

## SHB 80A/60mV

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SHB 80A/60mV, Shunt

Code: M7122E.

- > Accuracy: 0.5
- > Measurement Range (A): 80A/60mV
- > Input current: 80 A
- > Relation: 80A/60mV

### Description

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- Shunt for the measurement of DC, from 1 A dc to 15 000 A dc, depending on the type
- Accuracy class: 0.5
- All types are supplied with 1.5 m long cables, with a section of 1.5 m<sup>2</sup>
- The standard output voltage is .../60 mV, but there are other types of outputs on demand, see coding table.

### Application

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Used in DC electrical lines to obtain a voltage signal that is proportional to the current through the shunt



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Shunts

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### Specifications

#### Electrical characteristics

|                    |           |
|--------------------|-----------|
| Permanent overload | 1,2 $I_n$ |
|--------------------|-----------|

#### Environmental characteristics

|                     |                |
|---------------------|----------------|
| Working temperature | -25 ... +60 °C |
|---------------------|----------------|

#### Mechanical characteristics

|             |                               |
|-------------|-------------------------------|
| Envelope    | Manganin rods Brass terminals |
| Weight (kg) | 0,2                           |

#### Current measurement circuit

|                             |   |
|-----------------------------|---|
| Nominal frequency           | 50 / 60 Hz  |
| Primary current measurement | 80 A  |
| Allowable overload          | During 5 s 10 $I_n$ , yes 10 A $\leq I_n \leq$ 500 A 5 $I_n$ , yes 600 A $\leq I_n \leq$ 2000 A 2 $I_n$ , yes 2500 A $\leq I_n$ |
| Transformation ratio        | ... / 60 mV   |

#### Standards

|           |                                   |
|-----------|-----------------------------------|
| Standards | DIN 43703, IEC 51, VDE 410, BS 89 |
|-----------|-----------------------------------|

#### Measurement accuracy

|          |     |
|----------|-----|
| Accuracy | 0.5 |
|----------|-----|

#### SH

Shunts for direct current measurement

| CODE    | TYPE          | Measurement Range (A) |
|---------|---------------|-----------------------|
| M71211. | SHP 30A/60mV  | 30A/60mV              |
| M71212. | SHP 40A/60mV  | 40A/60mV              |
| M71213. | SHP 50A/60mV  | 50A/60mV              |
| M71214. | SHP 60A/60mV  | 60A/60mV              |
| M71215. | SHP 75A/60mV  | 75A/60mV              |
| M71216. | SHP 100A/60mV | 100A/60mV             |
| M71217. | SHP 150A/60mV | 150A/60mV             |
| M71218. | SHP 200A/60mV | 200A/60mV             |
| M71221. | SHB 1A/60mV   | 1A/60mV               |
| M71222. | SHB 1.5A/60mV | 1.5A/60mV             |
| M71223. | SHB 2.5A/60mV | 2.5A/60mV             |



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| CODE    | TYPE           | Measurement Range (A) |
|---------|----------------|-----------------------|
| M71224. | SHB 4A/60mV    | 4A/60mV               |
| M71225. | SHB 5A/60mV    | 5A/60mV               |
| M71226. | SHB 6A/60mV    | 6A/60mV               |
| M71227. | SHB 10A/60mV   | 10A/60mV              |
| M71228. | SHB 15A/60mV   | 15A/60mV              |
| M71229. | SHB 25A/60mV   | 25A/60mV              |
| M7122A. | SHB 30A/60mV   | 30A/60mV              |
| M7122B. | SHB 40A/60mV   | 40A/60mV              |
| M7122C. | SHB 50A/60mV   | 50A/60mV              |
| M7122D. | SHB 60A/60mV   | 60A/60mV              |
| M7122E. | SHB 80A/60mV   | 80A/60mV              |
| M7122F. | SHB 100A/60mV  | 100A/60mV             |
| M7122N. | SHB 200A/60mV  | 200A/60mV             |
| M71231. | SH 30A/60mV    | 30A/60mV              |
| M71232. | SH 40A/60mV    | 40A/60mV              |
| M71233. | SH 50A/60mV    | 50A/60mV              |
| M71234. | SH 60A/60mV    | 60A/60mV              |
| M71235. | SH 80A/60mV    | 80A/60mV              |
| M71236. | SH 100A/60mV   | 100A/60mV             |
| M71237. | SH 150A/60mV   | 150A/60mV             |
| M71238. | SH 200A/60mV   | 200A/60mV             |
| M71239. | SH 250A/60mV   | 250A/60mV             |
| M7123A. | SH 300A/60mV   | 300A/60mV             |
| M7123B. | SH 400A/60mV   | 400A/60mV             |
| M7123C. | SH 500A/60mV   | 500A/60mV             |
| M7123D. | SH 600A/60mV   | 600A/60mV             |
| M7123E. | SH 750A/60mV   | 750A/60mV             |
| M7123F. | SH 800A/60mV   | 800A/60mV             |
| M7123G. | SH 1000A/60mV  | 1000A/60mV            |
| M7123H. | SH 1200A/60mV  | 1200A/60mV            |
| M7123J. | SH 1500A/60mV  | 1500A/60mV            |
| M7123K. | SH 2000A/60mV  | 2000A/60mV            |
| M7123L. | SH 2500A/60mV  | 2500A/60mV            |
| M7123M. | SH 3000A/60mV  | 3000A/60mV            |
| M7123N. | SH 4000A/60mV  | 4000A/60mV            |
| M7123O. | SH 20000A/60mV | 20000A/60mV           |
| M7123P. | SH 5000A/60mV  | 5000A/60mV            |
| M7123Q. | SH 6000A/60mV  | 6000A/60mV            |
| M7123R. | SH 7500A/60mV  | 7500A/60mV            |



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| CODE    | TYPE           | Measurement Range (A) |
|---------|----------------|-----------------------|
| M7123S. | SH 8000A/60mV  | 8000A/60mV            |
| M7123T. | SH 10000A/60mV | 10000A/60mV           |
| M7123U. | SH 12500A/60mV | 12500A/60mV           |
| M7123V. | SH 15000A/60mV | 15000A/60mV           |
| M7123Z. | SH 18000A/60mV | 18000A/60mV           |

**SHP:** Faston connection; **SHB:** Insulating base socket(up to 100 A); **SH:** Without base

For other configurations see additional performance table.

All shunts are supplied with 1.5 m long cables with a 1.5 mm<sup>2</sup> cross-section



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Shunts

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## Dimensions

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