

**SK DEMO CH20M22****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****The perfect platform for function and innovation:**

Innovative function electronics require intelligent "packages" in order to integrate perfectly in the system environment.

The ongoing development and consistent expansion of the Weidmüller electronics housing portfolio provides a secure platform for future electronics applications whatever the design or intended use. CAD data for PCBs is provided for all enclosures. Screw and tension clamp terminals are available for all connections.

The consistent synergy between design, connection system and functionality lays the perfect foundation stone for electronics systems designed in line with market and application requirements.

Function, shape and manufacturing quality combine into a single logical unit that provides maximum reliability and operating comfort for the user.

**General ordering data**

|            |                                                                                                                                                                    |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | Electronics housing sample, OMNIMATE Housing - series CH20M black, Reference product housing CH20M22, fully mounted, including 4 female connectors, Width: 22.5 mm |
| Order No.  | <a href="#">1105600000</a>                                                                                                                                         |
| Type       | SK DEMO CH20M22                                                                                                                                                    |
| GTIN (EAN) | 4032248880942                                                                                                                                                      |
| Qty.       | 1 pc(s).                                                                                                                                                           |

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## Technical data

## Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Height         | 113.6 mm   | Height (inches) | 4.472 inch |
| Length         | 119.2 mm   | Length (inches) | 4.693 inch |
| Net weight     | 132.9 g    | Width           | 22.5 mm    |
| Width (inches) | 0.886 inch |                 |            |

## Temperatures

|                          |                |          |                                                   |
|--------------------------|----------------|----------|---------------------------------------------------|
| Installation temperature | -25 °C...85 °C | Humidity | 5 - 93% rel. humidity, Tu = 40°C, no condensation |
|--------------------------|----------------|----------|---------------------------------------------------|

## Rated data acc. to IEC

|                                                                           |                        |                                                                       |       |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, max. number of poles (Tu=20°C)                         | 10 A  |
| Rated current, max. number of poles (Tu=40°C)                             | 9 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      | 250 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                        | 1.6 mm   | Tolerance for the PCB shape | ±0.1 mm |
| Tolerance of circuit board thickness | ±0.15 mm |                             |         |

## Assembly properties

|                             |           |                            |                           |
|-----------------------------|-----------|----------------------------|---------------------------|
| Number of connection levels | 2         | Number of PCB boards, max. | 1                         |
| Number of cooling levels    | 1         | Number of poles            | 4                         |
| Cross-connection            | No        | Type of contact to PCB     | Solder connection, direct |
| Type of connection          | pluggable |                            |                           |

## Housing properties

|                       |          |                                                       |     |
|-----------------------|----------|-------------------------------------------------------|-----|
| Flip cover mountable  | Yes      | Marker integrateable                                  | Yes |
| Safety lock           | sealable | Cut out as preparation for functional port integrated | No  |
| Color of clip-on foot | orange   |                                                       |     |

## Connectable conducteurs

|                                                 |                      |                                                 |                     |
|-------------------------------------------------|----------------------|-------------------------------------------------|---------------------|
| Stripping length                                | 8 mm                 | Blade size                                      | 0.6 x 3.5 mm        |
| Tightening torque, min.                         | 0.4 Nm               | Tightening torque, max.                         | 0.5 Nm              |
| Clamping range, min.                            | 0.13 mm <sup>2</sup> | Clamping range, max.                            | 2.5 mm <sup>2</sup> |
| Wire connection cross section AWG, min.         | AWG 26               | Wire connection cross section AWG, max.         | AWG 14              |
| Solid, min. H05(07) V-U                         | 0.2 mm <sup>2</sup>  | Solid, max. H05(07) V-U                         | 2.5 mm <sup>2</sup> |
| Stranded, max. H07V-R                           | 2.5 mm <sup>2</sup>  | Flexible, min. H05(07) V-K                      | 0.2 mm <sup>2</sup> |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.25 mm <sup>2</sup> | w. plastic collar ferrule, DIN 46228 pt 4, max. | 2.5 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.25 mm <sup>2</sup> | w. wire end ferrule, DIN 46228 pt 1, max.       | 2.5 mm <sup>2</sup> |
| Max. clamping range                             | 2.5 mm <sup>2</sup>  |                                                 |                     |

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## Technical data

## General data

|                      |       |                        |          |
|----------------------|-------|------------------------|----------|
| Colour               | black | Colour chart (similar) | RAL 9011 |
| Encapsulation option | No    | Protection degree      | IP20     |

## Material data

|                                  |       |                           |             |
|----------------------------------|-------|---------------------------|-------------|
| Comparative Tracking Index (CTI) | ≥ 550 | Insulating material       | PA 66 GF 30 |
| Insulating material group        | II    | UL 94 flammability rating | V-0         |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001031    | ETIM 7.0    | 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 |

## Important note

|                     |                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product information | Circuit board contour, restricted zones, and other information for the design in of the circuit board can be found in the category connection technology under the corresponding male headers in the downloads. |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Approvals

Approvals



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

## Downloads

|                    |                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| Engineering Data   | <a href="#">PCB_position_50881_LP-POSITION_22MM</a><br><a href="#">Pin_header_pin_length_CH20M_A_OV_PCB-SHL_70315</a> |
| User Documentation | <a href="#">Guideline customerspecific housings</a><br><a href="#">Guideline kundenspezifische Gehäuse</a>            |

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## Drawings

### Dimensional drawing

