

SH 500A/60mV



SH 500A/60mV, Shunt

Code: M7123C.

- > Accuracy: 0.5
- > Measurement Range (A): 500A/60mV
- > Input current: 500 A
- > Relation: 500A/60mV

Description

- 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 m²
- The standard output voltage is .../60 mV, but there are other types of outputs on demand, see coding table.

Application

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) | 0,82 |

Current measurement circuit

| | |
|-----------------------------|---|
| Nominal frequency | 50 / 60 Hz |
| Primary current measurement | 500 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 mm² cross-section



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Dimensions

