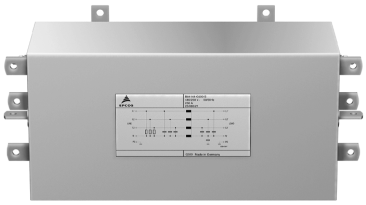
Power line filters for three-phase systems
Rated voltage 440/250 V~, 50/60 Hz
Rated current 16 to 1600 A



Construction

- Four-line filter
- Metal case
- Threaded bushes at end faces for RF-tight installation

Features

- Low leakage current
- Easy to install
- Degree of protection up to 180 A: IP 20[1)]
- Space-saving design
- Design based on EN 133200, UL 1283, CSA 22.2 No.8 1986

Applications

- General-purpose application in power electronics
- UPS
- Wind farms
- For machine tools, textile and packaging machines

Terminals

- Safe-to-touch terminal blocks for filters up to 180 A
- Busbars for filters 250 to 1600 A

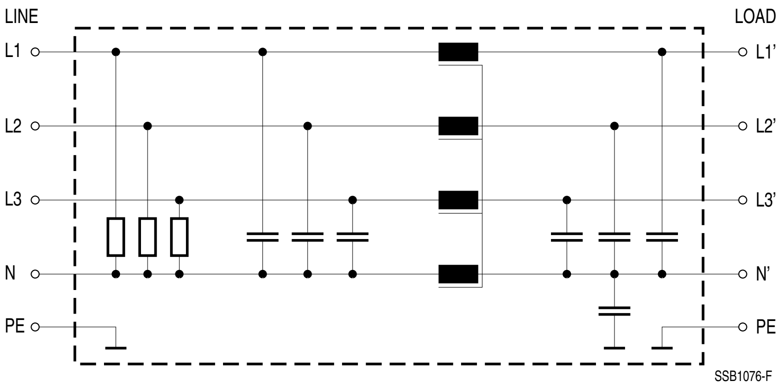
Marking

Marking on component:
Manufacturer’s logo, ordering code,
rated voltage, rated current,
date code

Minimum marking on packaging:
Manufacturer’s logo, ordering code

1) In accordance with IEC 60529: 1989; EN 60529: 1991; DIN VDE 0470-1

Typical circuit diagram



Technical data

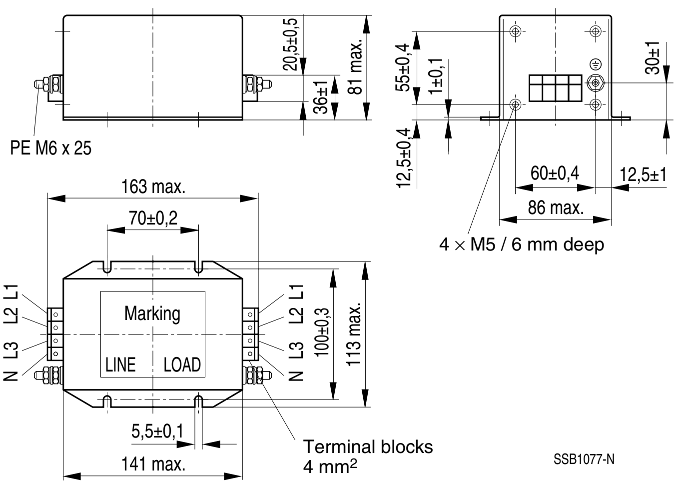
Rated voltage V_R	440/250 V~, 50/60 Hz
Rated current I_R	Referred to 40 °C ambient temperature
Test voltage V_P	1770 V–, 2 s (line/line) 2700 V–, 2 s (lines/case), for 16 … 50 A 2550 V–, 2 s (lines/case), for 80 … 180 A 2121 V–, 2 s (lines/case), for 250 … 1600 A
Overload capability	1,5 · I_R for 3 min per hour or 2,5 · I_R für 30 s per hour
Leakage current I_{leak}	at 400 V~, 50 Hz
Climatic category	25/100/21 (– 25 °C/+100 °C/21 days damp heat test) in accordance with EN 60068-1

Characteristics and ordering codes

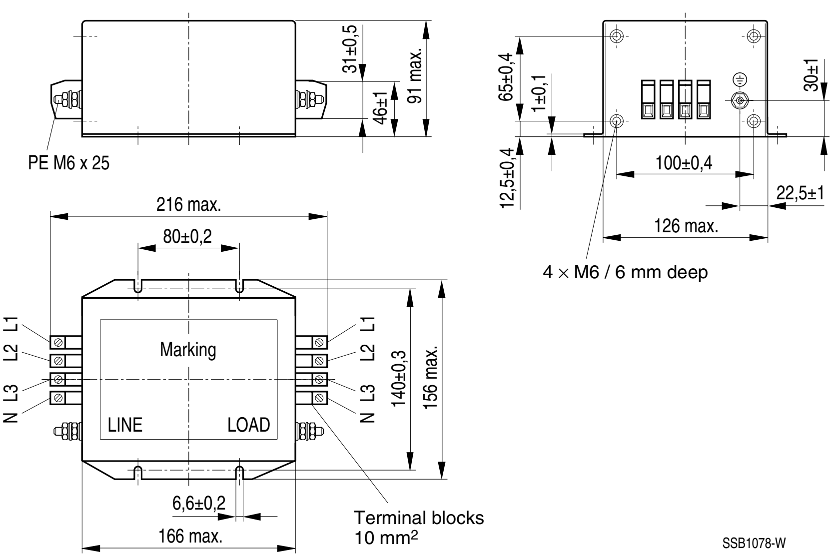
I_R A	Terminal cross section mm^2	I_{leak} mA	R_{typ} mΩ	P_V W	Approx. weight kg	Ordering code
16	4	< 3,5	10	8	2,2	B84144-A16-R
25	10	< 3,5	6	11	3,7	B84144-A25-R
36	10	< 3,5	3,5	14	3,7	B84144-A36-R
50	10	< 6	1,3	10	4,0	B84144-A50-R
80	25	< 6	0,7	13	9,5	B84144-A80-R
120	50	< 6	0,5	22	10	B84144-A120-R
150	50	< 6	0,35	24	10	B84144-A150-R
180	95	< 6	0,25	24	13	B84144-A180-R
250	Busbars	< 6	0,095	18	32	B84144-G250-S
500		< 6	0,060	45	53	B84144-G500-S
1000		< 6	0,030	90	140	B84144-G1000-S
1600		< 6	0,020	150	185	B84144-G1600-S

Dimensional drawings

B84144-A16-R



B84144-A25-R … B84144-A50-R



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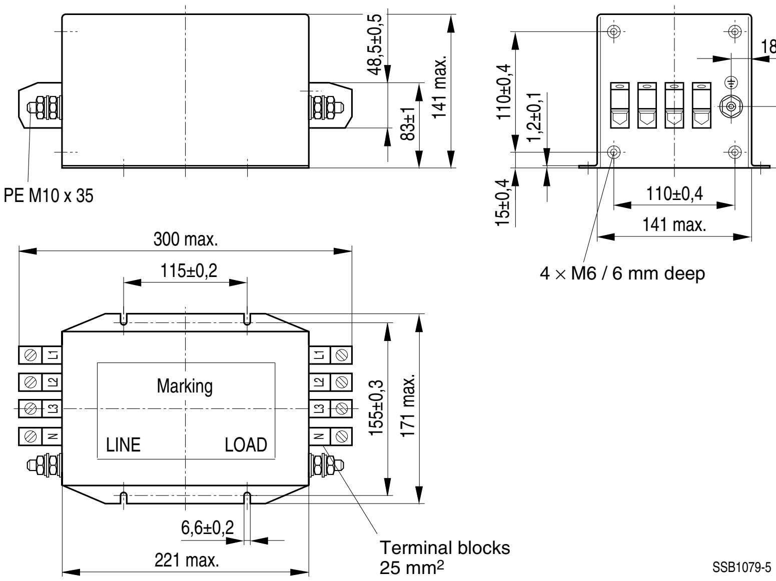
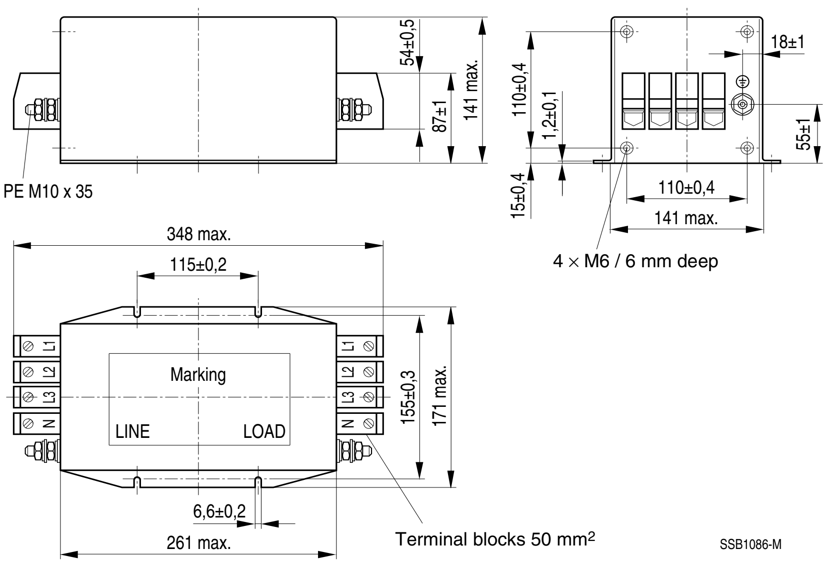
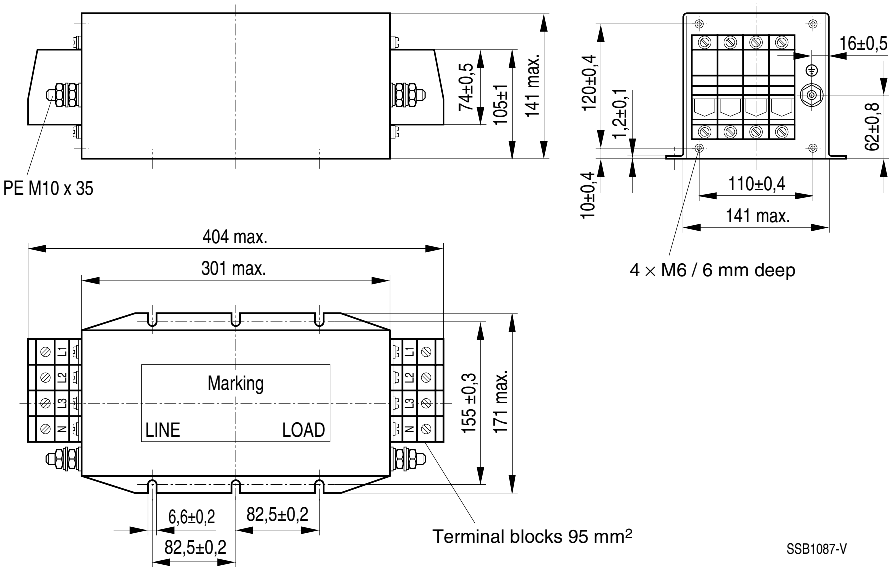


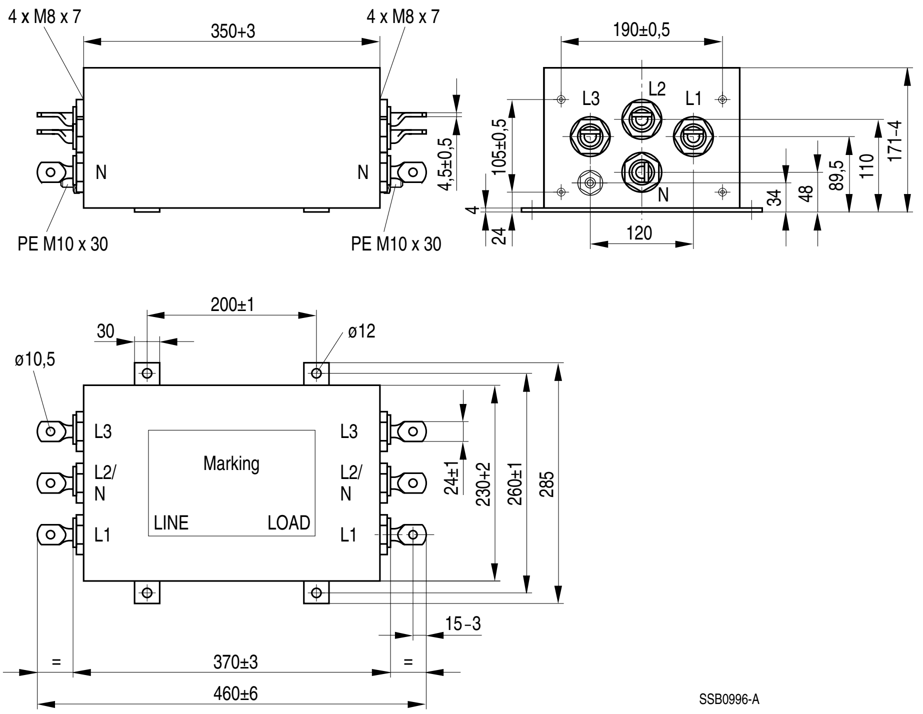
B84144-A120-R, B84144-A150-R



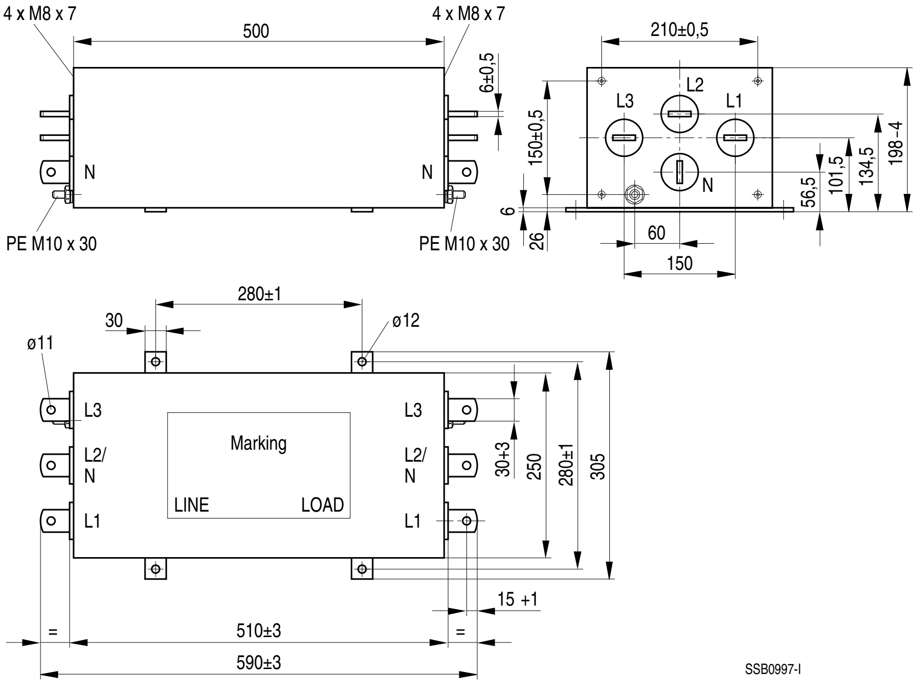
B84144-A180-R



B84144-G250-S



B84144-G500-S



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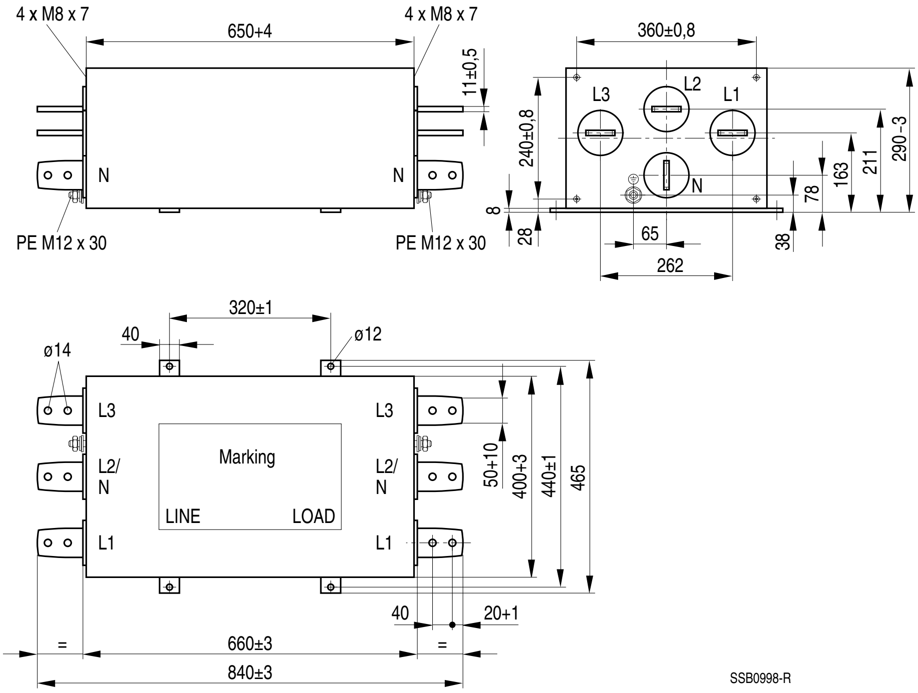
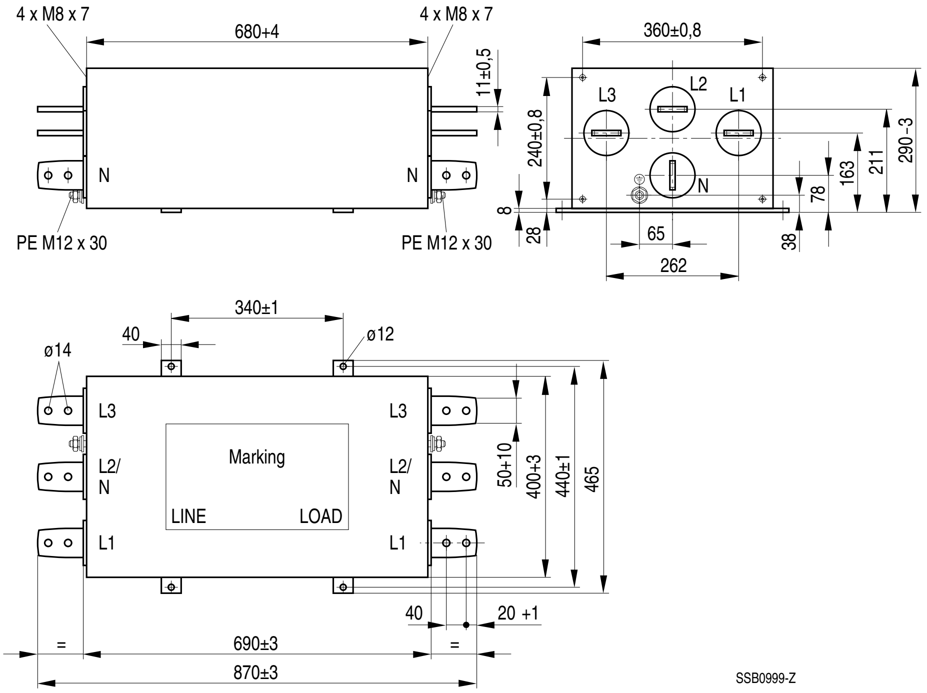


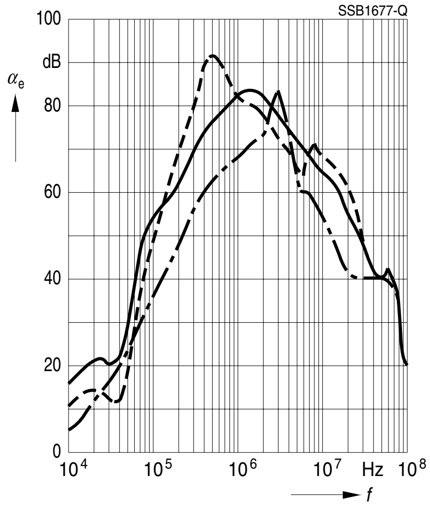
Maßbild B84144-G1600-S



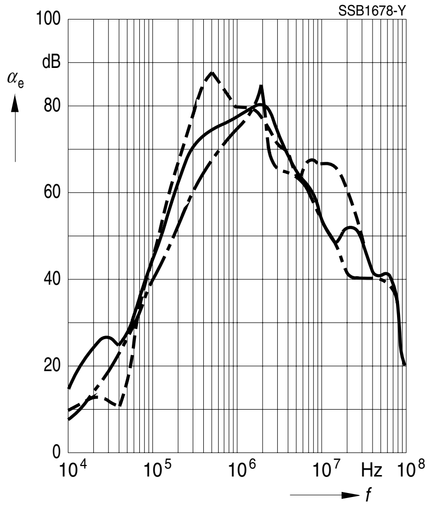
Insertion loss (typical values at Z = 50 Ω)

———— unsymmetrical, adjacent branches terminated
–·–·–·–·– common mode, all branches in parallel (asymmetrical)
– – – – – differential mode (symmetrical)

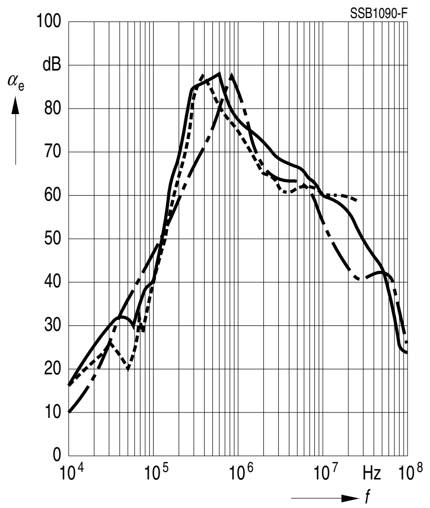
B84144-A16-R … -A36-R



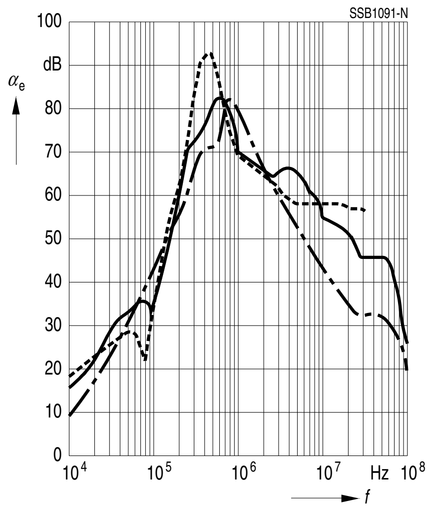
B84144-A50-R



B84144-A80-R



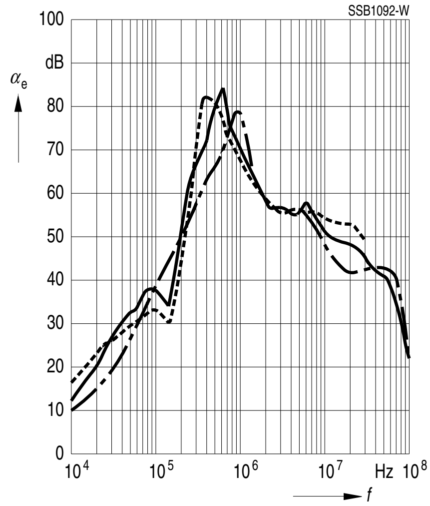
B84144-A120 … -A150-R



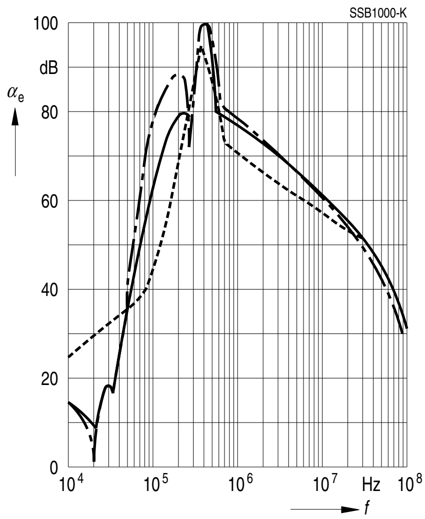
Insertion loss (typical values at Z = 50 Ω)

——————— unsymmetrical, adjacent branches terminated
– · – · – · – · – · – common mode, all branches in parallel (asymmetrical)
– – – – – – – – differential mode (symmetrical)

B84144-A180-R



B84144-G250-S … -G1600-S



Herausgegeben von EPCOS AG
Unternehmenskommunikation, Postfach 80 17 09, 81617 München, DEUTSCHLAND
☎ ++49 89 636 09, FAX (0 89) 636-2 26 89

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