OUNEVA GROUP

INSTALLATION GUIDE

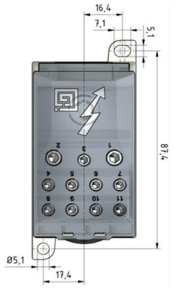
27.1.2025

Product data

Product code	Product name	$I_{n\,Al}$	$I_{n\,Cu}$	U_n	US specific		
					$I_{max\,Al}$	$I_{max\,Cu}$	U_{max}
VG03-0003	OJL-connector 280	250 A	280 A	1000 V	-	-	-
VG03-0033	OJL-connector 280 Blue	250 A	280 A	1000 V	-	-	-
VG03-0034	OJL-connector 280 Green	250 A	280 A	1000 V	-	-	-

Installation

Certification and approval



CE RoHS FI

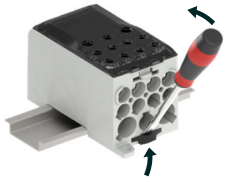
DIN-rail and screw mounting (2xM5)



Mounting with a screw
Max. Ø 5



DIN-rail mounting
Set the connector on a DIN-rail. Push until connector locks down.



Removing from DIN-rail
Release the slider part with a screwdriver.
Lift the connector.

Connection

Screw

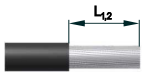


Screw $_S$	**M14**
SW_S	**6**
Screw $_{H1}$	**M6**
SW_{H1}	**3**
Screw $_{H2}$	**M8**
SW_{H2}	**4**

Tightening torque **M** ($M_S/M_{H1}/M_{H2}/M_{H3}/M_{H4}$)		
	95-120 mm²	**19 Nm**
	50-70 mm²	**10 Nm**
	25-35 mm²	**6 Nm**
	2,5-16 mm²	**3 Nm**
Conductor range	**1xAl/Cu (35-120mm²)/ 2x(6-35 mm²)/ 5x(2,5-16mm²)/ 4x(2,5-10mm²)**	
Max. Input conductor size	**120 mm²**	
Max. Output conductor size	**35 mm²**	

Stripping length **L**

(Input) **L1**	**26 mm**
(Output) **L2**	**12 mm**



Copper conductors

Max. 3 X CU / Conductor contact space



≤ 120 mm² total

Aluminium conductors

1 X AL / Conductor contact space



Anti-corrosion paste: e.g. Penetrox

Supported IEC 60228 -conductors



Class 5 & 6 (fine stranded) Using ferrule is recommended

Class 1 & 2 (solid and stranded)

Sector shaped cable

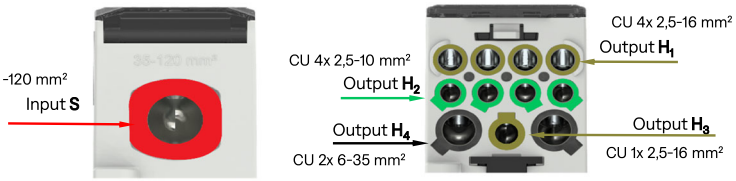


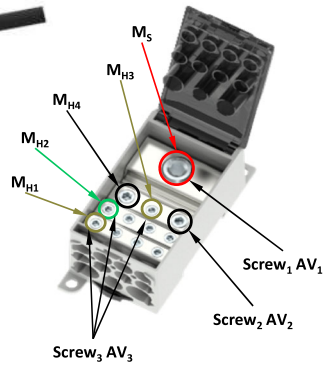
Pre-round the cable

Conductor installation

Connect the **input** conductor when cover is open. Can be used for both copper- or aluminium conductors.
Note! The Aluminium conductor is allowed only one conductor/one input contact space.
With the Al-conductors, it's recommended to use anti-corrosion paste. (i.e. Penetrox)
Remove any layer of oxide by brass or steel brush.
We recommend a ferrule when using a fine-stranded conductor.







The branching conductors **H1, H2, H3** and **H4** can be connected also when the cover is closed.
Note! It's allowed use only Cu-conductors for branching. End sleeves recommended to use.
Support connector during tightening the screws.
Connector must be installed so that conductors are relieved from strain.

Cross-section of conductors and max. number of conductors/ space (for Cu-conductors). (S / H1 / H2 / H3 / H4)

1,5 mm²	2,5 mm²	6 mm²	10 mm²	16 mm²	25 mm²	35 mm²	50 mm²
-	**0/3/3/3/0**	**0/2/1/2/3**	**0/1/1/1/3**	**0/1/0/1/2**	**0/0/0/0/1**	**3/0/0/0/1**	**2/0/0/0/0**

The specified max. amount of conductors refers only to industrially installed terminals.

70 mm²	95 mm²	120 mm²	150 mm²	185 mm²	240 mm²	300 mm²	400 mm²
1/0/0/0/0	**1/0/0/0/0**	**1/0/0/0/0**	**-**	**-**	**-**	**-**	**-**

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