### Rail-Mounted Terminal Blocks 279 to 285 Series and 880 Series

#### Assembly



By snapping a ground conductor terminal block onto the carrier rail, a direct electrical connection is automatically made to the rail

#### Assembly



Quick assembly keys prevent reverse mounting.

#### Removal



Removing a terminal block from the assembly.

#### Commoning



Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. In addition to the required marking of these blocks, use yellow-green adjacent jumpers.

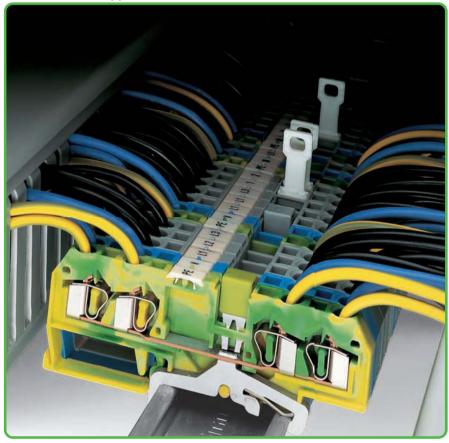
#### Commoning with step-down jumpers



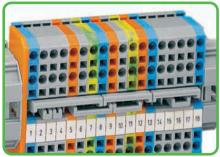
Commoning terminal blocks of different sizes – step down.

For application notes, see page 178.

# According to EN 60947-7-2 (VDE 0611, part 3), steel carrier rails shall not be used for PEN applications



#### Commoning



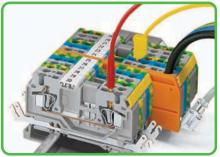
Staggered jumpers for sophisticated circuit requirements. Push jumpers down firmly until fully inserted. For additional notes, see page 201.



CAGE CLAMP® clamps the following copper conductors:\*

solid

**Testing - 880 Series** 



880 Series terminal blocks have an additional test slot for 2 mm  $\varnothing$  or 2.3 mm  $\varnothing$  test plugs.



stranded

Protective warning marker



Protective warning markers inserted into the operating



fine-stranded, also with tinned single strands

<sup>\*</sup> For aluminum conductors, see notes in Section 14.

## CAGE CLAMP®

## - Description and Handling -

#### **CAGE CLAMP®** connection



Conductor termination

#### CAGE CLAMP® connection



Conductor termination

When using ferruled conductors, it is necessary to use a terminal block one size larger than the nominal cross

section of the wire.

#### **Testing**



Testing with test plug.
Test plug fitted with CAGE CLAMP®.

#### **Testing**



L-type test plug modules fitted with CAGE CLAMP®. For application notes, see page 194.

#### **Testing**



B-type test plug modules fitted with CAGE CLAMP®. For application notes, see page 195.

### Marking



Marking with WMB Multi marking system. For additional systems, see Section 13.



fine-stranded, tip-bonded

### Insulation stop

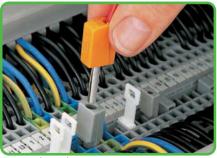


Insertion of insulation stop.
For application notes, see page 199.



fine-stranded, with ferrule (gastight crimped)

#### **Testing**



Testing with test plug.
Using 209-170 test plug adapter.



fine-stranded, with pin terminal (gastight crimped)

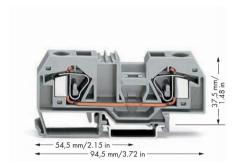


## Through/Ground Conductor and Ex Terminal Blocks 16 mm<sup>2</sup> 174 283 Series

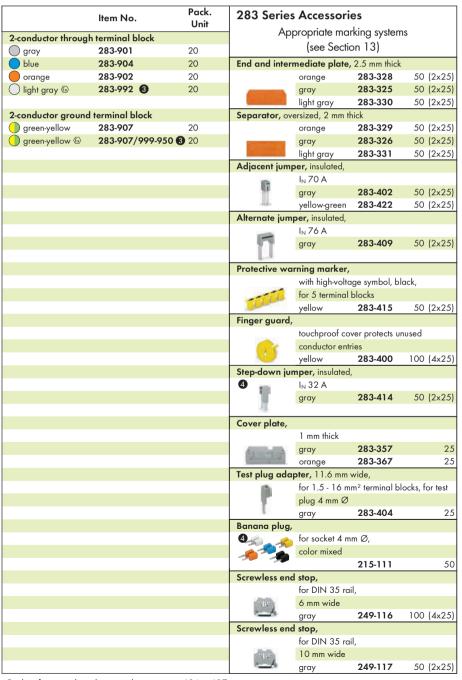
CAGE CLAMP®

0.2 - 16 mm<sup>2</sup> AWG 24 - 6 800 V/8 kV/3 10 600 V, 65 A 74 I<sub>N</sub> 76 A 600 V, 70 A@

Terminal block width 12 mm / 0.472 in \_\_\_\_ 16 - 17 mm / 0.65 in **②** 



- 1 800 V = rated voltage 8 kV = rated surge voltage 3 = pollution degree (also see Section 14)
- 2 Strip length, see packaging or instructions.
- 3 Suitable for Ex e II applications 0.5 mm² 16 mm²/AWG 20 6 550 V, 68 A Jumper 63 A (also see Section 14)
- See application notes for: Banana plug, page 198 Step-down jumper, pages 178 - 179





#### Commoning with step-down jumpers

A step-down cover plate must be inserted between terminal blocks to be jumpered. Step-down jumper 284-414 commons 16 mm²/AWG 6 terminal blocks with 4 mm<sup>2</sup>/AWG 12 terminal blocks.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers

The total current flowing shall not exceed the rating of the step-down jumper.