# IEC Appliance Inlet C20 with Circuit Breaker TA35 1-pole

new







C20

70° C

## Description
- Panel Mount:
  Snap-in version from front side
- 2 Functions:
  Appliance Inlet, Protection class I, Circuit breaker type TA35, 1-pole
- Quick connect terminals 6.3 x 0.8 mm
- Alternative: version for 10 A (15 A) 6135
- Substitute for type 1624-K

## Approvals
- VDE License Number: 40025196
- UL License Number: E96454

## Characteristics
- Unwired
- Switch non-illuminated or illuminated
  Thermal overload protection
- Qualified for use in equipment according IEC/EN 60950

## Other versions on request
- Pre-wired version
- Quick-connect terminals 4.8 x 0.8 mm
- Protection class II, 70°C

## References
General Product Information

## Weblinks
Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

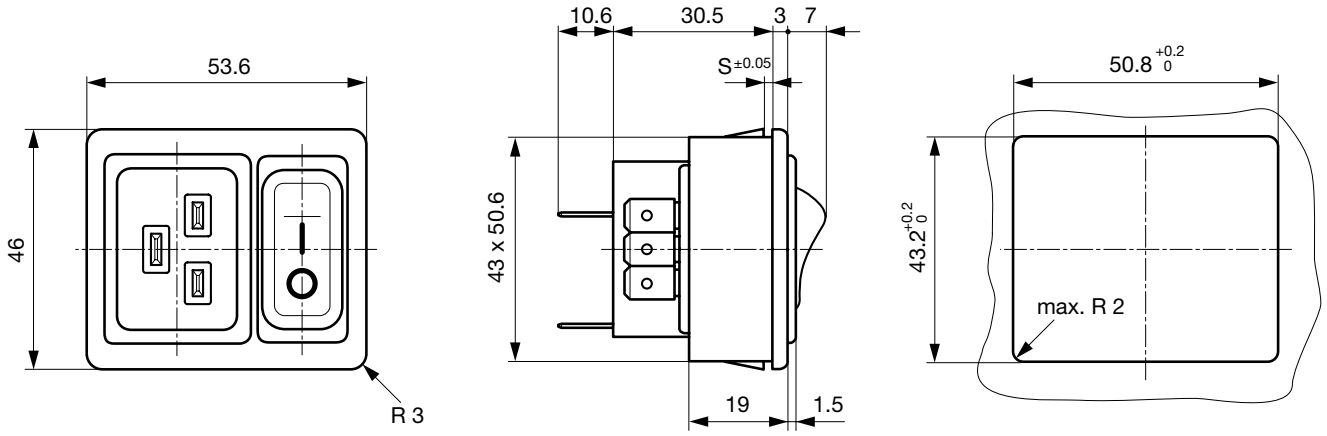
## Technical Data

| | |
|---|---|
| Ratings IEC | 16 A / 250 VAC; 50 Hz |
| Ratings UL/CSA | 20 A / 250 VAC; 60 Hz |
| Dielectric Strength | > 2.5 kVAC between L-N<br>> 3 kVAC between L/N-PE<br>(1 min/50 Hz) |
| Allowable Operation Temp. | -25 °C to 60 °C |
| Degree of Protection | from front side IP 40 acc. to IEC 60529 |
| Protection Class | Suitable for appliances with protection class I acc. to IEC 61140 |
| Terminal | Quick connect terminals 6.3 x 0.8 mm |
| Panel Thickness s | Snap-in: 1.5/ 2/ 2.5 mm |
| Material: Housing | Thermoplastic, black, UL 94V-0 |

| | |
|---|---|
| Appliance-Inlet/-Outlet | C20 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 16 A, Protection class I |
| Circuit breaker | Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235<br>1-pole rocker switch, illuminated or non-illuminated.<br>Conditional short circuit Inc:<br>2000 A |

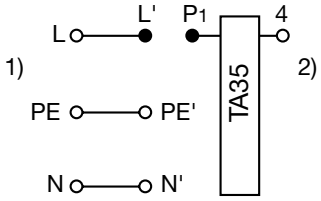
## Dimensions

Length 53.6 mm



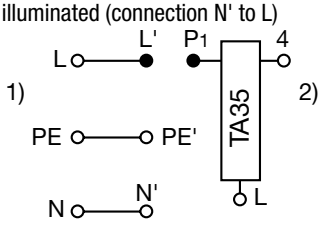

## Diagrams

non-illuminated



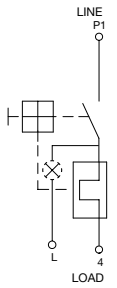

1) Line
2) Load

illuminated (connection N' to L)




1) Line
2) Load

## ORDER CODE

| Number of switched poles<br>Number of protected poles | | | **1-pole**<br>**1** |
|---|---|---|---|
| | | |  |
| Switch | without illumination | | **CFT** |
| Switch | illuminated | 240 V<br>120 V | **C2F**<br>**C4F** |

Other versions on request

**Table 1 Selection for type TA35**

Order example

**TA35-** | **CFT** | **W** | **F** | **120** | **C0**

C0: No other features

### Colours

| | Switch front | Rocker non-illuminated | Rocker illuminated |
|---|---|---|---|
| **W** | black | white | – |
| **B** | black | black | – |
| **3** | black | – | red transparent |
| **4** | black | – | green transparent |
| **6** | black | – | orange transparent |

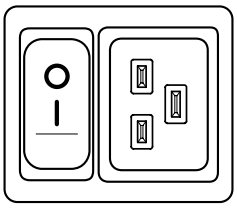
Other colours on request

### Rocker legend

| | Surface | Illustration | | Colour of print |
|---|---|---|---|---|
| **F** | embossed | – | 0 | |
| **H** | printed | ON | OFF | white |
| **K** | printed | ON | OFF | black |
| **L** | printed | – | 0 | white |
| **M** | printed | – | 0 | black |

Other legends on request

Position of the rocker legend e.g. F



### Rated current $I_n$ (A)

| $I_n$ | Code | $I_n$ | Code |
|---|---|---|---|
| 1,0 | **J10** | 8,0 | **080** |
| 2,0 | **J20** | 10,0 | **100** |
| 4,0 | **040** | 12,0 | **120** |
| 5,0 | **050** | 15,0 | **150** |
| 6,0 | **060** | 16,0 | **160** |
| | | 20,0 | **200*** |

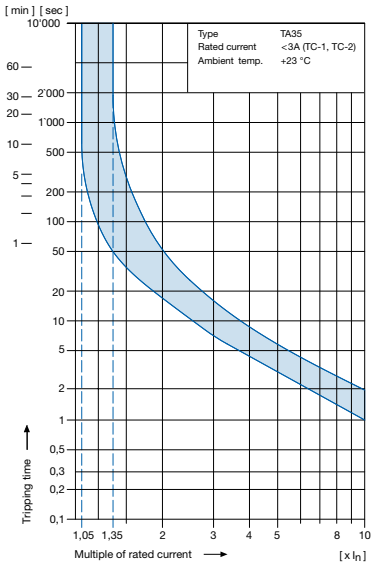
Other rated currents on request

*) UL / CSA only

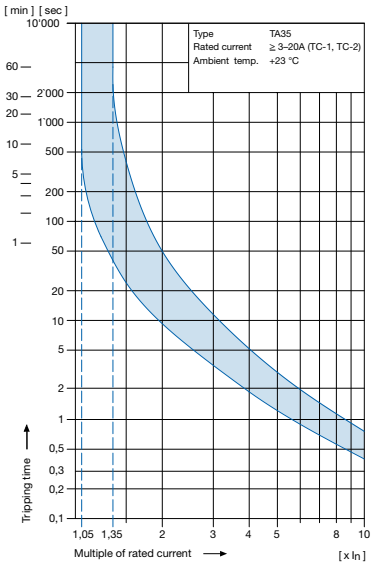
## Technical data (continued)

### Circuit breaker

Tripping characteristics
$I_n$ < 3 A




Tripping characteristics
$I_n \geq 3 \ldots 20$ A




### Effect of ambient temperature

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

| * Ambient temperature [°C] | Correction factor |
|---|---|
| –25 | 0.79 |
| –20 | 0.81 |
| 0 | 0.90 |
| +23 | 1.00 |
| +40 | 1.03 |
| +50 | 1.04 |
| +60 | 1.06 |

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

**Example:**

| | |
|---|---|
| Rated current at +23 °C | 10 A |
| Ambient temperature | +60 °C |
| Correction factor | 1.06 |
| Chosen rated current at +60 °C ambient temperature: | **10 A x 1.06 = 10.6 A** |

### Order code (Order example)

| Type | Order code TA35 | |
|---|---|---|
| 6136 | C F T W F 1 2 0 C 0 (see table 1) | . 0 2 1 0 |

**Wiring**
**1** wired
**0** unwired

**Terminals**
**1** Quick connect 6.3 x 0.8 mm

**Mounting**
**2** Snap-in s = 1.5 mm
**3** Snap-in s = 2.0 mm
**4** Snap-in s = 2.5 mm

**0** Protection class 1

Please note that Schurter will establish an internal part number for logistics use in addition to the order code. The format of this internal part number is, for example: 6136.xxxx.xxxx

**Packaging unit** 15 Pcs

## Mating Outlets/Connectors



**Category / Description**

Connector

| | |
|---|---|
| IEC Connector C19, Rewireable, Straight | 0104 |
| IEC Connector C19, Rewireable, Angled | 1651 |
| IEC Connector C19, Rewireable, Straight | 1652 |
| IEC Connector C19, Rewireable, Angled | 4790 |
| IEC Connector C19, Rewireable, Straight | 4795 |



Power Cord

| | |
|---|---|
| Power Cord with IEC Connector C19, Straight | 1654 |



Power Supply or Interconnection Cord

| | |
|---|---|
| Diverse Netzanschluss- oder Netzweiterverbidungsleitung 16 A | 6009.5195 |

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments.