

MAX PCU DC650 40**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**General ordering data**

| | |
|------------|----------------------------|
| Version | |
| Order No. | 2921580000 |
| Type | MAX PCU DC650 40 |
| GTIN (EAN) | 4099986615007 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|--------|-----------------|------------|
| Depth | 130 mm | Depth (inches) | 5.118 inch |
| Height | 130 mm | Height (inches) | 5.118 inch |
| Width | 50 mm | Width (inches) | 1.969 inch |
| Net weight | 999 g | | |

Temperatures

| | | | |
|-----------------------------------|---|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -25 °C...70 °C |
| Humidity at operating temperature | 5...95 % rel. humidity, no condensation | | |

Input

| | | | |
|--|---------|---|---------|
| Blackout voltage, max. | 400 V | Blackout voltage, min. | 0 V |
| Connection system | PUSH IN | Emergency voltage, max. | 600 V |
| Emergency voltage, min. | 400 V | Input fuse (internal) | 5 A |
| Overvoltage error, min. | 1,200 V | Overvoltage, max. | 1,200 V |
| Overvoltage, min. | 880 V | Rated current | 1.5 A |
| Rated input voltage, max. | 750 | Reverse polarity protection (L+, L- reverse polarity) | 100 % |
| Standby power consumption (pre charge completed) | 7 W | Temporary overvoltage for 5 sec, max. | 880 V |
| Temporary overvoltage for 5 sec, min. | 800 V | Rated input voltage | 650 V |

Output

| | |
|-------------------|---------|
| Connection system | PUSH IN |
|-------------------|---------|

Output DC Bus

| | | | |
|--------------------------|------------------|--|---------|
| DC charge current, max. | 0.7 A | Maximum capacitive load of DC sector | 0.72 mF |
| Pre charge time, typ. | 2 s (max. 4 s) | Rated output voltage (L+PC) corresponds to rated input voltage | Yes |
| Type of current limiting | Constant current | | |

Output bypass switch

| | | | |
|------------------------------|--------|-------------------------|------|
| Maximum current of DC sector | 40.5 A | Output voltage (+ 20 %) | 24 V |
| Rated current | 1.5 A | | |

General data

| | | | |
|-------------------------------------|----------------------------|----------------------------|-----------------------------|
| Housing version | Metal, corrosion resistant | Mains buffering time, min. | 20 ms |
| Maximum device capacity, typ. | 100 µF | Maximum operating altitude | 5,000 m |
| Mounting position (Regard derating) | Any | Protection circuits | Over temperature protection |
| Protection degree | IP20 | Surge voltage category | II |

EMC / shock / vibration

| | | | |
|------------------------------------|----------------------|---------------------------------|------------------------|
| Interference immunity test acc. to | DIN EN IEC 61000-6-2 | Shock resistance IEC 60068-2-27 | 30 g in all directions |
| Vibration resistance IEC 60068-2-6 | 4 g | | |

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Insulation coordination

| | | | |
|----------------------------------|-----------------------|-----------------------------------|------|
| Insulation voltage input / earth | 6 kV | Insulation voltage output / earth | 6 kV |
| Insulation voltage, input/output | 6 kV | Pollution severity | 2 |
| Protection class | I, with PE connection | Surge voltage category | II |

Electrical safety (applied standards)

| | |
|--|-------------------------------|
| DC grid behavior 400 ... 880 V DC according to | System concept DC Industry V3 |
|--|-------------------------------|

Connection data (input)

| | | | |
|---|---------------------|---|--------------------|
| Conductor cross-section, AWG/kcmil , max. | 4 AWG | Conductor cross-section, AWG/kcmil , min. | 18 AWG |
| Conductor cross-section, flexible , min. | 0.5 mm ² | Conductor cross-section, rigid , max. | 16 mm ² |
| Conductor cross-section, rigid , min. | 0.5 mm ² | Connection system | PUSH IN |
| Screwdriver blade | 0.8 x 4.0 | Screwdriver blade (input) | 0.8 x 4.0 |
| Wire connection cross section, flexible (input), max. | 25 mm ² | | |

Connection data (output)

| | | | |
|---|--------------------|---|---------------------|
| Conductor cross-section, AWG/kcmil , max. | 4 AWG | Conductor cross-section, AWG/kcmil , min. | 18 AWG |
| Conductor cross-section, flexible , max. | 25 mm ² | Conductor cross-section, flexible , min. | 0.5 mm ² |
| Conductor cross-section, rigid , max. | 16 mm ² | Conductor cross-section, rigid , min. | 0.5 mm ² |
| Connection system | PUSH IN | Screwdriver blade | 0.8 x 4.0 |
| Stripping length (output) | 18 mm | | |

Connection data (signal)

| | | | |
|--|---------------------|--|---------------------|
| Screwdriver blade (signal) | 0.4 x 2.5 | Wire connection cross-section, flexible (signal), max. | 1.5 mm ² |
| Wire connection cross-section, flexible (signal), min. | 0.2 mm ² | Wire connection method | PUSH IN |
| Wire cross-section, AWG/kcmil , max. | 14 | Wire cross-section, AWG/kcmil , min. | 24 mm ² |
| Wire cross-section, solid , max. | 1.5 mm ² | Wire cross-section, solid , min. | 0.2 mm ² |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 7.0 | EC002045 | ETIM 8.0 | EC002045 |
| ETIM 9.0 | EC002045 | ECLASS 11.0 | 27-04-07-02 |
| ECLASS 12.0 | 27-04-07-02 | ECLASS 13.0 | 27-04-07-02 |

Downloads

| | |
|------------------|--|
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |

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Drawings

