

## IEC Appliance Inlet C14 or C18 with Circuit Breaker TA45



### Description

- Panel Mount:  
Screw-on mounting from front side
- 2 Functions:  
Appliance Inlet protection class I or II, circuit breaker type TA45 2-pole
- Quick connect terminals 6.3 x 0.8 mm

### Approvals

- VDE Certificate Number: 40040061
- UL File Number: E96454

### Characteristics

- All single elements are already wired  
Unwired versions available on request
- Circuit Breaker non-illuminated or illuminated
- Suitable for use in equipment according to IEC/UL 60950

### References

Alternative: version with line filter [5145](#)  
We recommend for new applications the new type [DF11](#)

### Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Mating Connectors](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [CAD-Drawings](#), [Accessories](#), [Detailed request for product](#)

Newly available variants corresponding to V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

### Technical Data

|                           |                                                                         |                  |                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Ratings IEC               | 10 A / 250 VAC; 50 Hz                                                   | Appliance Inlet  | C14 acc. to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I or II |
| Ratings UL/CSA            | 15 A / 250 VAC; 60 Hz                                                   |                  |                                                                                                                             |
| Dielectric Strength       | > 1.5 kVAC between L/N-PE (1 min/50 Hz)                                 |                  |                                                                                                                             |
| Allowable Operation Temp. | -10 °C to 55 °C                                                         | Circuit Breakers | Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235                                                                                |
| Degree of Protection      | from front side IP 40 acc. to IEC 60529                                 |                  | 2-pole rocker switch, illuminated or non-illuminated. Optional with undervoltage- or remote trip release                    |
| Protection Class          | Suitable for appliances with protection class I or II acc. to IEC 61140 |                  | Short circuit capacity Icn:<br>at In < 3A/240VAC : 10 x In<br>at In ≥ 3A/240VAC : 300A                                      |
| Terminal                  | Quick connect terminals 6.3 x 0.8 mm                                    |                  |                                                                                                                             |
| Panel Thickness s         | Screw: max 6 mm<br>Mounting screw torque max 0.5 Nm                     |                  |                                                                                                                             |
| Material: Housing         | Thermoplastic, black, UL 94V-0                                          |                  |                                                                                                                             |

Technical drawing of the M3000 1000W power supply unit, showing front, side, and detail views with dimensions.

**Front View Dimensions:**

- Overall width: 36
- Overall height: 91.5
- Mounting hole spacing (center-to-center): 80

**Side View Dimensions:**

- Overall depth: 43
- Mounting flange thickness: 6.3x0.8mm
- Internal component depth: 24.2
- Base thickness: 13.5
- Total depth (including base): 67.5\*
- Internal component depth (dashed line): 6.3x0.8mm

**Detail A Dimensions:**

- Top flange thickness: 2
- Internal flange thickness: 1
- Internal hole diameter:  $\phi 3.25$
- Outer hole diameter:  $\phi 6$

**Top View Dimensions:**

- Overall width: 29<sup>0</sup>/<sub>+0.2</sub>
- Mounting hole spacing (center-to-center): 72<sup>0</sup>/<sub>+1</sub>
- Overall height: 80<sup>0</sup>/<sub>+0.1</sub>
- Internal component height: 72<sup>0</sup>/<sub>+1</sub>
- Mounting hole diameter: M3/ø 3.6
- Internal hole diameter: R 3<sup>0</sup>/<sub>+0.5</sub>

- 1) Line
- 2) Load

Table 1 Selection for type TA45

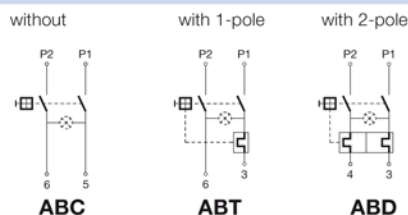
Order example



- Line switch
- 2-pole, rocker actuated
- Quick connect terminal
- Other types on request

#### Diagram

Thermal overload protection



Without illumination

ABC

ABT

ABD

With illumination

220...240 V  
110...120 V

A02  
A04

A12  
A14

A32  
A34

#### Colours

##### Switch front

W black  
B black  
6 black

##### Rocker

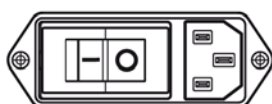
white  
black  
— orange transp.

#### Rocker legend

| Surface              | Illustration | Colour of print |
|----------------------|--------------|-----------------|
| F embossed / Relief  | — ○          |                 |
| H printed / bedruckt | ON OFF       | white / weiss   |
| K printed / bedruckt | ON OFF       | black / schwarz |
| L printed / bedruckt | — ○          | white / weiss   |

| Surface   | Illustration | Colour of print |
|-----------|--------------|-----------------|
| M printed | — ○          | black           |
| P printed | I ○          | white           |
| R printed | I ○          | black           |

Position of the rocker legend  
e.g F



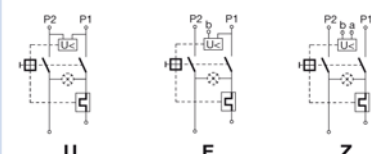
#### Rated current:

- Without thermal overload protection: code C00 }  $I_n = 20 \text{ A}$
- With thermal overload protection: rated current  $I_n \text{ (A)}$

| $I_n$ | Code | $I_n$ | Code | $I_n$ | Code | $I_n$ | Code |
|-------|------|-------|------|-------|------|-------|------|
| 0,1   | J01  | 1,3   | J13  | 2,8   | J28  | 10,0  | 100  |
| 0,2   | J02  | 1,4   | J14  | 3,0   | 030  | 11,0  | 110  |
| 0,3   | J03  | 1,5   | J15  | 3,5   | 035  | 12,0  | 120  |
| 0,4   | J04  | 1,6   | J16  | 4,0   | 040  | 13,0  | 130  |
| 0,5   | J05  | 1,7   | J17  | 4,5   | 045  | 14,0  | 140  |
| 0,6   | J06  | 1,8   | J18  | 5,0   | 050  | 15,0  | 150  |
| 0,7   | J07  | 1,9   | J19  | 6,0   | 060  |       |      |
| 0,8   | J08  | 2,0   | J20  | 6,5   | 065  |       |      |
| 0,9   | J09  | 2,1   | J21  | 7,0   | 070  |       |      |
| 1,0   | J10  | 2,2   | J22  | 7,5   | 075  |       |      |
| 1,1   | J11  | 2,3   | J23  | 8,0   | 080  |       |      |
| 1,2   | J12  | 2,5   | J25  | 9,0   | 090  |       |      |

#### Without release: code C0

##### Undervoltage release



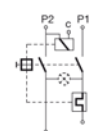
U

E

Z

|   |   |   |
|---|---|---|
| • | • | • |
| • | • | • |
| • | • | • |

##### Remote trip release



A

Code

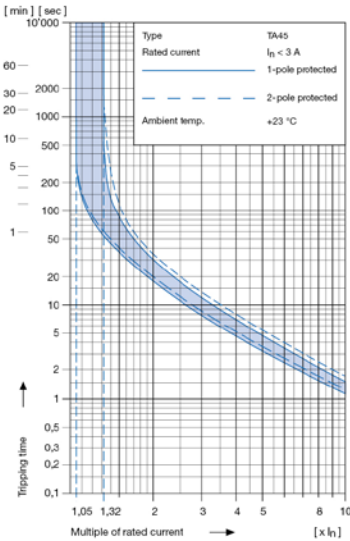
Rated  
voltage  $U_n$

|   |   |          |
|---|---|----------|
| • | 2 | 240 V AC |
| • | 3 | 230 V AC |
| • | 4 | 120 V AC |

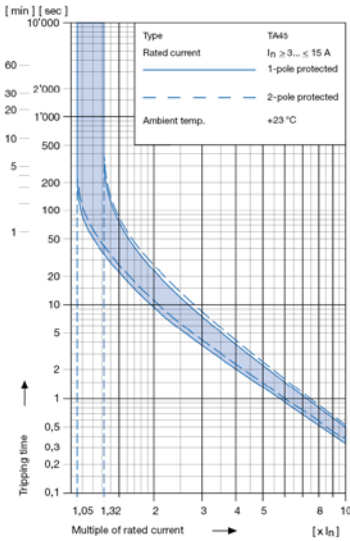
ABT W F 150 C0

Technical data (continued)  
Circuit breaker

Tripping characteristics  
 $I_n < 3\text{ A}$



Tripping characteristics  
 $I_n \geq 3 \dots \leq 15\text{ A}$



Effect of ambient temperature 1)

The unit is calibrated for an ambient temperature of +23 °C. To determine the rated current for a lower or higher ambient temperature, use a correction factor from the table below.

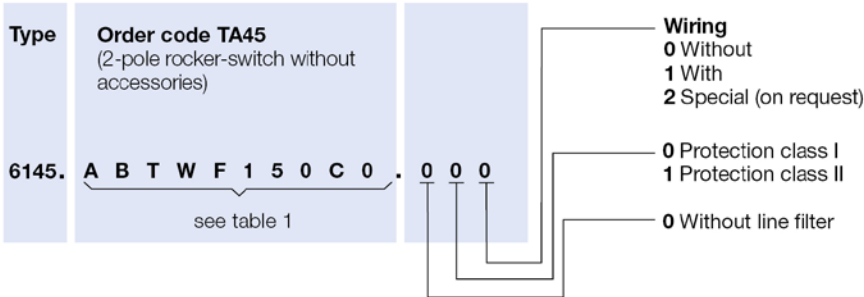
| * Ambient temperature [°C] | Correction factor |
|----------------------------|-------------------|
| -10                        | 0,89              |
| - 5                        | 0,91              |
| 0                          | 0,92              |
| +23                        | 1,00              |
| +30                        | 1,03              |
| +40                        | 1,08              |
| +55                        | 1,16              |

\* Temperature must be measured at the rear of the breaker next to the terminals after equipment operating temperature has been reached.

1) Example

|                                                     |                           |
|-----------------------------------------------------|---------------------------|
| Rated current at +23 °C                             | 6,0 A                     |
| Ambient temperature                                 | +40 °C                    |
| Correction factor                                   | 1,08                      |
| Chosen rated current at + 40 °C ambient temperature | <b>6 A x 1,08 = 6,5 A</b> |

Order code (Order example)

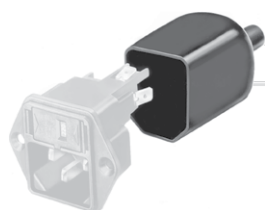


Please note that Schurter will establish an internal part number for logistical use in addition to the order code. The format of this internal part number is, for example 6145.0031.001

Packaging unit 20 Pcs

## Accessories

### Description



Assorted Covers  
Rear Cover

0859.0074

## Mating Outlets/Connectors

### Category / Description



#### Appliance Outlet Overview complete

|                                                                                                   |      |
|---------------------------------------------------------------------------------------------------|------|
| IEC Appliance Outlet F, Screw-on Mounting, Front Side, Solder Terminal                            | 4787 |
| IEC Appliance Outlet F, Snap-in Mounting, Front Side, Solder or Quick-connect Terminal            | 4788 |
| IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal | 5091 |

Appliance Outlet further types to 6145



#### Connector Overview complete

|                                                                                              |         |
|----------------------------------------------------------------------------------------------|---------|
| 4782 Mounting: Power Cord, 3 x 1 mm <sup>2</sup> / 3 x 18 AWG, Cable, Connector: IEC C13     | 4782    |
| 4022 Mounting: Power Supply Cord, 3 x 1.5 mm <sup>2</sup> , Screw clamps, Connector: IEC C13 | 4022    |
| 4785 Mounting: Power Cord, 3 x 1 mm <sup>2</sup> / 3 x 18 AWG, Cable, Connector: IEC C13     | 4785    |
| 4300-06 Mounting: Power Cord, 3 x 1 mm <sup>2</sup> / 3 x 18 AWG, Cable, Connector: IEC C13  | 4300-06 |
| 4012 Mounting: Power Supply Cord, 3 x 1.5 mm <sup>2</sup> , Screw clamps, Connector: IEC C13 | 4012    |

Connector further types to 6145

...