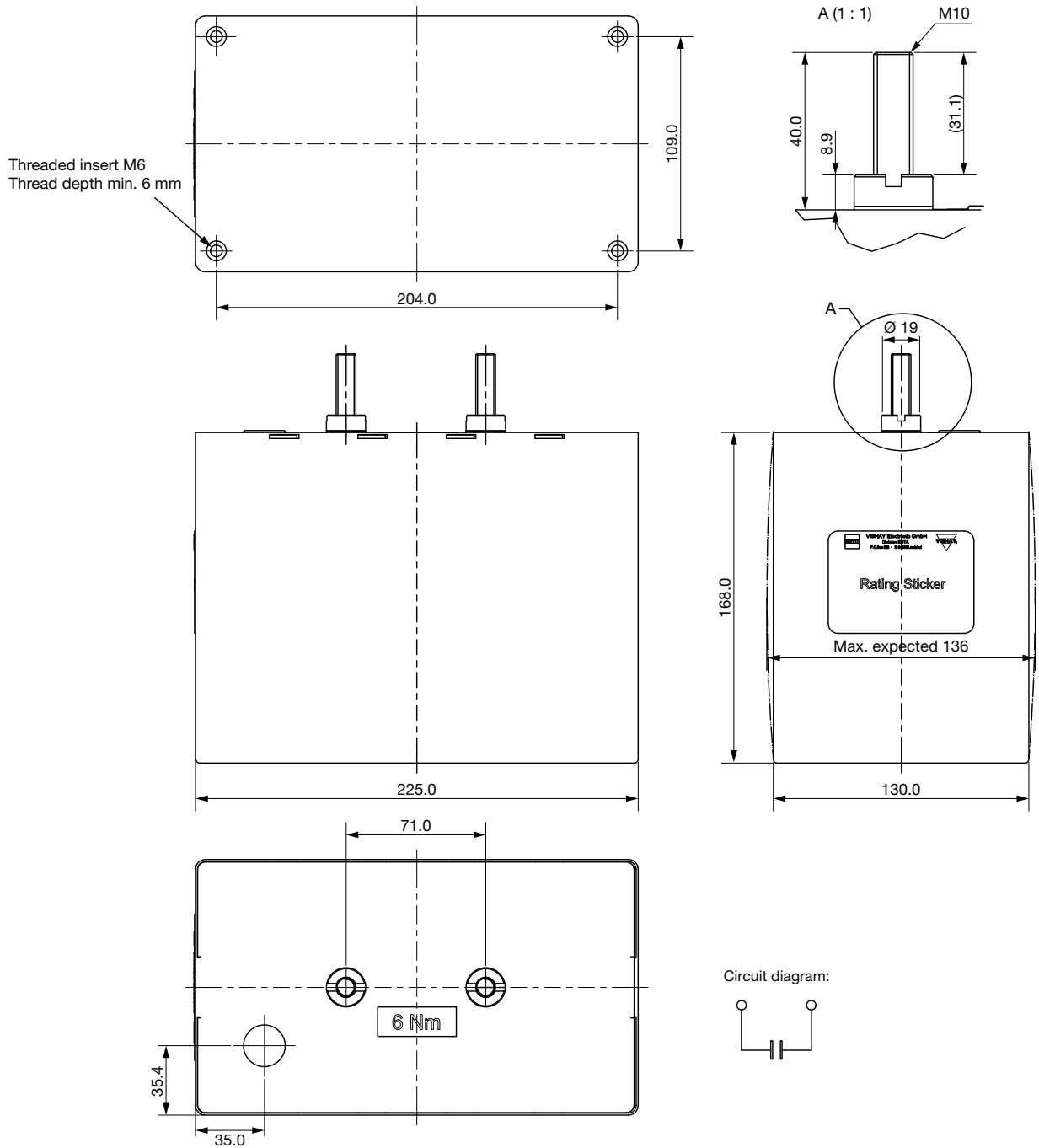
TYPE DESCRIPTION														
TYPE	C (μ F)	U (V _{DC})	L _S (nH)	R _S (m Ω)	R _{th} (K/W)	I _{max.} (A) AT 1 kHz	\hat{i} (kA)	\hat{i}_S (kA)	L (mm)	W [mm]	H [mm]	MOQ / PU	DRAWING NO.	ORDER CODE
LNK xxx/yyy/9B/w														
LNK 800/3.0/9B	3000	800	40	0.89	1.29	150	6.7	20.2	225	130	168	4 / 4	9	83323
LNK 1.0/1.59/9B	1590	1000	40	0.78	1.19	150	4.9	14.7	225	130	168	4 / 4	9	83322
LNK 1.1/1.33/9B	1330	1100	40	0.81	1.26	150	4.5	13.4	225	130	168	4 / 4	9	83321
LNK 1.2/1.14/9B	1140	1200	40	0.85	1.28	150	4.1	12.4	225	130	168	4 / 4	9	83320
LNK 1.4/850/9B	850	1400	40	0.93	1.34	140	3.6	10.7	225	130	168	4 / 4	9	83318
LNK 1.6/600/9B	600	1600	40	1.03	1.41	135	3.0	9.1	225	130	168	4 / 4	9	83650
LNK 1.8/480/9B	480	1800	40	1.12	1.42	125	2.7	8.1	225	130	168	4 / 4	9	83319
LNK 2.0/400/9B	400	2000	40	1.20	1.44	120	2.4	7.3	225	130	168	4 / 4	9	83324
LNK 2.2/330/9B	330	2200	40	1.22	1.54	125	2.2	6.7	225	130	168	4 / 4	9	83325
LNK 2.4/260/9B	260	2400	40	0.85	1.36	150	4.1	12.2	225	130	168	4 / 4	9	83326
LNK 2.7/195/9B	195	2700	40	0.88	1.42	150	3.6	10.8	225	130	168	4 / 4	9	83327
LNK 2.8/195/9B	195	2800	40	0.88	1.42	150	3.6	10.8	225	130	168	4 / 4	9	83328
LNK 3.2/135/9B	135	3200	40	1.05	1.42	130	3.0	9.0	225	130	168	4 / 4	9	83329
LNK 3.5/110/9B	110	3500	40	1.09	1.53	120	2.7	8.1	225	130	168	4 / 4	9	83330
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	83345
LNK 600/1.45/7I	1450	600	25	0.69	1.38	150	6.1	18.2	165	75	170	8 / 8	7	83344
LNK 800/1.2/7I	1200	800	25	0.74	1.49	145	5.3	15.9	165	75	170	8 / 8	7	83643
LNK 1.1/775/7I	775	1100	25	0.84	1.54	130	4.3	12.8	165	75	170	8 / 8	7	83310
LNK 1.3/535/7I	535	1300	25	0.94	1.57	140	3.5	10.6	165	75	170	8 / 8	7	83312
LNK 1.65/330/7I	330	1650	25	1.09	1.64	110	2.8	8.5	165	75	170	8 / 8	7	83313
LNK 1.85/255/7I	255	1850	25	1.2	1.66	100	2.5	7.5	165	75	170	8 / 8	7	83314
LNK 2.0/220/7I	220	2000	25	1.24	1.63	100	2.4	7.1	165	75	170	8 / 8	7	83315
LNK 2.2/180/7I	180	2200	25	1.33	1.65	95	2.1	6.4	165	75	170	8 / 8	7	83316



DIMENSIONS in millimeters



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.



Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.