

Product data

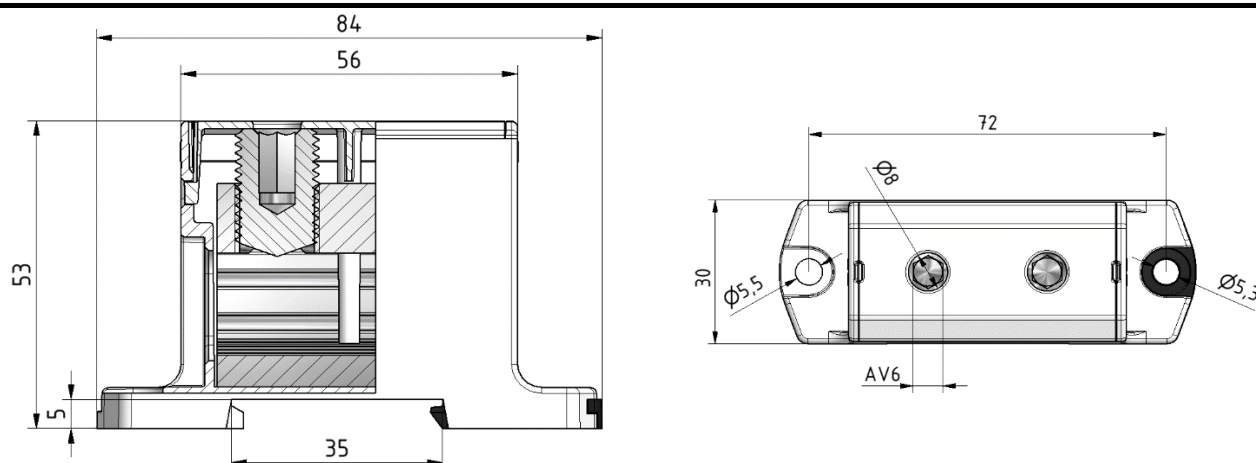
| | | | | | |
|--------------|---|----------|----------------|----------|----------------------|
| Product code | VC05-0024 | STK-code | 1914120 | EAN-code | 6410019141207 |
| Product name | OTL-connector 1xAl/Cu 120mm ² (Yellow/Green) | | | | |
| Wires | 1xAl/Cu 120mm ² | | | | |

Technical data

| | | | |
|----------------------------|--|-------------|-----------------|
| Nominal current | Cu | 280 | A |
| | Al | 250 | A |
| Nominal voltage | | 690 | V |
| Max. Current (US) | Cu | - | A |
| | Al | - | A |
| Max. Voltage (US) | | - | V |
| Number of pole | | 1 | pcs |
| Max. Cross section | | 120 | mm ² |
| Tightening torque | 16-35 mm ² | 12 | Nm |
| | 50-120 mm ² | 25 | Nm |
| | - | - | Nm |
| | - | - | Nm |
| Max. Operating temperature | | 80 | °C |
| Weight | | 85 | g |
| IP-protection | | IP20 | |
| Standards | EN 61238-1; EN60947-7-1 | | |
| Color/ Material | Green RAL 6018, Yellow RAL 1016/ PA66 | | |
| Mounting/ Connection | DIN-rail and screw (M5) mounting | | |


Description

OTL-connectors are designed to be used connecting and branching aluminium and copper conductors. Bodies are made of tin-plated aluminium.

Drawing

Package

| | | | | | |
|-------------|------------|--------------|------------|-------------|-------------|
| Package | Box | pcs/ package | 15 | Weight [Kg] | 1,45 |
| Length [mm] | 210 | Width [mm] | 155 | Height [mm] | 105 |

| Product data | | | | | | | |
|------------------|---|----------|----------|-------|--------------|--------------|-----------|
| Product code | Product name | I_n Al | I_n Cu | U_n | I_{max} Al | I_{max} Cu | U_{max} |
| VC05-0022 | OTL-connector 1xAl/Cu 120mm ² (Grey) | 250 A | 280 A | 690 V | - | - | - |
| VC05-0023 | OTL-connector 1xAl/Cu 120mm ² (Blue) | 250 A | 280 A | 690 V | - | - | - |
| VC05-0024 | OTL-connector 1xAl/Cu 120mm ² (Yellow/Green) | 250 A | 280 A | 690 V | - | - | - |
| | | | | | | | |
| | | | | | | | |

| Installation | |
|--------------|---|
| Type | DIN-rail and screw (M5) mounting |


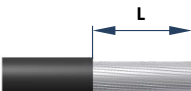


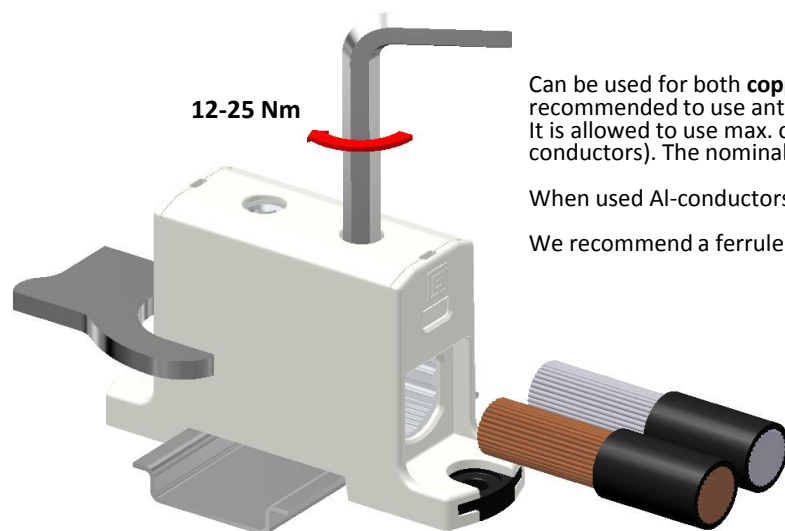
DIN-rail mounting
Set the connector to DIN-rail.
See picture. Push until "click"
Removing
Release the slider and lift connector



Screw mounting
Use max. Ø5 mm screw.
See picture .



| Connection | | | | | | | |
|------------|---|-----|-------------------|-------------------------|-------|---------------------|---|
| Screw | Thread | M14 | Tightening torque | 16-35 mm ² | 12 Nm | Stripping lenght L | 20 mm |
| | SW | 6 | | 50-120 mm ² | 25 Nm | | |
| | | | | - | - | | |
| | | | | - | - | | |
| |  | | | Max. Wire cross section | | 120 mm ² |  |



Installation

Can be used for both **copper- or aluminium conductors**. With the Al-conductors, It's recommended to use anti-corrosion paste. (i.e. Penetrox).
It is allowed to use max. of three adjacent cross-sections in one space (Copper conductors). The nominal max. cross-section value must not be exceeded.

When used Al-conductors, it is allowed to use only one conductor/ one space.

We recommend a ferrule when using a fine-stranded conductor.

Each protective conductor must have their own conductor space. SFS 6000:1999 clause 810.2.6

| Cross-section of conductors and number of conductors/ space. (Al-conductors in parenthesis) | | | | | | | | | |
|---|---------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------------------|--|---------------------|
| 1,5 mm ² | 2,5 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | The conductors number on table refer only to industrially installed terminals. | |
| 0 | 0 | 0 | 0 | 3 (1) | 3 (1) | 3 (1) | 2 (1) | | |
| | | | | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² |
| | | | | 1 (1) | 1 (1) | 1 (1) | 0 | 0 | 0 |
| | | | | | | | | | |
| | | | | | | | | | |