



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Datasheet

Power line filter



for shielded rooms & secure area

250/277/480 V, 50/60 Hz, 1-100 A, 40 °C

Ordering code: **B84299D6***A(B)00***

Date: 2011-07-22

Version: 06

Technical data and measuring conditions

Rated frequency	f_R	50/60	Hz
Rated temperature	T_R	40	°C
Overload capability (thermal) for 3 min per hour or for 30 s per hour		1.5 x I_R 2.5 x I_R	
Climatic category (IEC 60068-1)		25/85/21	
Rated frequency	f_R	50/60	Hz
B84299D60*0B003 - Rated voltage	U_R	250	V AC
Test voltage line to line for 2 s	U_{test}	1768	V DC
Test voltage line to case for 2 s	U_{test}	2121	V DC
B84299D6300B000 - Rated voltage	U_R	250	V AC
Test voltage line to line for 2 s	U_{test}	1768	V DC
Test voltage line to case for 2 s	U_{test}	2121	V DC
B84299D6*00B003 - Rated voltage	U_R	480	V AC
Test voltage line to line for 2 s	U_{test}	2158	V DC
Test voltage line to case for 2 s	U_{test}	2200	V DC
B84299D6101A003 - Rated voltage	U_R	277	V AC
Test voltage line to line for 2 s	U_{test}	2158	V DC
Test voltage line to case for 2 s	U_{test}	2200	V DC

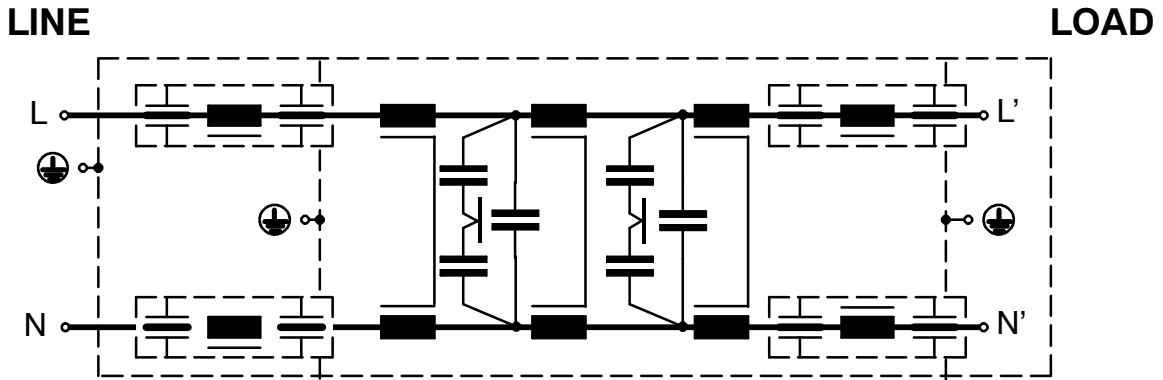
Characteristics and ordering codes

I_R	LINE terminals: threaded studs	LOAD terminals: cabels	$I_{leak}^{2)}$	R_{typ}	Approx. weight	Ordering code	Approvals for USA, Canada: UL (listed) cUL (listed)
A			mA	mΩ	kg		
1	#6-32 UNC 2A	AWG 18	1.6	107	1.9	B84299D6010B003	x
5	#6-32 UNC 2A	AWG 18	1.6	107	1.9	B84299D6050B003	x
30	M6	AWG 12	157	3.2	1.5	B84299D6300B000	x
30	M6	AWG 10	1706	7.7	10.8	B84299D6300B003	x
60	M8	AWG 6	1714	6	22	B84299D6600B003	x
100	M10	AWG 2	3751	3	11.5	B84299D6101A003	x

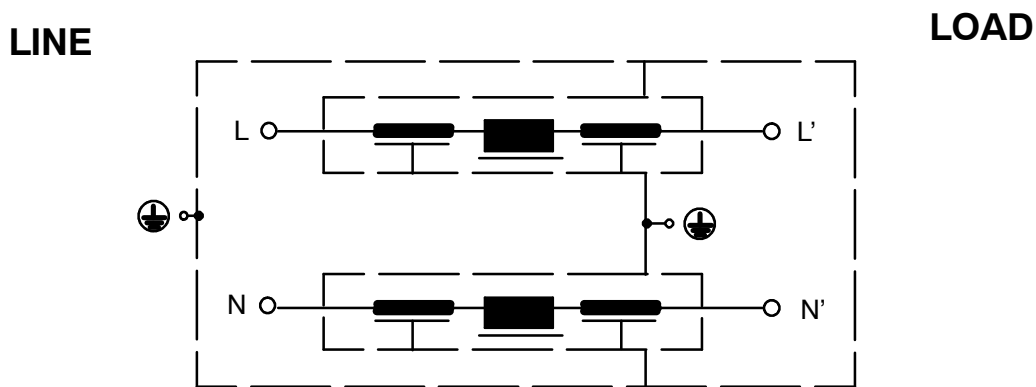
2) Calculation according draft proposal IEC 60939-1 Ed. 3 (2008-10-29), annex A, "Calculation of leakage current" at 50Hz.

3) **X** = approval granted **P** = pending **D** = design complies with **-** = none

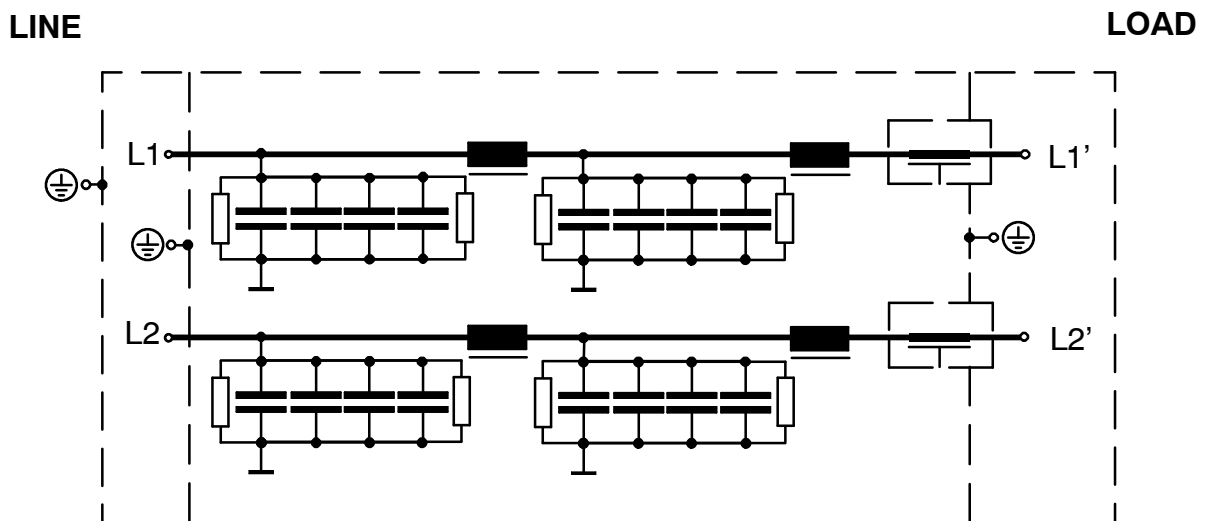
Circuit diagram for B84299D6010B003 and B84299D6050B003



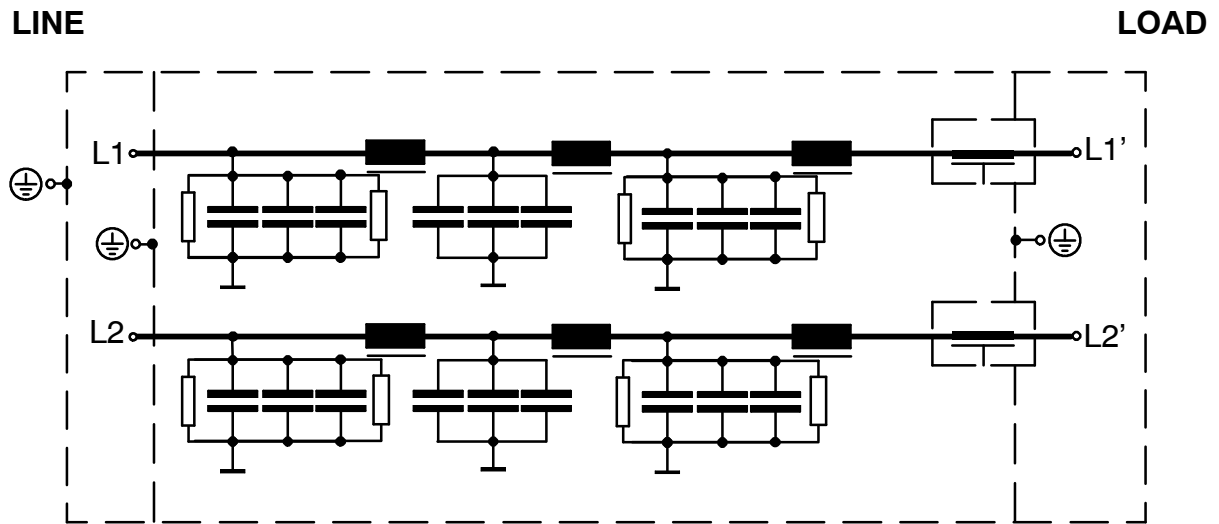
Circuit diagram for B84299D6300B000



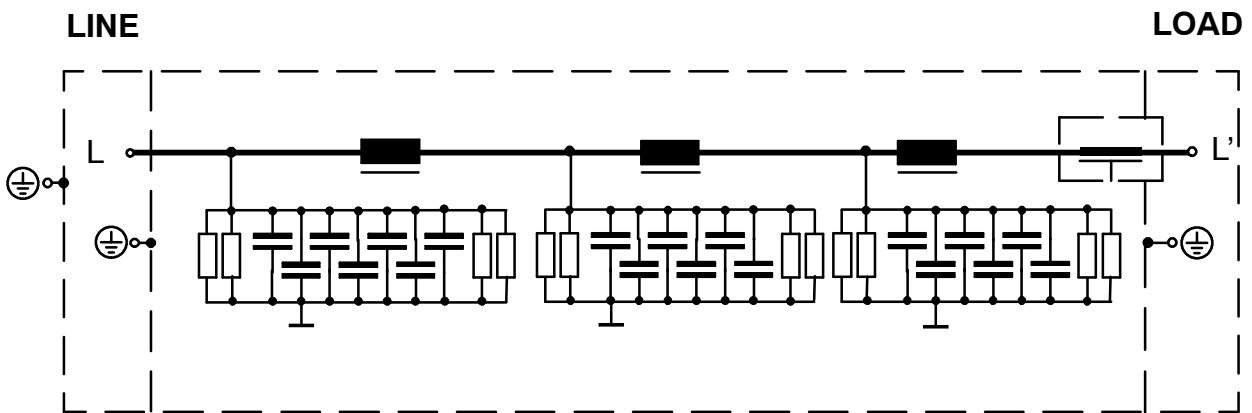
Circuit diagram for B84299D6300B003



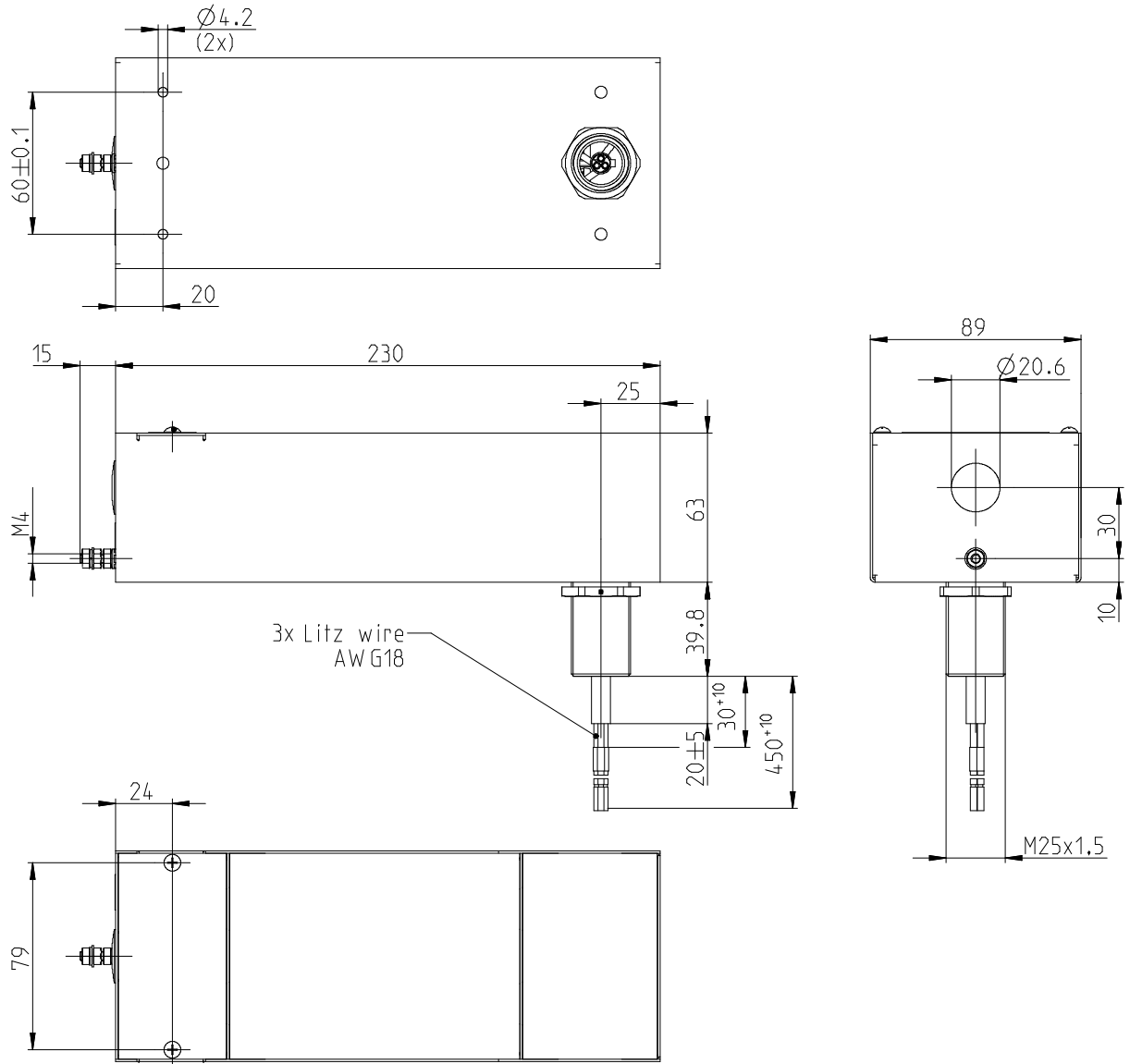
Circuit Diagram for B84299D6600B003



Circuit Diagram for B84299D6101A003

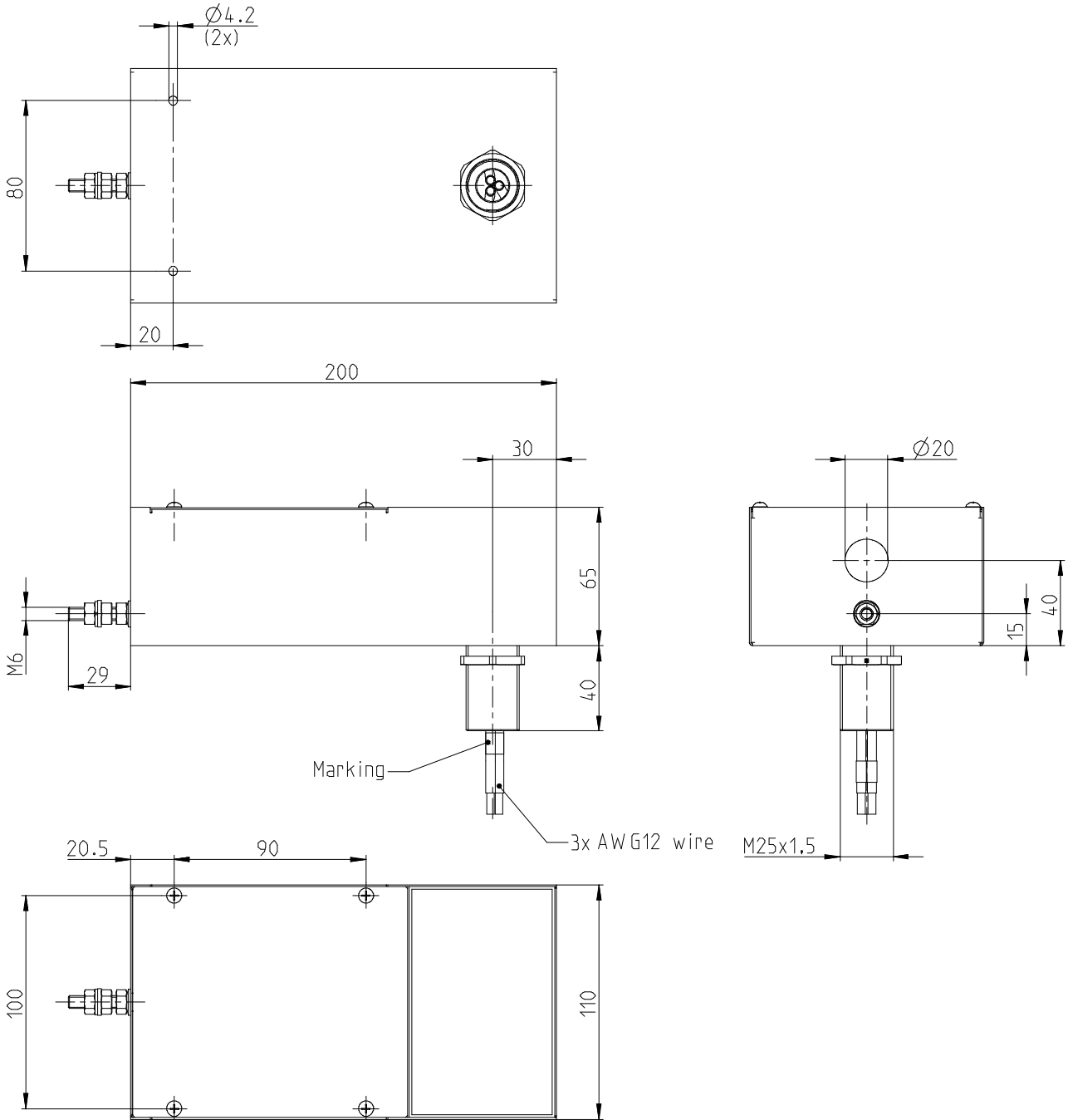


Dimensions for B84299D6010B003, B84299D6050B003



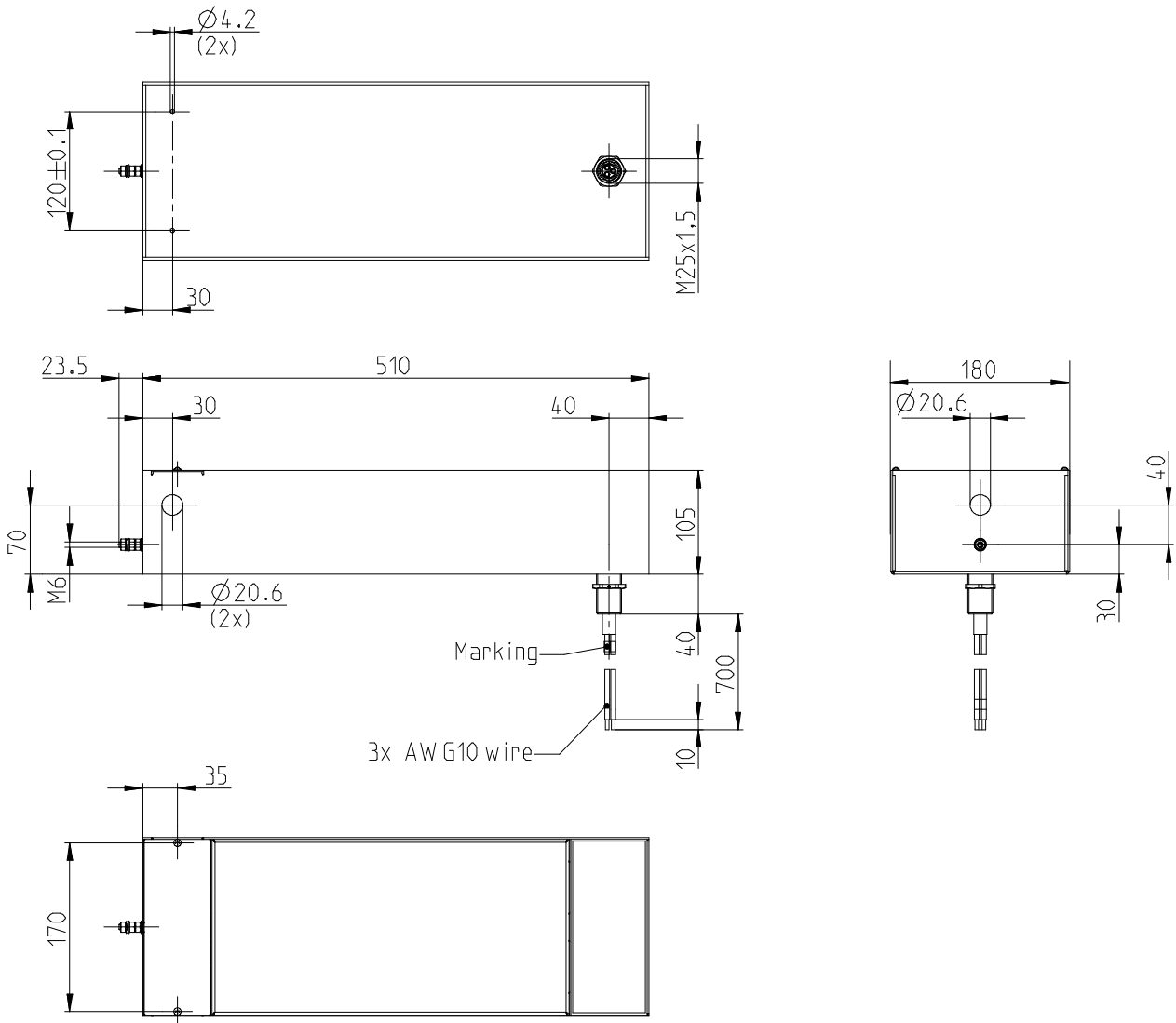
All dimensions are in mm.

Dimensions for B84299D6300B000



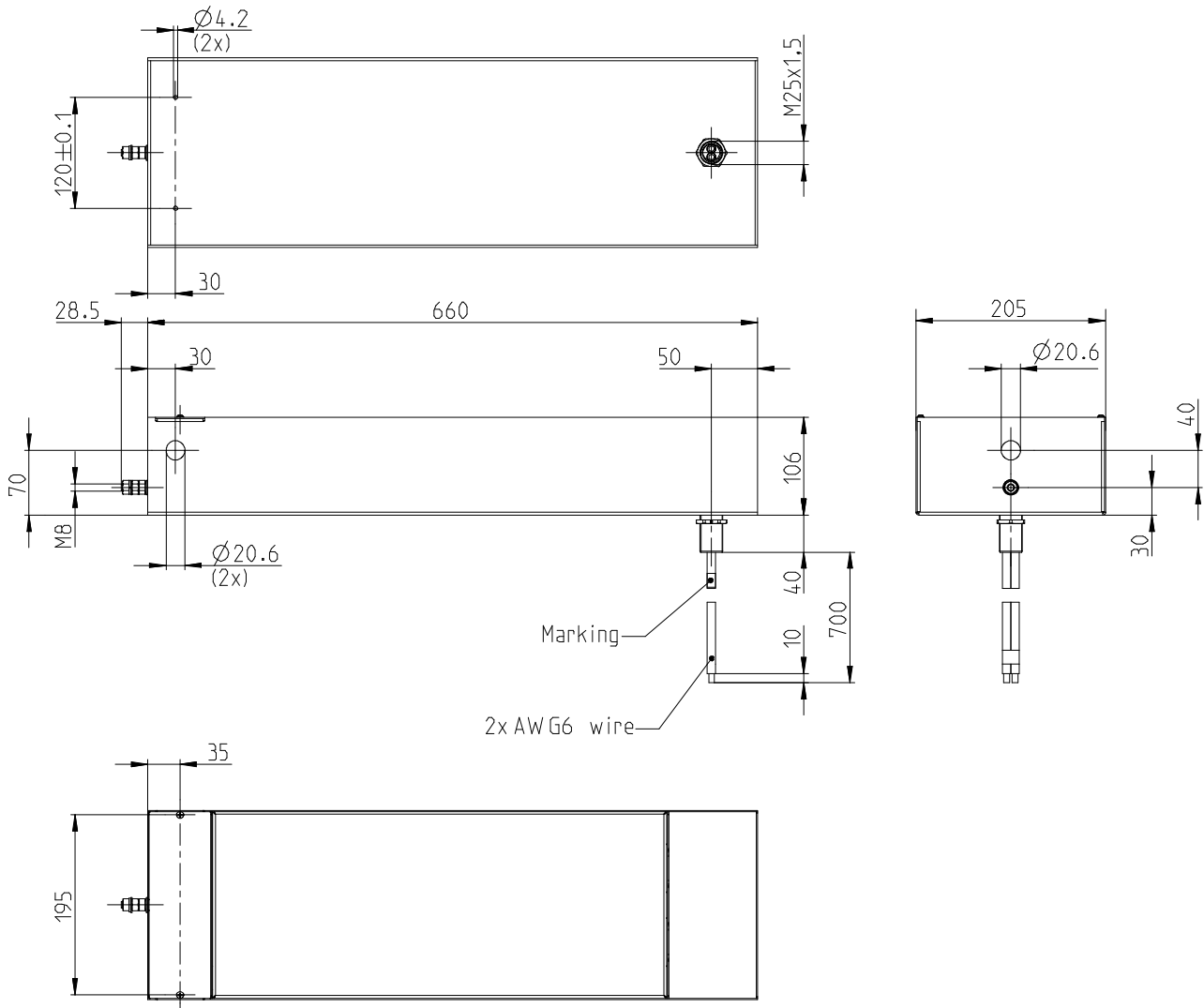
All dimensions are in mm.

Dimensions for B84299D6300B003



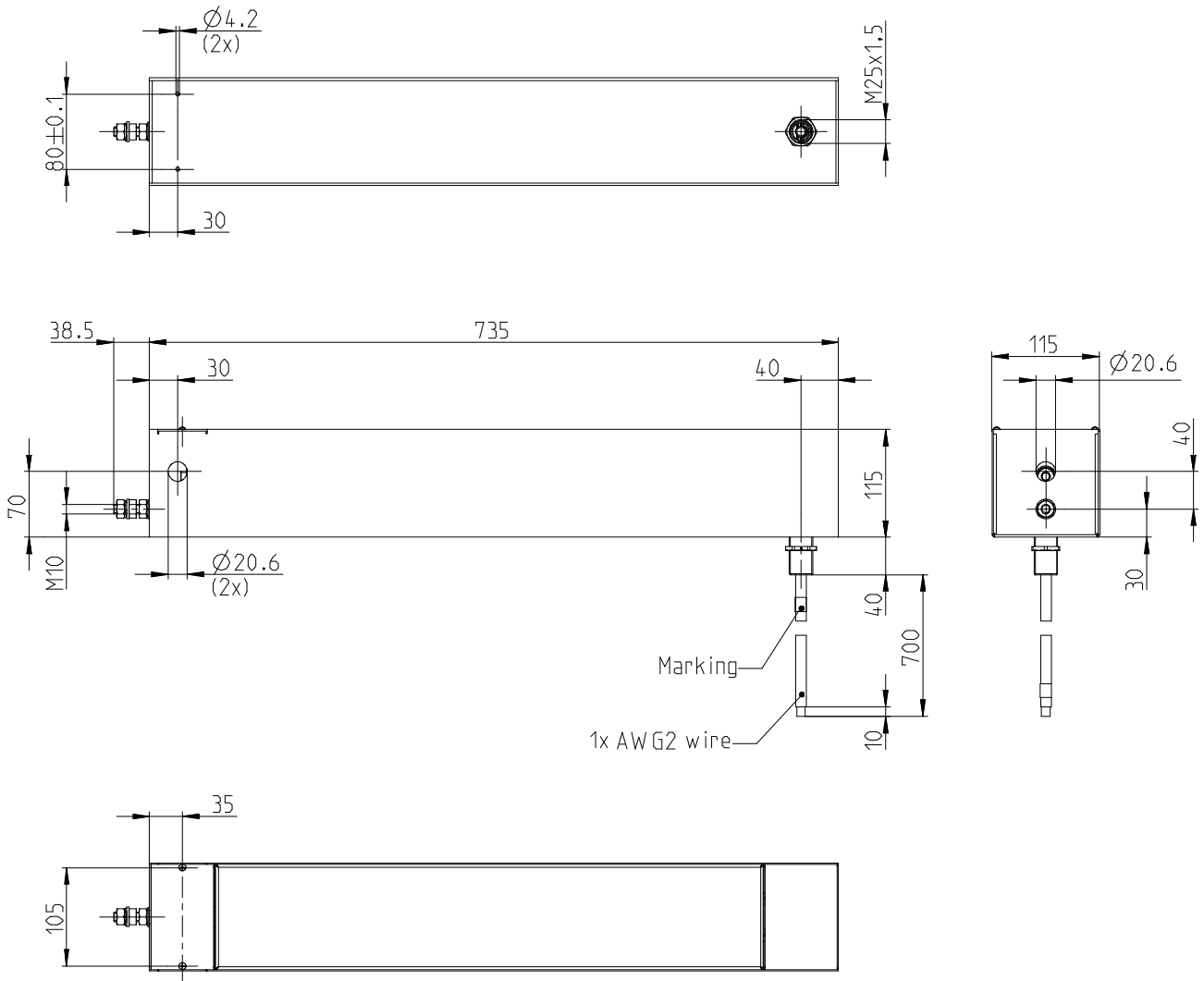
All dimensions are in mm.

Dimensions for B84299D6600B003



All dimensions are in mm.

Dimensions for B84299D6101A003



All dimensions are in mm.

Cautions and warnings

- Please note the advices in our data book “EMC Filters” (latest edition); attention should be paid to the chapter “General safety notes”.
- It shall be ensured that only qualified persons (electricity specialists) are engaged on work such as planning, assembly, installation, operation, repair and maintenance. They must be provided with the corresponding documentation.
- Danger of electric shock. EMC filters contain components that store an electric charge. Dangerous voltages can continue to exist at the filter terminals for longer than five minutes even after the power has been switched off.
- The protective earth connections shall be the first to be made when the EMC filter is installed and the last to be disconnected. Depending on the magnitude of the leakage currents, the particular specifications for making the protective-earth connection must be observed.
- Impermissible overloading of the EMC filter, such as with circuits able to cause resonances, impermissible voltages at higher frequencies etc. can lead to bodily injury and death as well as cause substantial material damages (e.g. destruction of the filter housing).
- EMC filters must be protected in the application against impermissible exceeding of the rated currents by overcurrent protective.
- In case of leakage currents $> 3.5 \text{ mA}$ you shall mount the PE conductor stationary with the required cross section before beginning of operation and save it against disconnecting. For leakage currents $I_L^4) < 10 \text{ mA}$ the PE conductor must have a KU value ³⁾ of 4.5; for leakage currents $I_L \geq 10 \text{ mA}$ the PE conductor must have a KU value of 6.

3) The KU value (symbol KU) is a classification parameter of safety-referred failure types designed to ensure protection against hazardous body currents and excessive heating. A value of KU = 4.5 with respect to interruptions is attained:

- with a permanently connected protective earth circuit $\geq 1.5 \text{ mm}^2$
- with a protective earth circuit $\geq 2.5 \text{ mm}^2$ connected via shroud connectors (IEC 60309-2).

KU = 6 with respect to interruptions is achieved for fixed-connection lines $\geq 10 \text{ mm}^2$ where the type of connection and line layout correspond to the requirements for PEN conductors as specified in relevant standards.

4) I_L = leakage current let-go

Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
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