

MHS 6

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



The narrow gauge solution for a wide application spectrum:

MICROBOX sets new standards in modern housing technology. The closed housing offers high functionality in a width of just 6.1 mm.

Maximum performance, minimum width:

- 6 easy to use clamping points in 2 connection systems
- Clamping yoke connection for conductors up to 2.5mm²
- Tension clamp connection for conductors up to 1.5mm²
- Vibration-resistant contacts
- Vibration-free terminal rail mounting
- Enclosure wall clipped on securely

Miniaturisation with the MICROBOX: high component density is possible due to the narrow design.

MICROBOX helps developers to fulfil demanding market requirements for ever shrinking dimensions by optimising space utilisation.

General ordering data

| | |
|------------|--------------------------------------------------------------------------|
| Version | Small housing, OMNIMATE Housing - MICROBOX Pebble grey, Width: 6.1 mm |
| Order No. | 1925740000 |
| Type | MHS 6 |
| GTIN (EAN) | 4032248567935 |
| Qty. | 10 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Height | 97.8 mm | Height (inches) | 3.85 inch |
| Width | 6.1 mm | Width (inches) | 0.24 inch |
| Length | 88 mm | Length (inches) | 3.465 inch |
| Net weight | 33.1 g | | |

Temperatures

| | | | |
|-----------------------------|--------|-----------------------------|--------|
| Operating temperature, min. | -50 °C | Operating temperature, max. | 120 °C |
|-----------------------------|--------|-----------------------------|--------|

Rated data acc. to IEC

| | | | |
|-----------------------------------------------------------------------|-------|---------------------------------------------------------------------------|-------|
| Rated current, max. number of poles (Tu=20°C) | 10 A | Rated current, max. number of poles (Tu=40°C) | 10 A |
| Rated voltage for surge voltage class / pollution degree II/2 | 400 V | Rated voltage for surge voltage class / pollution degree III/2 | 320 V |
| Rated voltage for surge voltage class / pollution degree III/3 | 250 V | Rated impulse voltage for surge voltage class/ pollution degree II/2 | 4 kV |
| Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV | Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV |

Design - IN requirements

| | | | |
|---------------|------|-----------------------------|---------|
| PCB thickness | 1 mm | Tolerance for the PCB shape | ±0.1 mm |
|---------------|------|-----------------------------|---------|

Assembly properties

| | | | |
|---------------------------------------------|---------------------------|----------------------------------------|--------------------------|
| Number of connection levels | 3 | Continuous current of cross-connection | 10 A |
| Continuous current of cross-connection/ PCB | 32 A | Cross-connection | Yes |
| Type of contact to PCB | Solder connection, direct | Type of connection | Clamping yoke connection |

Connectable conductors

| | | | |
|-----------------------------------------|----------------------|-----------------------------------------|-------------------|
| Clamping range, min. | 0.13 mm ² | Clamping range, max. | 4 mm ² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 12 |
| Solid, min. H05(07) V-U | 0.5 mm ² | Solid, max. H05(07) V-U | 4 mm ² |
| Flexible, min. H05(07) V-K | 0.5 mm ² | Max. clamping range | 4 mm ² |

General data

| | | | |
|----------------------|-------------|------------------------|----------|
| Colour | Pebble grey | Colour chart (similar) | RAL 7032 |
| Encapsulation option | Yes | Protection degree | IP20 |

Material data

| | | | |
|---------------------------|------------|---------------------------|------|
| Insulating material | Wemid (PA) | Insulating material group | IIIa |
| UL 94 flammability rating | V-0 | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC001031 | ETIM 7.0 | EC001031 |
| ETIM 8.0 | EC001031 | ECLASS 9.0 | 27-18-27-02 |
| ECLASS 9.1 | 27-18-27-92 | ECLASS 10.0 | 27-18-27-02 |
| ECLASS 11.0 | 27-18-27-02 | ECLASS 12.0 | 27-18-27-02 |

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Technical data**Approvals**

| | |
|------|---------|
| ROHS | Conform |
|------|---------|

Downloads

| | |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Data | CAD data – PCB contour with soldering pads CAD data – STEP |
| Technical Documentation | PCB contour drawing |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN PO OMNIMATE EN |

Data sheet

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Drawings

