

**Sine-wave filters for three-phase systems**
**Rated voltage 440/250 V~, 50/60 Hz**
**Rated current 6 to 35 A**

**Construction**

- Three-line filter
- Metal case

**Features**

- Easy to install
- Space-saving design
- Degree of protection: IP 20<sup>1)</sup>
- Motor cables of more than 100 m possible
- Minimized motor noise and eddy current losses in the motor windings

**Applications**

- Sine-wave output filters for frequency converters in variable speed drivers, solar systems, UPS

**Terminals**

- Safe-to-touch terminal blocks

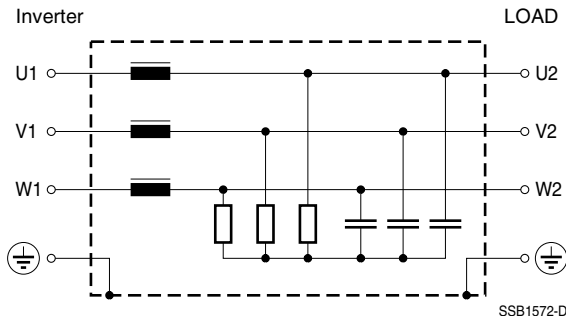
**Marking**

Marking on component:

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

Minimum marking on packaging:

Manufacturer's logo, ordering code

**Typical circuit diagram**


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

**Technical data**

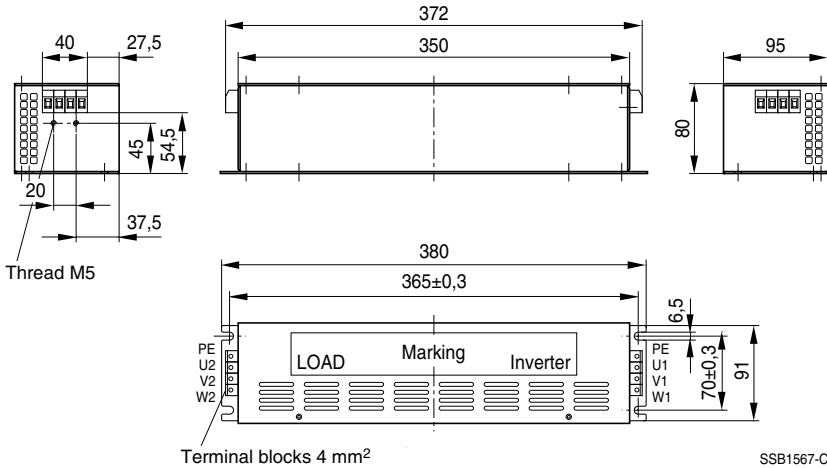
Rated voltage $V_R$	440/250 V~, 50/60 Hz
Rated current $I_R$	referred to 40 °C ambient temperature
Test voltage $V_P$	1770 V~, 2 s (line/line) 2700 V~, 2 s (lines/case)
Overload capability	$1,5 \cdot I_R$ for 1 min per hour
Converter output frequency $f_M$	0 ... 100 Hz
Converter pulse frequency $f_P$	6 ... 16 kHz
Voltage drop (input to output) $\Delta V$	at $I_R$ , 50 Hz
Power dissipation $P_V$	typical value
Capacitive reactive current $I_q$	at 230 V, 50 Hz (typical value)
Climatic category	25/1005/21 (- 25 °C/+ 100 °C/21 days damp heat test) in accordance with EN 60068-1

**Characteristics and ordering codes**

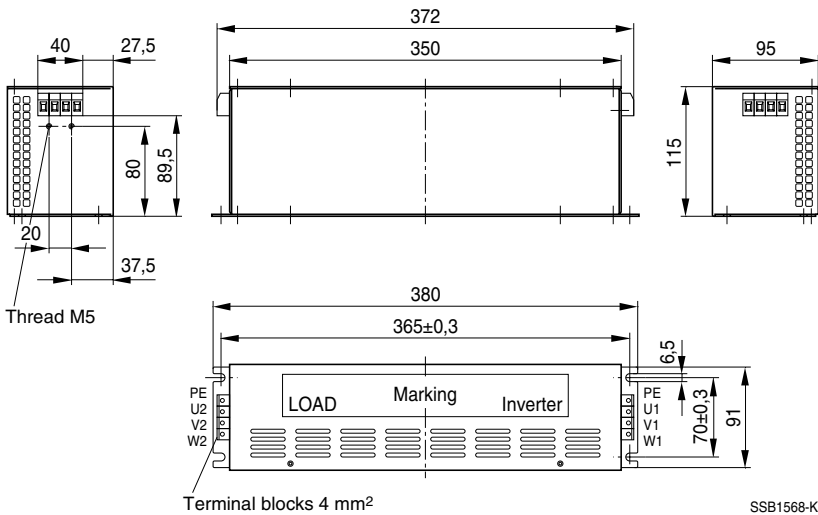
$I_R$ A	Terminal cross section mm <sup>2</sup>	$I_q$ A	$\Delta V$ V	$P_V$ W	$R_{typ}$ mΩ	Approx. weight kg	Ordering code
6	4	0,24	10	29	200	5,2	B84143-V6-R27
12	4	0,48	8	37	66	7,9	B84143-V12-R27
16	4	0,81	8	49	49	8,3	B84143-V16-R27
25	6	1,20	7	65	27	11,1	B84143-V25-R27
35	6	1,60	7	70	15	16,6	B84143-V35-R27

Dimensional drawings

B84143-V6-R27

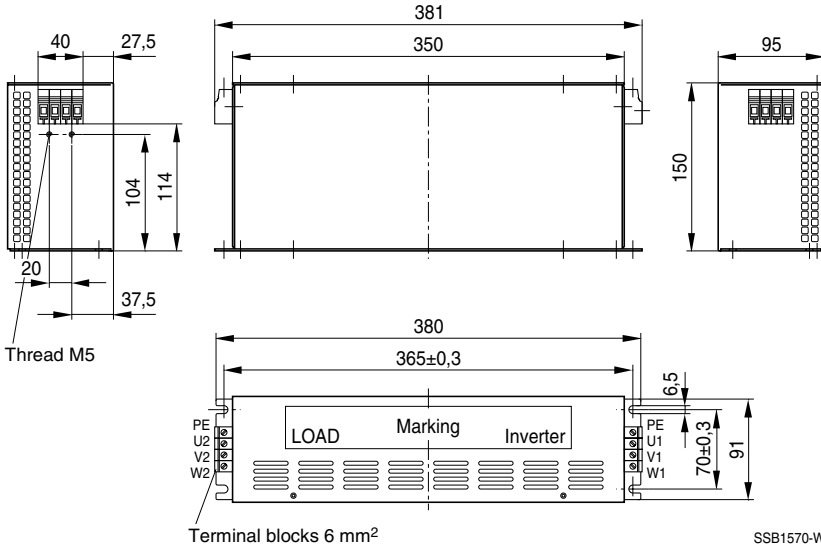


B84143-V12-R27, B84143-V16-R27

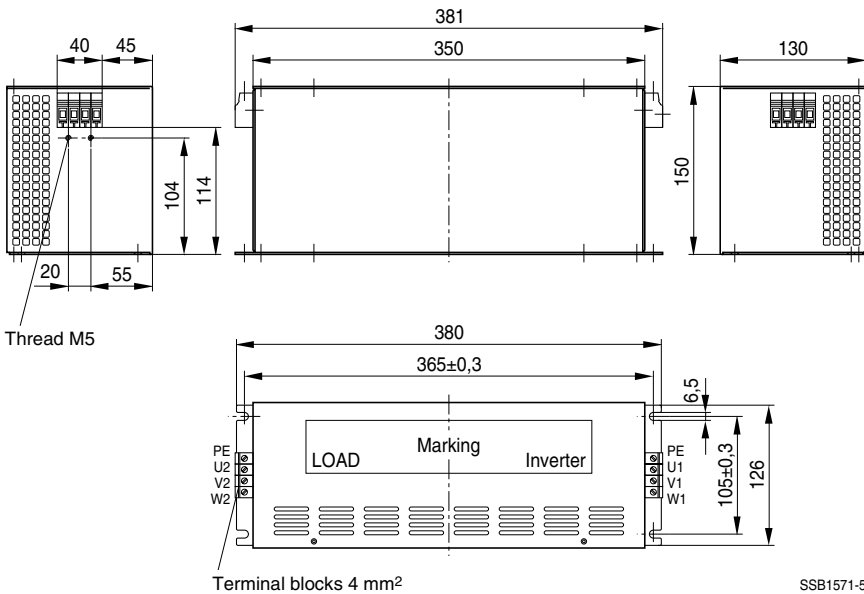


Sine-Wave Output Filters

B84143-V25-R27



B84143-V35-R27



**Herausgegeben von EPCOS AG**

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