

Power line filters for three-phase systems**Rated voltage 480/275 V~, 50/60 Hz****Rated current 8 bis 150 A****Construction**

- Three-line filter
- Metal case

**Features**

- Excellent price/performance ratio
- Ultra-compact design, low weight
- Low leakage current
- Easy to install
- Construction complies with
EN 133200, UL 1283, CSA 22.2 No. 8 1986
- Optimized for long motor cables and operation
under full loads
- UL and CSA approval for 8 to 50 A,
for 66 to 150 A pending

Applications

- Frequency converters for motor drives, e.g.
 - elevators
 - pumps
 - traction systems
 - HVAC systems (heating, ventilation and air conditioning)
- Power supplies

Terminals

Safe-to-touch terminal blocks

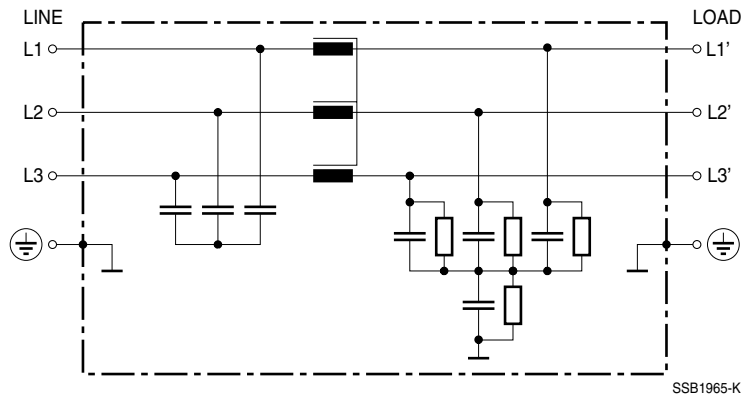
Marking

Marking on component:

Manufacturer's logo, ordering code,
rated voltage, rated current,
rated temperature, climatic category, date code

Minimum marking on packaging:

Manufacturer's logo, ordering code

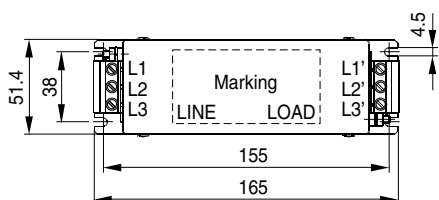
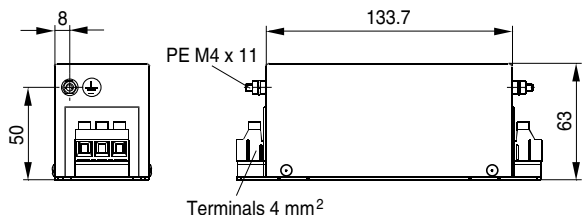
Typical circuit diagrams

Technical data

Rated voltage V_R	480/275 VAC, 50/60 Hz
Rated current I_R	Referred to 40 °C ambient temperature
Test voltage V_T	2121 VDC, 2 s (line/line) 2700 VDC, 2 s (line/case)
Overload capability	1,5 · I_R for 3 min per hour or 2,5 · I_R for 30 s per hour
Leakage current I_{leak}	at 480 VAC, 50 Hz
Climatic category	25/085/21 (– 25 °C/+85 °C/21 days damp heat test) in accordance with EN 60068-1

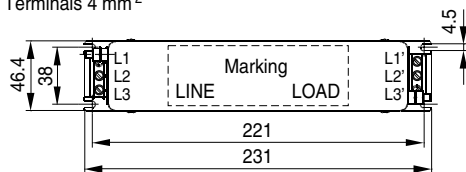
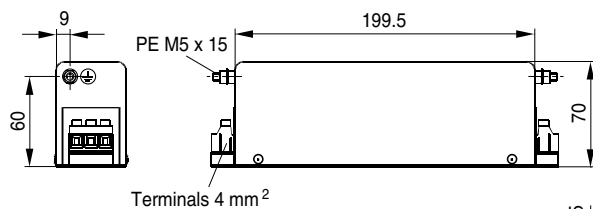
Characteristics and ordering codes

I_R A	Terminal cross section mm ²	I_{leak} typ ¹⁾ mA	R_{typ} mΩ	Approx weight kg	Ordering code	Approvals  	
8	4	12	16	0.58	B84143A0008R105	x	x
16	4	14	9	0.90	B84143A0016R105	x	x
25	4	14	5	1.10	B84143A0025R105	x	x
36	10	14	4	1.75	B84143A0036R105	x	x
50	10	14	2	1.75	B84143A0050R105	x	x
66	16	14	1.5	2.7	B84143A0066R105	UL and CSA pending	
90	35	16	1.1	4.2	B84143A0090R105		
120	35	16	0.90	4.9	B84143A0120R105		
150	50	16	0.55	5.3	B84143A0150R105		

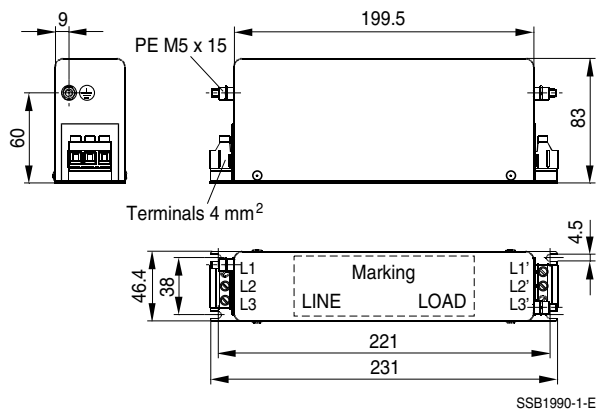
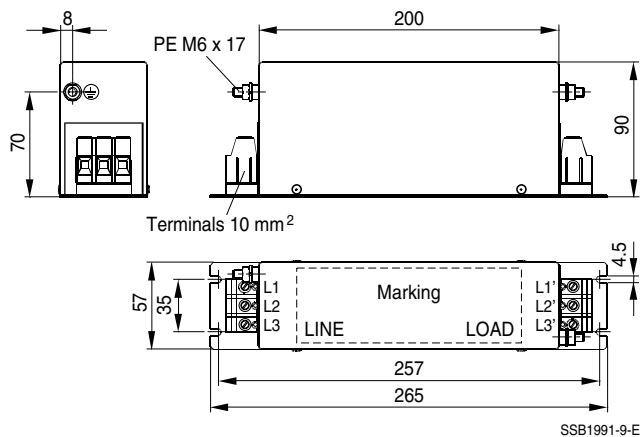
¹⁾ At rated operation

Dimensional drawings
B84143A0008R105


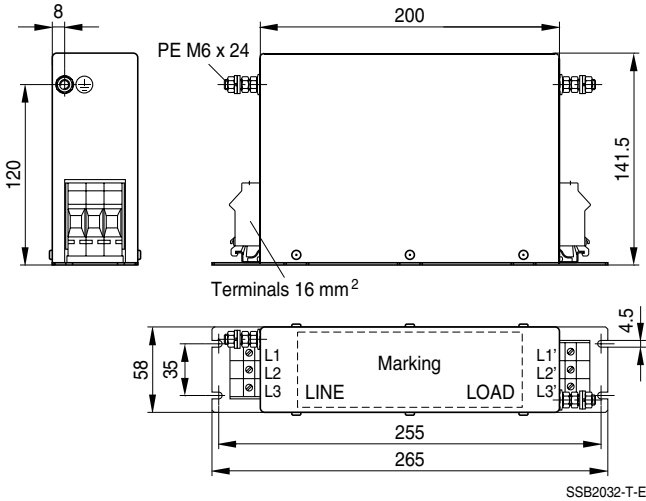
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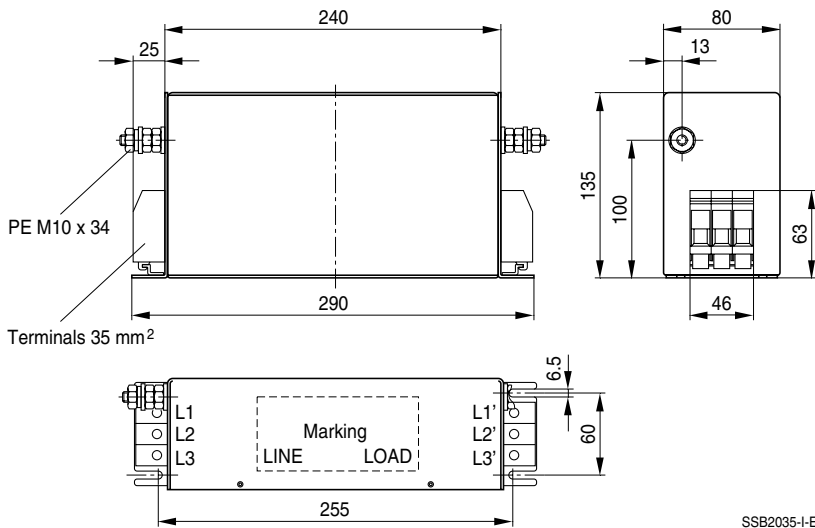
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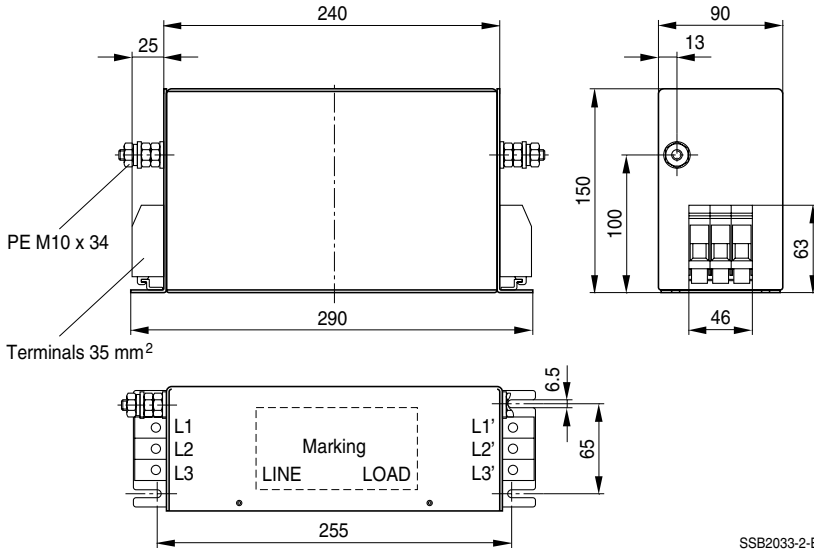
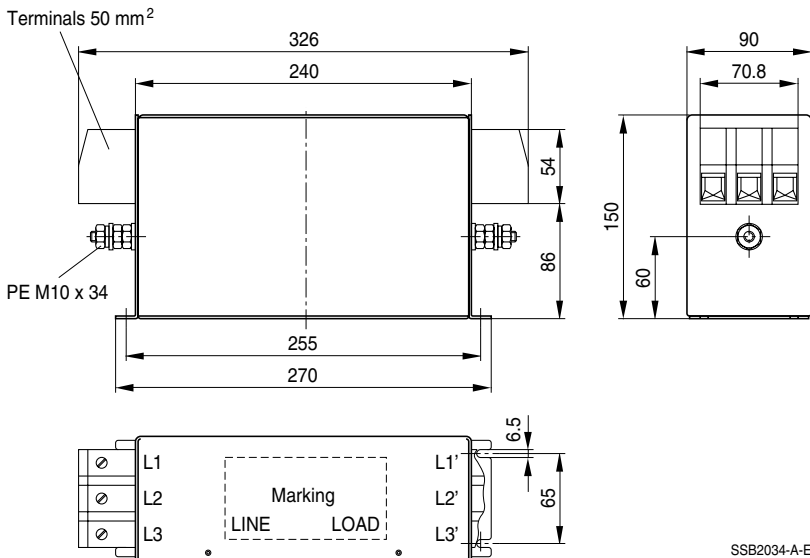
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B84143A0036R105, ...A0050R105


B84143A0066R105



B84143A0090R105

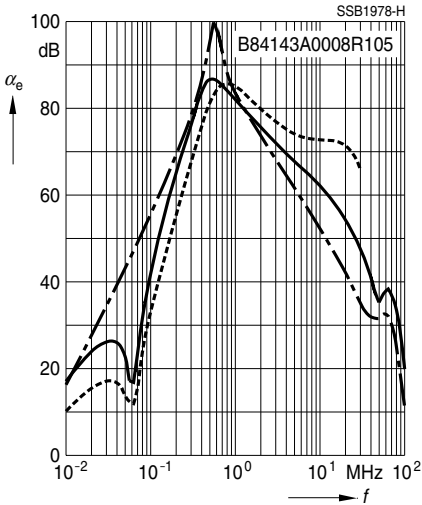


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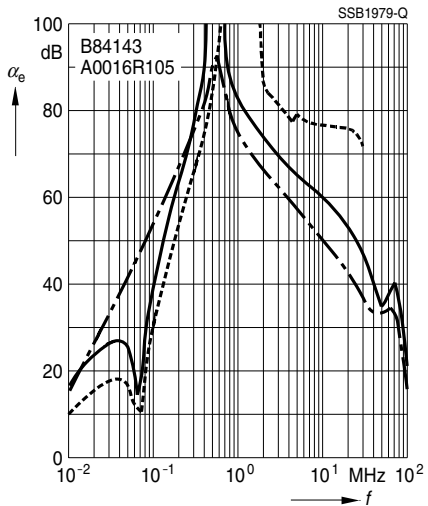
Insertion loss (typical values at $Z = 50 \Omega$)

- unsymmetrical, adjacent branches terminated
- - - - - common mode, all branches in parallel (asymmetrical)
- - - - - differential mode (symmetrical)

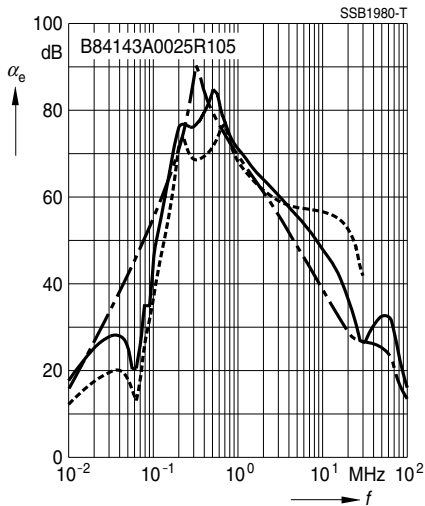
8 Ampere



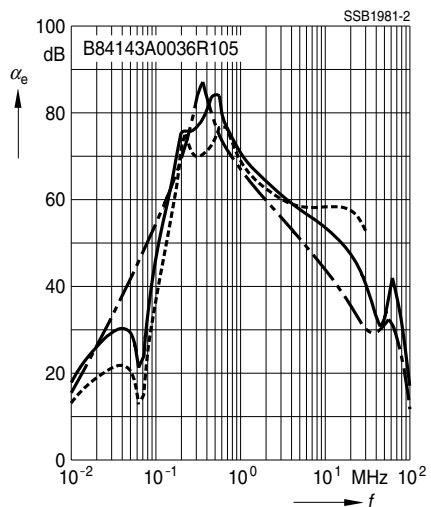
16 Ampere



25 Ampere



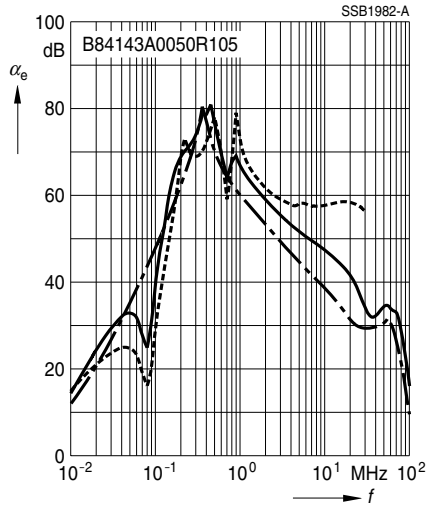
36 Ampere



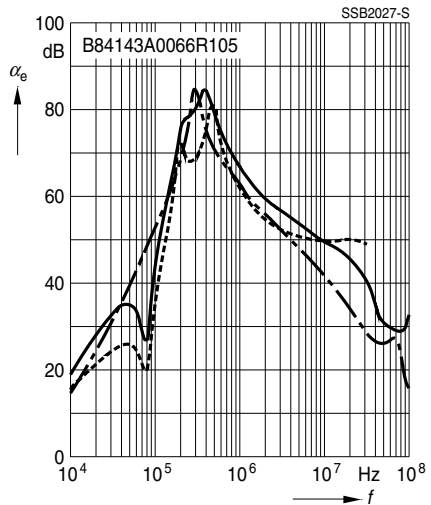
Insertion loss (typical values at $Z = 50 \Omega$)

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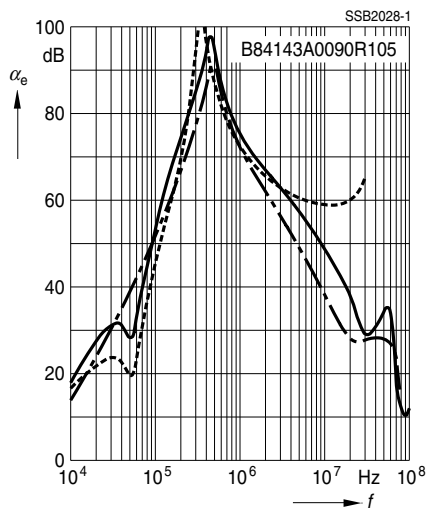
50 Ampere



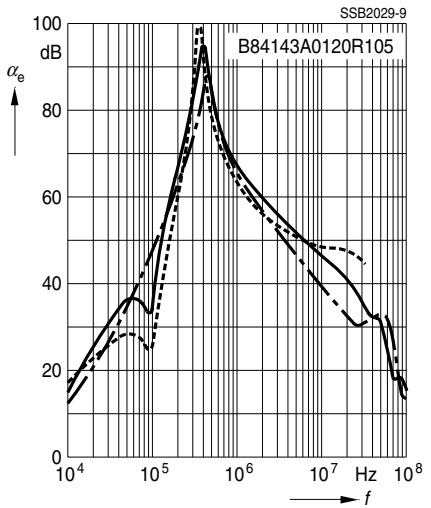
66 Ampere



90 Ampere



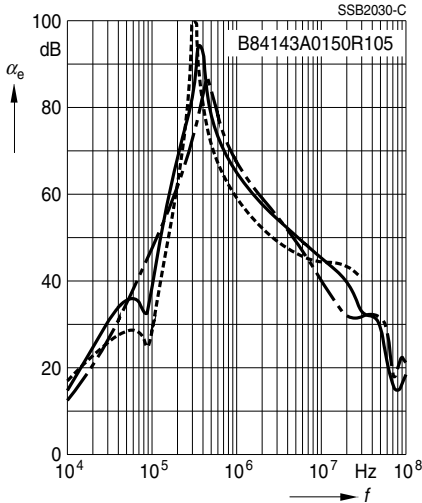
120 Ampere



Insertion loss (typical values at $Z = 50 \Omega$)

- unsymmetrical, adjacent branches terminated
- - - - - common mode, all branches in parallel (asymmetrical)
- - - - - differential mode (symmetrical)

150 Ampere



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