



# DCB-48 LVdc

DCB-48 LVdc, digital voltmeter, 48 x 48

Code: M22120.

- > Scale:  $\pm 10\text{ V}$
- > N° relays: -
- > System: DC
- > Mounting: Pannel
- > Modules: 48 x 48

## Specifications

### AC power supply

|                       |               |
|-----------------------|---------------|
| Installation category | CAT III 300 V |
| Consumption           | 0.8 ... 3 VA  |
| Frequency             | 50/60 Hz      |
| Nominal voltage       | 80...270 V ~  |

### DC power supply

|                       |               |
|-----------------------|---------------|
| Installation category | CAT III 300 V |
| Consumption           | 0.4 ... 0.5 W |
| Nominal voltage       | 80...270 Vdc  |

### Environmental characteristics

|                                          |                         |
|------------------------------------------|-------------------------|
| Protection class                         | Front: IP54, Rear: IP20 |
| Relative humidity (without condensation) | $\leq 95\%$             |
| Storage temperature                      | -40 ... +85 °C          |
| Working temperature                      | -40 ... +70 °C          |

### Mechanical characteristics

|             |                     |
|-------------|---------------------|
| Envelope    | Polycarbonate + ABS |
| Weight (kg) | 0,1                 |

### Voltage measurement circuit

|                                       |                                              |
|---------------------------------------|----------------------------------------------|
| Installation category                 | CAT III 300 V                                |
| Consumption                           | < 0.1 VA                                     |
| Sampling frequency                    | 45...65 Hz                                   |
| Input impedance                       | > 1 MΩ                                       |
| Voltage measuring range               | 45...65 Hz                                   |
| Nominal voltage                       | $\pm 10\text{ V dc}$                         |
| Maximum permanent measurement voltage | 1.2 Un continous, 2 Un instantaneous (1 min) |

### Standards

|                                              |                        |
|----------------------------------------------|------------------------|
| Electrical safety, Maximum height (m)        | 2000                   |
| Electrical safety, Installation category     | CAT III 300 V          |
| Electrical safety, Contamination level/class | Pollution resistance 2 |



# DCB-48 LVdc

Panel-mounted digital instruments

Code: M22120.

|           |                                                                                                                       |
|-----------|-----------------------------------------------------------------------------------------------------------------------|
| Standards | IEC 61010-1, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11 |
|-----------|-----------------------------------------------------------------------------------------------------------------------|

## User interface

|              |              |
|--------------|--------------|
| Keyboard     | 4 keys       |
| Display type | LED 4 digits |

## Measurement accuracy

|                           |       |
|---------------------------|-------|
| Phase voltage measurement | 0.5 % |
|---------------------------|-------|

| CODE               | TYPE            | Scale                                          | Nº relays | System | Modules |
|--------------------|-----------------|------------------------------------------------|-----------|--------|---------|
| Voltmeters         |                 |                                                |           |        |         |
| M22110.            | DCB-48 Vac      | 63,5 V / 100 V / 110 V / 230 V / 380 V / 480 V | -         | AC     | 48 x 48 |
| M22210.            | DCB-72 Vac      | 63,5 V / 100 V / 110 V / 230 V / 380 V / 480 V | -         | AC     | 72 x 72 |
| M22212.            | DCB-72 Vac-20R  | 63,5 V / 100 V / 110 V / 230 V / 380 V / 480 V | 2         | AC     | 72 x 72 |
| M22120.            | DCB-48 LVdc     | ± 10 V                                         | -         | DC     | 48 x 48 |
| M22220.            | DCB-72 LVdc     | ± 10 V                                         | -         | DC     | 72 x 72 |
| M22222.            | DCB-72 LVdc-20R | ± 10 V                                         | 2         | DC     | 72 x 72 |
| M22130.            | DCB-48 HVdc     | ± 500 V                                        | -         | DC     | 48 x 48 |
| M22230.            | DCB-72 HVdc     | ± 1500 V                                       | -         | DC     | 72 x 72 |
| M22232.            | DCB-72 HVdc-20R | ± 1500 V                                       | 2         | DC     | 72 x 72 |
| Ammeters           |                 |                                                |           |        |         |
| M22150.            | DCB-48 Aac      | 1 A / 5 A                                      | -         | AC     | 48 x 48 |
| M22250.            | DCB-72 Aac      | 1 A / 5 A                                      | -         | AC     | 72 x 72 |
| M22252.            | DCB-72 Aac-20R  | 1 A / 5 A                                      | 2         | AC     | 72 x 72 |
| M22170.            | DCB-48 Adc      | 1 A / 5 A                                      | -         | DC     | 48 x 48 |
| M22270.            | DCB-72 Adc      | 1 A / 5 A                                      | -         | DC     | 72 x 72 |
| M22272.            | DCB-72 Adc-20R  | 1 A / 5 A                                      | 2         | DC     | 72 x 72 |
| Process indicators |                 |                                                |           |        |         |
| M22140.            | DCB-48 mVdc     | 60 mV / 75 mV / 100 mV / 150 mV / 200 mV       | -         | DC     | 48 x 48 |
| M22240.            | DCB-72 mVdc     | 60 mV / 75 mV / 100 mV / 150 mV / 200 mV       | -         | DC     | 72 x 72 |
| M22242.            | DCB-72 mVdc-20R | 60 mV / 75 mV / 100 mV / 150 mV / 200 mV       | 2         | DC     | 72 x 72 |
| M22160.            | DCB-48 mAdc     | -20 ... +20 mA / 0...20 mA / 4...20 mA         | -         | DC     | 48 x 48 |
| M22260.            | DCB-72 mAdc     | -20 ... +20 mA / 0...20 mA / 4...20 mA         | -         | DC     | 72 x 72 |
| M22262.            | DCB-72 mAdc-20R | -20 ... +20 mA / 0...20 mA / 4...20 mA         | 2         | DC     | 72 x 72 |

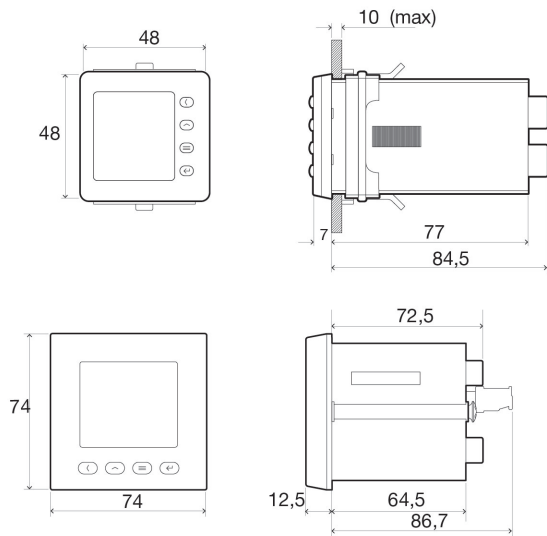


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### Dimensions



Units: mm

### Connections

