

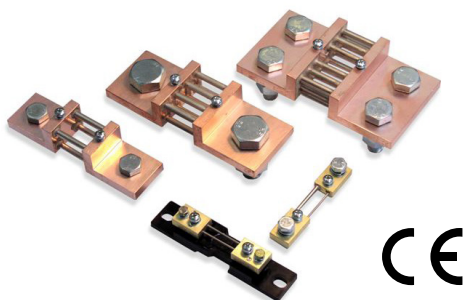
### FEATURES:

Class  
0.2

Class  
0.5

1 A  
...  
18 kA

DIN  
35 mm



- Extension of d.c. current measuring ranges of moving-coil ammeters.
- **Accuracy class 0.2 for ranges  $\leq 2500$  A, class 0.5 for ranges  $> 2500$  A.**
- Shunts of 1...25 A ranges (and on request, B2 40...150 A) are fixed on an isolating base.
- The isolating base is adapted to be assembled on a 35 mm DIN rail.
- On request, additional chemical coating are available: lackering or silver.

### INPUT:



### OUTPUTS:

50  
mV

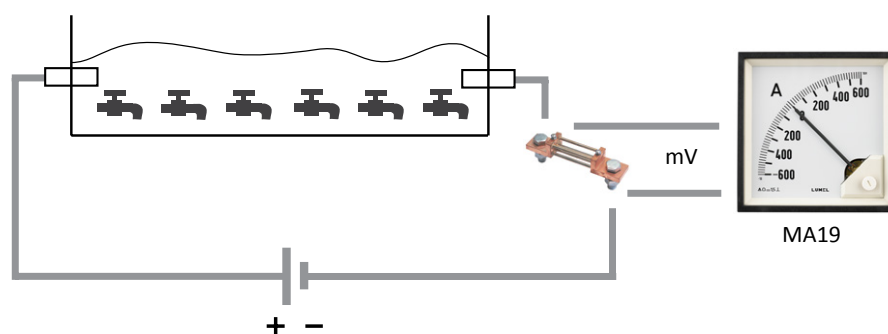
60  
mV

75  
mV

100  
mV

150  
mV

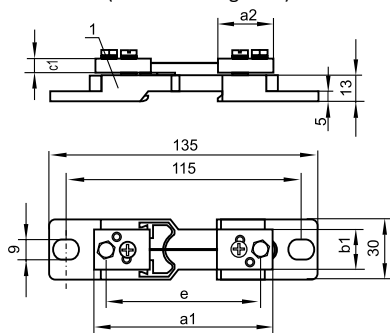
### EXAMPLE OF APPLICATION



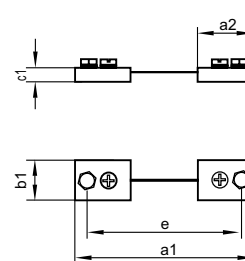
Process of fittings electroplating.

### KIND OF VERSION

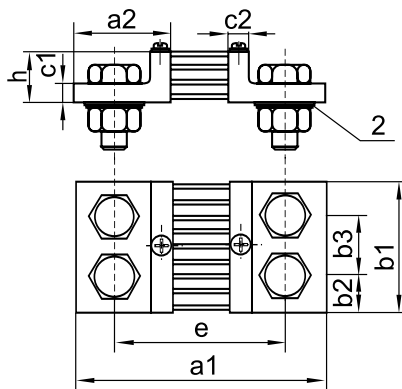
Version A (on an isolating base)



Version D



Version B



Version C

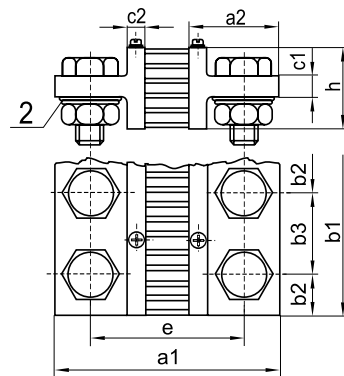


Fig.1. Fixing dimensions of shunts  
1 - isolating base, 2 - round spring washer.

### HUGO TILLQUIST AB

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# B2, B3, B4, B5, B6 MEASURING SHUNTS

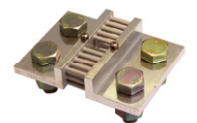
| B2 60 mV   |         |     |    |     |    |    |    |    |     |     |             | Current terminals |          |     |     |
|--|---------|-----|----|-----|----|----|----|----|-----|-----|-------------|-------------------|----------|-----|-----|
| IN [A]   | Version | a1  | a2 | b1  | b2 | b3 | c1 | c2 | e   | h   | Weight [kg] | LZ                | Bolt     | P   | N   |
| 1; 1,5; 2; 2,5; 4;6; 5; 10; 12; 15; 20; 25; 30         | A       | 90  | 28 | 20  | -  | -  | 8  | -  | 78  | -   | 0.13        | 2 x 1             | M5 x 12  | 5.5 | -   |
| 30; 40; 45;50; 60; 75; 80; 100; 120 125; 150; 160; 200 | A, D    | 100 | 33 | 20  | -  | -  | 8  | -  | 80  | -   | 0.13        | 2 x 1             | M8 x 16  | 8.5 | -   |
| 200; 240;250; 300                                      | B       | 145 | 55 | 30  | 15 | -  | 10 | 10 | 105 | 30  | 0.60        | 2 x 1             | M12 x 40 | 13  | M12 |
| 300; 350; 400; 500                                     | B       | 145 | 55 | 40  | 20 | -  | 10 | 10 | 105 | 30  | 0.85        | 2 x 1             | M16 x 45 | 17  | M16 |
| 500; 600; 650; 750; 800                                | B       | 145 | 55 | 40  | 20 | -  | 10 | 10 | 105 | 30  | 0.85        | 2 x 1             | M16 x 45 | 17  | M16 |
| 750; 800; 1000; 1200                                   | B       | 165 | 65 | 60  | 30 | -  | 10 | 10 | 115 | 30  | 1.45        | 2 x 1             | M20 x 50 | 21  | M20 |
| 1200; 1500; 2000                                       | B       | 165 | 65 | 90  | 21 | 48 | 10 | 10 | 115 | 30  | 2.00        | 2 x 2             | M16 x 45 | 17  | M16 |
| 2000; 2500; 3000                                       | B       | 165 | 65 | 120 | 30 | 60 | 10 | 10 | 115 | 30  | 2.90        | 2 x 2             | M20 x 50 | 21  | M20 |
| 3000; 4000; 5000                                       | C       | 165 | 65 | 120 | 30 | 60 | 15 | 10 | 115 | 60  | 4.30        | 2 x 2             | M20 x 60 | 21  | M20 |
| 5000; 6000; 8000                                       | C       | 175 | 70 | 154 | 25 | 52 | 25 | 15 | 125 | 130 | 10.50       | 2 x 3             | M20 x 75 | 21  | M20 |
| 8000; 10000; 12000                                     | C       | 185 | 75 | 206 | 25 | 52 | 30 | 20 | 135 | 170 | 21.00       | 2 x 4             | M20 x 80 | 21  | M20 |
| 12000; 15000; 18000                                    | C       | 185 | 75 | 310 | 25 | 52 | 30 | 20 | 135 | 170 | 32.00       | 2 x 6             | M20 x 80 | 21  | M20 |



| B3 150 mV                                      |         |     |    |     |    |    |    |    |     |     |             | Current terminals |          |     |     |
|--|---------|-----|----|-----|----|----|----|----|-----|-----|-------------|-------------------|----------|-----|-----|
| IN [A]   | Version | a1  | a2 | b1  | b2 | b3 | c1 | c2 | e   | h   | Weight [kg] | LZ                | Bolt     | P   | N   |
| 1; 1,5; 2,5; 4; 5; 6; 10; 15; 20; 25           | A       | 90  | 28 | 20  | -  | -  | 8  | -  | 78  | -   | 0.14        | 2 x 1             | M5 x 12  | 5.5 | -   |
| 30; 40; 50; 60; 75; 80;100; 125; 150; 160; 200 | D       | 225 | 33 | 25  | -  | -  | 8  | -  | 205 | -   | 0.23        | 2 x 1             | M8 x 16  | 8.5 | -   |
| 200; 250; 300                                  | B       | 270 | 55 | 30  | 15 | -  | 10 | 10 | 230 | 50  | 0.68        | 2 x 1             | M12 x 40 | 13  | M12 |
| 300; 400; 500                                  | B       | 270 | 55 | 40  | 20 | -  | 10 | 10 | 230 | 50  | 1.05        | 2 x 1             | M16 x 45 | 17  | M16 |
| 500; 600; 750; 800                             | B       | 270 | 55 | 40  | 20 | -  | 10 | 10 | 230 | 50  | 1.16        | 2 x 1             | M16 x 45 | 17  | M16 |
| 750; 800; 1000; 1200                           | B       | 290 | 65 | 70  | 35 | -  | 10 | 10 | 240 | 50  | 2.15        | 2 x 1             | M20 x 50 | 21  | M20 |
| 1200; 1500; 2000                               | C       | 290 | 65 | 90  | 21 | 48 | 15 | 10 | 240 | 60  | 3.10        | 2 x 2             | M16 x 60 | 17  | M16 |
| 2000; 2500; 3000                               | C       | 290 | 65 | 120 | 30 | 60 | 15 | 10 | 240 | 60  | 5.20        | 2 x 2             | M20 x 60 | 21  | M20 |
| 3000; 4000; 5000                               | C       | 300 | 70 | 120 | 30 | 60 | 25 | 15 | 250 | 130 | 8.30        | 2 x 2             | M20 x 75 | 21  | M20 |
| 5000; 6000; 8000                               | C       | 300 | 70 | 154 | 25 | 52 | 25 | 15 | 250 | 130 | 15.00       | 2 x 3             | M20 x 75 | 21  | M20 |
| 8000; 10000                                    | C       | 310 | 75 | 206 | 25 | 52 | 30 | 20 | 260 | 170 | 28.00       | 2 x 4             | M20 x 80 | 21  | M20 |
| 15000  | C       | 310 | 75 | 310 | 25 | 52 | 30 | 20 | 260 | 170 | 35.00       | 2 x 6             | M20 x 80 | 21  | M20 |



| B4 50 mV                                  |         |     |    |     |    |    |    |    |     |     |             | Current terminals |          |     |     |
|---|---------|-----|----|-----|----|----|----|----|-----|-----|-------------|-------------------|----------|-----|-----|
| IN [A]                                    | Version | a1  | a2 | b1  | b2 | b3 | c1 | c2 | e   | h   | Weight [kg] | LZ                | Bolt     | P   | N   |
| 1; 1,5; 2,5; 4; 5; 6;10; 15; 20; 25       | A       | 90  | 28 | 20  | -  | -  | 8  | -  | 78  | -   | 0.13        | 2 x 1             | M5 x 12  | 5.5 | -   |
| 30; 40; 50; 60;75; 80; 100; 150; 160; 200 | D       | 93  | 33 | 20  | -  | -  | 8  | -  | 73  | -   | 0.13        | 2 x 1             | M8 x 16  | 8.5 | -   |
| 200; 250; 300                             | B       | 138 | 55 | 30  | 15 | -  | 10 | 10 | 98  | 30  | 0.60        | 2 x 1             | M12 x 40 | 13  | M12 |
| 300; 400; 500                             | B       | 138 | 55 | 40  | 20 | -  | 10 | 10 | 98  | 30  | 0.85        | 2 x 1             | M16 x 45 | 17  | M16 |
| 500; 600; 750; 800                        | B       | 138 | 55 | 40  | 20 | -  | 10 | 10 | 98  | 30  | 0.85        | 2 x 1             | M16 x 45 | 17  | M16 |
| 750; 800; 1000                            | B       | 158 | 65 | 60  | 30 | -  | 10 | 10 | 108 | 30  | 1.45        | 2 x 1             | M20 x 50 | 21  | M20 |
| 1500; 2000                                | B       | 158 | 65 | 90  | 21 | 48 | 10 | 10 | 108 | 30  | 2.00        | 2 x 2             | M16 x 45 | 17  | M16 |
| 2000; 2500; 3000                          | B       | 158 | 65 | 120 | 30 | 60 | 10 | 10 | 108 | 30  | 2.90        | 2 x 2             | M20 x 50 | 21  | M20 |
| 3000; 4000; 5000                          | C       | 158 | 65 | 120 | 30 | 60 | 15 | 10 | 108 | 60  | 4.30        | 2 x 2             | M20 x 60 | 21  | M20 |
| 5000; 6000; 8000                          | C       | 168 | 70 | 154 | 25 | 52 | 25 | 15 | 118 | 130 | 10.50       | 2 x 3             | M20 x 75 | 21  | M20 |
| 8000; 10000; 12000                        | C       | 178 | 75 | 206 | 25 | 52 | 30 | 20 | 128 | 170 | 21.00       | 2 x 4             | M20 x 80 | 21  | M20 |
| 12000; 15000                              | C       | 178 | 75 | 310 | 25 | 52 | 30 | 20 | 128 | 170 | 32.00       | 2 x 6             | M20 x 80 | 21  | M20 |



# B2, B3, B4, B5, B6 MEASURING SHUNTS



| B5 75 mV                                   |         |     |    |     |    |    |    |    |     |     |             | Current terminals |          |     |     |
|--|---------|-----|----|-----|----|----|----|----|-----|-----|-------------|-------------------|----------|-----|-----|
| IN [A]                                     | Version | a1  | a2 | b1  | b2 | b3 | c1 | c2 | e   | h   | Weight [kg] | LZ                | Bolt     | P   | N   |
| 1; 1,5; 2,5; 4; 5; 6; 10; 12; 15; 20; 25   | A       | 90  | 28 | 20  | -  | -  | 8  | -  | 78  | -   | 0.14        | 2 x 1             | M5 x 12  | 5.5 | -   |
| 30; 40; 50; 75; 80; 60; 100; 125; 150; 160 | D       | 115 | 33 | 25  | -  | -  | 8  | -  | 95  | -   | 0.17        | 2 x 1             | M8 x 16  | 8.5 | -   |
| 200; 250; 300                              | B       | 160 | 55 | 30  | 15 | -  | 10 | 10 | 120 | 30  | 0.63        | 2 x 1             | M12 x 40 | 13  | M12 |
| 300; 400; 500                              | B       | 160 | 55 | 40  | 20 | -  | 10 | 10 | 120 | 30  | 0.92        | 2 x 1             | M16 x 45 | 17  | M16 |
| 500; 600                                   | B       | 160 | 55 | 40  | 20 | -  | 10 | 10 | 120 | 30  | 1.00        | 2 x 1             | M16 x 45 | 17  | M16 |
| 750; 800; 1000; 1200                       | B       | 180 | 65 | 60  | 30 | -  | 10 | 10 | 130 | 30  | 1.75        | 2 x 1             | M20 x 50 | 21  | M20 |
| 1200; 1500; 2000                           | B       | 180 | 65 | 120 | 30 | 60 | 10 | 10 | 130 | 30  | 2.30        | 2 x 2             | M16 x 45 | 17  | M16 |
| 2000; 2500; 3000                           | C       | 180 | 65 | 120 | 30 | 60 | 15 | 10 | 130 | 60  | 3.10        | 2 x 2             | M20 x 60 | 21  | M20 |
| 3000; 4000; 5000                           | C       | 190 | 70 | 120 | 30 | 60 | 25 | 15 | 140 | 130 | 5.20        | 2 x 2             | M20 x 75 | 21  | M20 |
| 5000; 6000; 8000                           | C       | 190 | 70 | 154 | 25 | 52 | 25 | 15 | 140 | 130 | 11.20       | 2 x 3             | M20 x 75 | 21  | M20 |
| 8000; 10000                                | C       | 200 | 75 | 206 | 25 | 52 | 30 | 20 | 150 | 170 | 22.00       | 2 x 4             | M20 x 80 | 21  | M20 |
| 15000                                      | C       | 200 | 75 | 310 | 25 | 52 | 30 | 20 | 150 | 170 | 33.00       | 2 x 6             | M20 x 80 | 21  | M20 |

| B6 100 mV                                       |         |     |    |     |    |    |    |    |     |     |             | Current terminals |          |     |     |
|---|---------|-----|----|-----|----|----|----|----|-----|-----|-------------|-------------------|----------|-----|-----|
| IN [A]  | Version | a1  | a2 | b1  | b2 | b3 | c1 | c2 | e   | h   | Weight [kg] | LZ                | Bolt     | P   | N   |
| 1; 1,5; 2,5; 4; 5; 6; 10; 15; 20; 25            | A       | 90  | 28 | 20  | -  | -  | 8  | -  | 78  | -   | 0.14        | 2 x 1             | M5 x 12  | 5.5 | -   |
| 30; 40; 50; 60; 75; 80; 100; 125; 150; 160; 200 | D       | 145 | 33 | 25  | -  | -  | 8  | -  | 125 | -   | 0.20        | 2 x 1             | M8 x 16  | 8.5 | -   |
| 200; 250; 300                                   | B       | 190 | 55 | 30  | 15 | -  | 10 | 10 | 150 | 30  | 0.65        | 2 x 1             | M12 x 40 | 13  | M12 |
| 300; 400; 500                                   | B       | 190 | 55 | 40  | 20 | -  | 10 | 10 | 150 | 30  | 1.00        | 2 x 1             | M16 x 45 | 17  | M16 |
| 500; 600; 750; 800                              | B       | 190 | 55 | 40  | 20 | -  | 10 | 10 | 150 | 30  | 1.11        | 2 x 1             | M16 x 45 | 17  | M16 |
| 750; 800; 1000; 1200                            | B       | 210 | 65 | 60  | 30 | -  | 10 | 10 | 160 | 30  | 2.00        | 2 x 1             | M20 x 50 | 21  | M20 |
| 1200; 1500; 2000                                | B       | 210 | 65 | 120 | 30 | 60 | 10 | 10 | 160 | 30  | 2.50        | 2 x 2             | M16 x 45 | 17  | M16 |
| 2000; 2500; 3000                                | C       | 210 | 65 | 120 | 30 | 60 | 15 | 10 | 160 | 60  | 3.20        | 2 x 2             | M20 x 60 | 21  | M20 |
| 3000; 4000; 5000                                | C       | 220 | 70 | 120 | 30 | 60 | 25 | 15 | 170 | 130 | 5.80        | 2 x 2             | M20 x 75 | 21  | M20 |
| 5000; 6000; 8000                                | C       | 220 | 70 | 154 | 25 | 52 | 25 | 15 | 170 | 130 | 12.00       | 2 x 3             | M20 x 75 | 21  | M20 |
| 8000; 10000                                     | C       | 230 | 75 | 206 | 25 | 52 | 30 | 20 | 180 | 170 | 23.00       | 2 x 4             | M20 x 80 | 21  | M20 |
| 15000   | C       | 230 | 75 | 310 | 25 | 52 | 30 | 20 | 180 | 170 | 34.00       | 2 x 6             | M20 x 80 | 210 | M20 |

IN - rated current  
N - nut

LZ - number of terminals  
Bolt - hexagon bolt  
P - washer  
Voltage terminals - two M5 x 8 cylinder-head bolts with a cruciform cavity + 5.5 washers + 5.1 spring washers

| TECHNICAL DATA  |   |  |
|---|---|--|
| Electromagnetic compatibility                                   | noise immunity  | acc. to EN 61000-6-2   |
|   | noise emissions   | acc. to EN 61000-6-4   |
| Overload range  | continuously<br>5 s max. $\leq 2,000$ A<br>> 2,000...10,000 A | 1.2 times rated current<br>5 times rated current<br>5 times rated current<br>acc. to EN 60051-8:2000 |
| Accuracy class  | 0.2 or 0.5 (acc. to ordering code)                            |  |
| Additional error from ambient temperature                       | 0.5 % / 10°C  |  |
| Climatic suitability  | climatic class 3  | acc. to VDE/VDI 3540   |
| Operating temperature   | -10...+55°C   |  |
| Storage temperature   | -25...+65°C   |  |
| Relative humidity   | $\leq 75\%$ annual average, non-condensing                    |  |
| Shunt calibration   | B2, B4, B5, B6<br>of 1 .. 10 A ranges                         | considering the 10 mA current of the meter measuring element   |
|   | B3 of 1 .. 4 A ranges   | considering the 5 mA current of the meter measuring element  |
| Shunts dimensions   | acc. to DIN 43 703 standard                                   |  |
| Testing voltage of shunts with an isolating base                | 5 kV  |  |
| Resistance of a pair of wires connecting the shunt to the meter | 35 mΩ or 75 Ω, wires are not delivered with the shunt         |  |
| Long-term overload  | 120%·In   |  |
| Short duration overload up to 5 seconds                         | for range up to 2kA - 5·In<br>for range 2kA <In<10kA - 2·In   |  |

# B2, B3, B4, B5, B6 MEASURING SHUNTS

## ORDERING

| Shunt-  | XX XXX | XXXXX | X | X  | XX | X | X |
|---|--------|-------|---|----|----|---|---|
| <b>Voltage drop:</b>                                      |        |       |   |    |    |   |   |
| 60 mV   | B2 060 |       |   |    |    |   |   |
| 150 mV  | B3 150 |       |   |    |    |   |   |
| 50 mV   | B4 050 |       |   |    |    |   |   |
| 75 mV   | B5 075 |       |   |    |    |   |   |
| 100 mV  | B6 100 |       |   |    |    |   |   |
| <b>Measuring range and version:</b>                       |        |       |   |    |    |   |   |
| acc. to the Table 1, Range code column                    |        | XXXXX |   |    |    |   |   |
| <b>External coating:</b>                                  |        |       |   |    |    |   |   |
| standard coating  |        |       | 0 |    |    |   |   |
| tropical coating  |        |       | T |    |    |   |   |
| total silver coating                                      |        |       | R |    |    |   |   |
| silver coating of current terminals                       |        |       | S |    |    |   |   |
| <b>Fixing bolts:</b>                                      |        |       |   |    |    |   |   |
| without bolts   |        |       | 0 |    |    |   |   |
| with bolts  |        |       | 1 |    |    |   |   |
| <b>Version:</b>   |        |       |   |    |    |   |   |
| acc. to the Table 1, Version code column                  |        |       |   | XX |    |   |   |
| <b>Language version:</b>                                  |        |       |   |    |    |   |   |
| multilanguage (Polish/English)                            |        |       |   |    | M  |   |   |
| other (after agreeing with the manufacturer)              |        |       |   |    | X  |   |   |
| <b>Acceptance tests:</b>                                  |        |       |   |    |    |   |   |
| without extra quality inspection requirements, class 0.2* |        |       |   |    |    | 0 |   |
| with an extra quality inspection certificate, class 0.2*  |        |       |   |    |    | 1 |   |
| with a checking certificate, class 0.2*                   |        |       |   |    |    | 2 |   |
| without extra quality inspection requirements, class 0.5  |        |       |   |    |    | A |   |
| with an extra quality inspection certificate, class 0.5   |        |       |   |    |    | B |   |
| with a checking certificate, class 0.5                    |        |       |   |    |    | C |   |



\* for ranges ≤ 2500 A

### Example of order:

The ordering code: **B2 060-1A00A-0-1-00-M-1** means:

- B2 060** - shunt B2 with voltage drop 60 mV
- 1A00A** - measuring range: 1 A, version on an isolating base
- 0** - standard external coating
- 1** - with fixing bolts
- 00** - standard version
- M** - multilanguage version
- 1** - with an extra quality inspection certificate, class 0.2.

Table 1

| Measuring range | Version (drawing) | B2 60mV    |              | B3 150mV   |              | B4 50mV    |              | B5 75mV    |              | B6 100mV   |              |
|-----------------|-------------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
|                 |                   | Range code | Version code | Range code | Version code | Range code | Version code | Range code | Version code | Range code | Version code |
| 1A              | A                 | 1A00A      | 00           | 1A00A      | 00           | 1A00A      | 00           | 1A00A      | 00           | 1A00A      | 00           |
| 1.5A            | A                 | 1A50A      | 00           | 1A50A      | 00           | 1A50A      | 00           | 1A50A      | 00           | 1A50A      | 00           |
| 2A              | A                 | 2A00A      | A1           | -          | -            | -          | -            | -          | -            | -          | -            |
| 2.5A            | A                 | 2A50A      | 00           | 2A50A      | 00           | 2A50A      | 00           | 2A50A      | 00           | 2A50A      | 00           |
| 4A              | A                 | 4A00A      | 00           | 4A00A      | 00           | 4A00A      | 00           | 4A00A      | 00           | 4A00A      | 00           |
| 5A              | A                 | 5A00A      | A1           | 5A00A      | A1           | 5A00A      | A1           | 5A00A      | A1           | 5A00A      | A1           |
| 6A              | A                 | 6A00A      | 00           | 6A00A      | 00           | 6A00A      | 00           | 6A00A      | 00           | 6A00A      | 00           |
| 10A             | A                 | 10A0A      | 00           | 10A0A      | 00           | 10A0A      | 00           | 10A0A      | 00           | 10A0A      | 00           |
| 12A             | A                 | 12A0A      | A1           | -          | -            | -          | -            | 12A0A      | A1           | -          | -            |
| 15A             | A                 | 15A0A      | 00           | 15A0A      | 00           | 15A0A      | 00           | 15A0A      | 00           | 15A0A      | 00           |
| 20A             | A                 | 20A0A      | A1           | 20A0A      | A1           | 20A0A      | A1           | 20A0A      | A1           | 20A0A      | A1           |
| 25A             | A                 | 25A0A      | 00           | 25A0A      | 00           | 25A0A      | 00           | 25A0A      | 00           | 25A0A      | 00           |

## SEE ALSO:



Moving - coil meters of MA series.



Digital meters N24, N25.



Temperature and d.c. standard signals universal digital meter with OLED - N21

## B2, B3, B4, B5, B6 MEASURING SHUNTS



Programmable digital meter of temp., resistance and standard signals - N30U.

| Measuring range      | Version (drawing) | B2 60mV    |              | B3 150mV   |              | B4 50mV    |              | B5 75mV    |              | B6 100mV   |              |
|----------------------|-------------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
|                      |                   | Range code | Version code | Range code | Version code | Range code | Version code | Range code | Version code | Range code | Version code |
| 30A, based on 25A    | A                 | 30A0A      | A1           | -          | -            | -          | -            | -          | -            | -          | -            |
| 30A, based on 150A   | A                 | 30A0A      | A2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 30A, based on 150A   | D                 | 30A0D      | A2           | 30A0D      | A2           | 30A0D      | A2           | 30A0D      | A2           | 30A0D      | A2           |
| 40A                  | A                 | 40A0A      | 00           | -          | -            | -          | -            | -          | -            | -          | -            |
| 40A                  | D                 | 40A0D      | 00           | 40A0D      | 00           | 40A0D      | 00           | 40A0D      | 00           | 40A0D      | 00           |
| 45A                  | A                 | 45A0A      | A2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 45A                  | D                 | 45A0D      | A2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 50A                  | A                 | 50A0A      | A2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 50A                  | D                 | 50A0D      | A2           | 50A0D      | A2           | 50A0D      | A2           | 50A0D      | A2           | 50A0D      | A2           |
| 60A                  | A                 | 60A0A      | 00           | -          | -            | -          | -            | -          | -            | -          | -            |
| 60A                  | D                 | 60A0D      | 00           | 60A0D      | 00           | 60A0D      | 00           | 60A0D      | 00           | 60A0D      | 00           |
| 75A                  | A                 | 75A0A      | A2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 75A                  | D                 | 75A0D      | A2           | 75A0D      | A2           | 75A0D      | A2           | 75A0D      | A2           | 75A0D      | A2           |
| 80A                  | A                 | 80A0A      | A2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 80A                  | D                 | 80A0D      | A2           | 80A0D      | A2           | 80A0D      | A2           | 80A0D      | A2           | 80A0D      | A2           |
| 100A                 | A                 | 100AA      | 00           | -          | -            | -          | -            | -          | -            | -          | -            |
| 100A                 | D                 | 100AD      | 00           | 100AD      | 00           | 100AD      | 00           | 100AD      | 00           | 100AD      | 00           |
| 120A                 | A                 | 120AA      | A2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 120A                 | D                 | 120AD      | A2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 125A                 | A                 | 125AA      | A2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 125A                 | D                 | 125AD      | A2           | 125AD      | A2           | -          | -            | 125AD      | A2           | 125AD      | A2           |
| 150A                 | A                 | 150AA      | 00           | -          | -            | -          | -            | -          | -            | -          | -            |
| 150A                 | D                 | 150AD      | 00           | 150AD      | 00           | 150AD      | 00           | 150AD      | 00           | 150AD      | 00           |
| 160A                 | A                 | 160AA      | A2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 160A                 | D                 | 160AD      | A2           | 160AD      | A2           | 160AD      | A2           | 160AD      | A2           | 160AD      | A2           |
| 200A                 | A                 | 200AA      | A2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 200A                 | D                 | 200AD      | A2           | 200AD      | A2           | 200AD      | A2           | -          | -            | 200AD      | A2           |
| 200A, based on 250A  | B                 | 200AB      | B1           | 200AB      | B1           | 200AB      | B1           | 200AB      | B1           | 200AB      | B1           |
| 240A, based on 250A  | B                 | 240AB      | B1           | -          | -            | -          | -            | -          | -            | -          | -            |
| 250A                 | B                 | 250AB      | 00           | 250AB      | 00           | 250AB      | 00           | 250AB      | 00           | 250AB      | 00           |
| 300A, based on 250A  | B                 | 300AB      | B1           | 300AB      | B1           | 300AB      | B1           | 300AB      | B1           | 300AB      | B1           |
| 300A, based on 400A  | B                 | 300AB      | B2           | 300AB      | B2           | 300AB      | B2           | 300AB      | B2           | 300AB      | B2           |
| 350A, based on 400A  | B                 | 350AB      | B2           | -          | -            | -          | -            | -          | -            | -          | -            |
| 400A                 | B                 | 400AB      | 00           | 400AB      | 00           | 400AB      | 00           | 400AB      | 00           | 400AB      | 00           |
| 500A, based on 400A  | B                 | 500AB      | B2           | 500AB      | B2           | 500AB      | B2           | 500AB      | B2           | 500AB      | B2           |
| 500A, based on 600A  | B                 | 500AB      | B3           | 500AB      | B3           | 500AB      | B3           | 500AB      | B3           | 500AB      | B3           |
| 600A                 | B                 | 600AB      | 00           | 600AB      | 00           | 600AB      | 00           | 600AB      | 00           | 600AB      | 00           |
| 650A                 | B                 | 650AB      | B3           | -          | -            | -          | -            | -          | -            | -          | -            |
| 750A, based on 600A  | B                 | 750AB      | B3           | 750AB      | B3           | 750AB      | B3           | -          | -            | 750AB      | B3           |
| 750A, based on 1000A | B                 | 750AB      | B4           | 750AB      | B4           | 750AB      | B4           | 750AB      | B4           | 750AB      | B4           |

# B2, B3, B4, B5, B6 MEASURING SHUNTS

| Measuring range       | Version (drawing) | B2 60mV    |              | B3 150mV   |              | B4 50mV    |              | B5 75mV    |              | B6 100mV   |              |
|-----------------------|-------------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
|                       |                   | Range code | Version code | Range code | Version code | Range code | Version code | Range code | Version code | Range code | Version code |
| 800A, based on 600A   | B                 | 800AB      | B3           | 800AB      | B3           | 800AB      | B3           | -          | -            | 800AB      | B3           |
| 800A, based on 1000A  | B                 | 800AB      | B4           | 800AB      | B4           | 800AB      | B4           | 800AB      | B4           | 800AB      | B4           |
| 1kA                   | B                 | 1k00B      | 00           | 1k00B      | 00           | 1k00B      | 00           | 1k00B      | 00           | 1k00B      | 00           |
| 1.2kA, based on 1kA   | B                 | 1k20B      | B4           | 1k20B      | B4           | -          | -            | 1k20B      | B4           | 1k20B      | B4           |
| 1.2kA, based on 1.5kA | B                 | 1k20B      | B5           | -          | -            | -          | -            | 1k20B      | B5           | 1k20B      | B5           |
| 1.2kA, based on 1.5kA | C                 | -          | -            | 1k20C      | C1           | -          | -            | -          | -            | -          | -            |
| 1.5kA                 | B                 | 1k50B      | 00           | 1k50C      | 00           | 1k50B      | 00           | 1k50B      | 00           | 1k50B      | 00           |
| 2kA, based on 1.5kA   | B                 | 2k00B      | B5           | -          | -            | 2k00B      | B5           | 2k00B      | B5           | 2k00B      | B5           |
| 2kA, based on 1.5kA   | C                 | -          | -            | 2k00C      | C1           | -          | -            | -          | -            | -          | -            |
| 2kA, based on 2.5kA   | B                 | 2k00B      | B6           | -          | -            | 2k00B      | B6           | -          | -            | -          | -            |
| 2kA, based on 2.5kA   | C                 | -          | -            | 2k00C      | C2           | -          | -            | 2k00C      | C1           | 2k00C      | C1           |
| 2.5kA                 | B                 | 2k50B      | 00           | -          | -            | 2k50B      | 00           | -          | -            | -          | -            |
| 2.5kA                 | C                 | -          | -            | 2k50C      | 00           | -          | -            | 2k50C      | 00           | 2k50C      | 00           |
| 3kA, based on 2.5kA   | B                 | 3k00B      | B6           | -          | -            | 3k00B      | B6           | -          | -            | -          | -            |
| 3kA, based on 2.5kA   | C                 | -          | -            | 3k00C      | C2           | 3k00C      | C1           | 3k00C      | C1           | 3k00C      | C1           |
| 3kA, based on 4kA     | C                 | 3k00C      | C1           | 3k00C      | C3           | -          | -            | 3k00C      | C2           | 3k00C      | C2           |
| 4kA                   | C                 | 4k00C      | 00           | 4k00C      | 00           | 4k00C      | 00           | 4k00C      | 00           | 4k00C      | 00           |
| 5kA, based on 4kA     | C                 | 5k00C      | C1           | 5k00C      | C3           | 5k00C      | C1           | 5k00C      | C2           | 5k00C      | C2           |
| 5kA, based on 6kA     | C                 | 5k00C      | C2           | 5k00C      | C4           | 5k00C      | C2           | 5k00C      | C3           | 5k00C      | C3           |
| 6kA                   | C                 | 6k00C      | 00           | 6k00C      | 00           | 6k00C      | 00           | 6k00C      | 00           | 6k00C      | 00           |
| 8kA, based on 6kA     | C                 | 8k00C      | C2           | 8k00C      | C4           | 8k00C      | C2           | 8k00C      | C3           | 8k00C      | C3           |
| 8kA, based on 10kA    | C                 | 8k00C      | C3           | 8k00C      | C5           | 8k00C      | C3           | 8k00C      | C4           | 8k00C      | C4           |
| 10kA                  | C                 | 10k0C      | 00           | 10k0C      | 00           | 10k0C      | 00           | 10k0C      | 00           | 10k0C      | 00           |
| 12kA, based on 10kA   | C                 | 12k0C      | C3           | -          | -            | 12k0C      | C3           | -          | -            | -          | -            |
| 12kA, based on 15kA   | C                 | 12k0C      | C4           | -          | -            | 12k0C      | C4           | -          | -            | -          | -            |
| 15kA                  | C                 | 15k0C      | 00           | 15k0C      | 00           | 15k0C      | 00           | 15k0C      | 00           | 15k0C      | 00           |
| 18kA, based on 15kA   | C                 | 18k0C      | C4           | -          | -            | -          | -            | -          | -            | -          | -            |

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