

# Current distribution

## Comb busbars for Declic and SFT residential devices

Comb busbar, for connecting 26 x 9 mm modules, consisting of two insulated bars to supply 1P + N devices (Declic, SFT, etc.).  
Due to the small amount of space occupied by the comb busbars, the connection terminals on devices are easy to access.

### Bar'clik



#### Supply

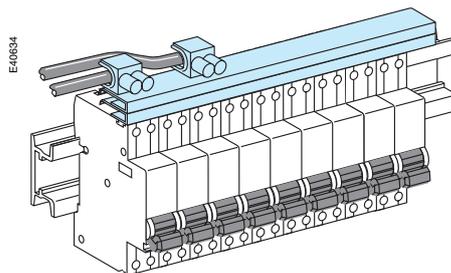
- by semi-rigid cable directly in the tunnel terminals of the device:
  - cross-section 16 for Declic
  - cross-section 10 for SFT
- by semi-rigid cable via connector **14875**:
  - cross-section 35
  - cross-section 16 + 6
  - cross-section 10 + 10.

#### Electrical characteristics:

- rated operating current:  $I_e$  (40 °C):
  - 63 A with 1 central supply point
  - 90 A with 2 supply points
- rated insulation voltage: 250 V
- short-circuit withstand capacity: compatible with the breaking capacities of Merlin Gerin modular circuit breakers (1P + N).

#### Choice of accessories

Comb busbars	Cat. No.
Bar'clik	14876
4 connectors for 35 mm <sup>2</sup> cables	14875



# Current distribution (cont.)

## Comb busbars for DPN, SFT and C60 devices

### Range of comb busbars for 18 mm terminal spacing

- supplied with two IP2 end-caps
- markers can be fitted for circuit identification
- cutting locations are marked on the copper bars and on the insulation
- self-extinguishing insulating material, colour RAL 7016
- unused teeth may be insulated by fitting tooth-caps.

### 1P + N and 3P + N comb busbars



Comb busbars		Cat. No.
For Declic, DPN, DPN N, SFT and STI	26-mod. comb	14880
1P + N	Set of two 48-mod. comb	14890
3P + N	Set of two 48-mod. comb	14899

### Electrical characteristics

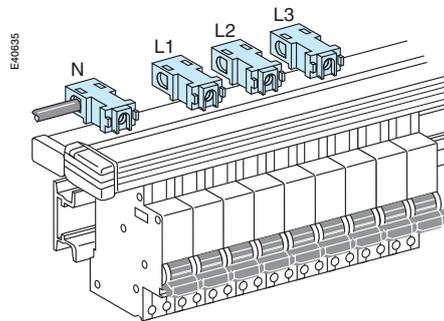
- rated operating current:  $I_e$  (40 °C):
  - 80 A with 1 central supply point
  - 100 A with 2 supply points
- rated insulation voltage: 250 V
- short-circuit withstand capacity compatible with the breaking capacities of Merlin Gerin modular circuit breakers.

### Connection

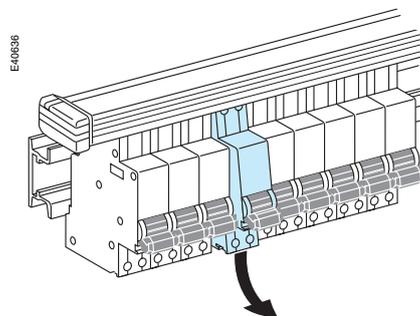
#### Supply:

- by semi-rigid cable:
  - 16 with DPN circuit breakers
  - 10 with SFT and STI devices, directly in their tunnel terminals
- by 25 semi-rigid cable via connector **14885**.

Accessories	For comb busbars	Cat. No.
Set of 40 end-caps	1P + N	14886
	3P + N	14887
Set of 40 tooth-caps	1P + N and 3P + N	14898



3P + N comb busbar **14899**.



1P + N comb busbars make it possible to dismount Declic and DPN circuit breakers.

# Current distribution (cont.)

## Comb busbars for DPN, SFT and C60 devices (cont.)

### 1P, 2P, 3P and 4P comb busbars



Comb busbars		Cat. No.
For C60a/N/H/L, SFT, ST1 (except 3P +N)		
1P	24-mod. comb	14881
	108-mod. comb (L = 1 m)	14801
	Set of two 48-mod. comb	14891
2P	24-mod. comb	14882
	108-mod. comb (L = 1 m)	14802
	Set of two 48-mod. comb	14892
3P	24-mod. comb	14883
	108-mod. comb (L = 1 m)	14803
	Set of two 48-mod. comb	14893
4P	24-mod. comb	14884
	108-mod. comb (L = 1 m)	14804
	Set of two 48-mod. comb	14804

Accessories	For comb busbars	Cat. No.
Set of 40 end-caps	1P, 2P	14886
	3P, 4P	14887
Set of 40 tooth-caps	1P, 2P, 3P, 4P	14888

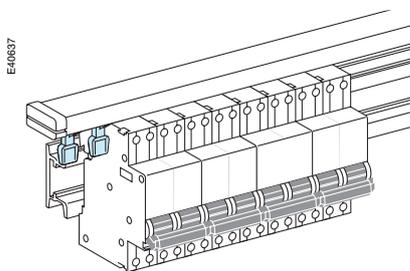
#### Electrical characteristics

- rated operating current:  $I_e$  (40 °C):
  - 80 A with 1 central supply point
  - 100 A with 2 supply points
- rated insulation voltage: 500 V (as per IEC 664)
- short-circuit withstand capacity compatible with the breaking capacities of Merlin Gerin modular circuit breakers.

#### Connection

##### Supply:

- by semi-rigid cable:
  - 25 with C60 circuit breakers (all ratings)
  - 10 with SFT and ST1 devices, directly in their tunnel terminals
- by 25 semi-rigid cable via connector **14885**.



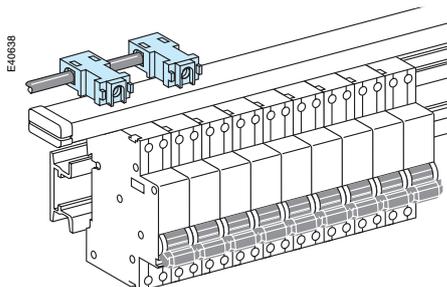
Tooth-caps may be fitted to insulate unused teeth.

### Connectors



- compatible with SFT, ST1, C60 comb busbars
- clipped firmly onto insulated parts of comb busbars
- can be fitted with Telemecanique clip-on markers for circuit identification.

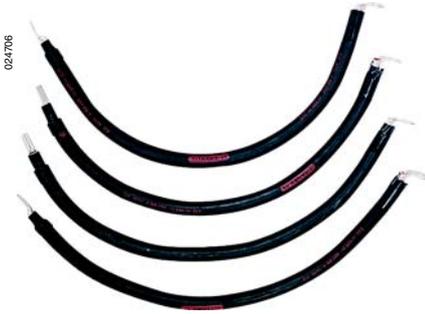
Connectors	Cat. No.
Set of 4 insulated connectors for 25 cables	14885



# Current distribution (cont.)

## Comb busbars for DPN, SFT and C60 devices (cont.)

### 100 A connection



Flexible connection system, made of insulated copper cables (class 2: 1000 V insulation) with:

- 6.9 x 2.5 mm ferrule crimped at one end for 16 tunnel terminals
- 90° lugs with 8.5 mm holes crimped at the other end.

#### Applications

- direct connection between busbars at the rear of an enclosure and a comb busbar.

100 A connection	L (mm)	Cat. No.
Set of four 100 A cables	420	07038

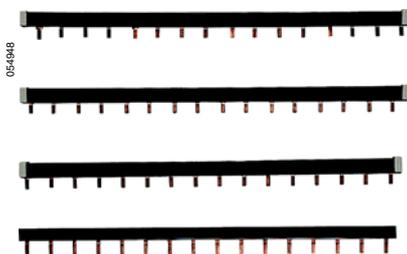
E40888

*Direct connection between busbars at the rear of a Prisma G enclosure and a row of modular devices.*

# Current distribution (cont.)

## Comb busbars for NG25

### 1P, 2P, 3P and 4P comb busbars



#### Description

- range of 1P, 2P, 3P and 4P comb busbars for 27 mm terminal spacing
- length:
  - 432 mm (16 x 27 mm) for 1P, 2P and 4P comb busbars
  - 405 mm (15 x 27 mm) for 3P comb busbar
- insulating material, colour grey RAL 7016
- IPXXB protection with tooth-caps
- may be cut to length.

#### Choice of comb busbars

Comb busbars	Cat. No.
For NG125	
1P	14811
2P	14812
3P	14813
4P	14814

The comb busbars are supplied with:

- 8 tooth-caps + 2 end-caps for 2P comb busbars
- 4 tooth-caps + 2 end-caps for 3P and 4P comb busbars.

#### Accessories

Accessories	Cat. No.
End-caps and tooth-caps	14818

comprising:

- 20 tooth-caps
- 4 end-caps for 2P and 3P comb busbars
- 4 end-caps for 4P comb busbars.

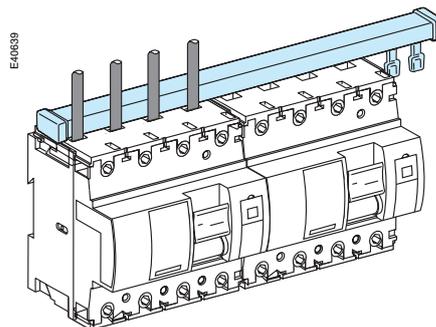
#### Electrical characteristics

- rated operating current:  $I_e$  (40 °C) = 125 A
- maximum rated current per outgoing circuit: 63 A
- rated insulation voltage: 690 V
- rated impulse withstand voltage:  $U_{imp} = 8$  kV
- short-circuit withstand capacity compatible with the breaking capacities of Merlin Gerin modular circuit breakers.

#### Connection

Supply by cables with a maximum cross-section of 50 mm<sup>2</sup>, directly in the tunnel terminals of the device.

To supply the comb busbar from a busbar set located at the rear of the enclosure, use the 100 A prefabricated connection system (see page 120F\_5\_0055).



Tooth-caps may be fitted to insulate unused teeth.

