

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

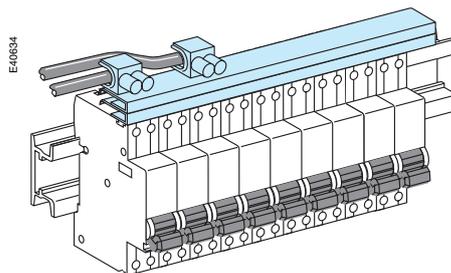
- by semi-rigid cable directly in the tunnel terminals of the device:
 - cross-section 16 for Declic
 - cross-section 10 for SFT
- by semi-rigid cable via connector **14875**:
 - cross-section 35
 - cross-section 16 + 6
 - cross-section 10 + 10.

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 ² 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

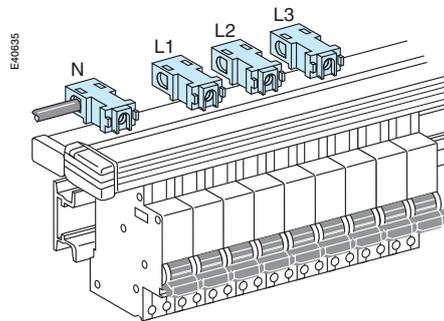
- rated operating current: I_e (40 °C):
 - 80 A with 1 central supply point
 - 100 A with 2 supply points
- rated insulation voltage: 250 V
- short-circuit withstand capacity compatible with the breaking capacities of Merlin Gerin modular circuit breakers.

Connection

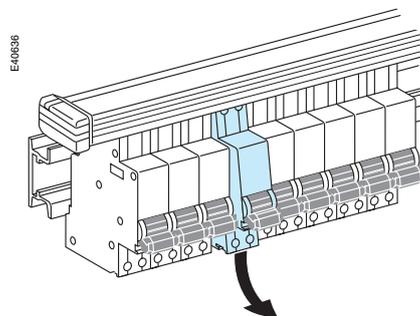
Supply:

- 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

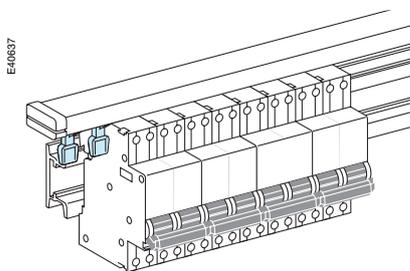
Electrical characteristics

- 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**.



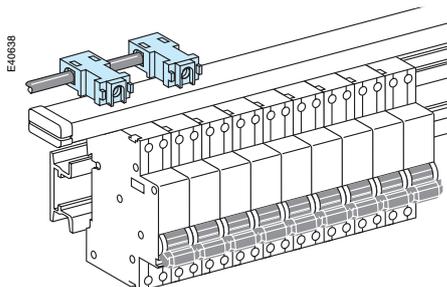
Tooth-caps may be fitted to insulate unused teeth.

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.

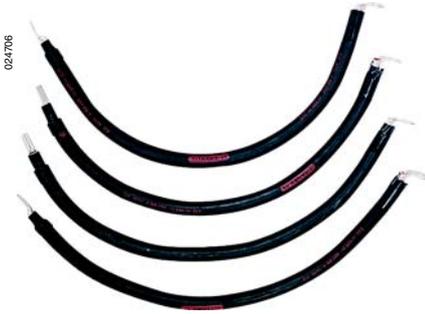
Connectors	Cat. No.
Set of 4 insulated connectors for 25 cables	14885



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

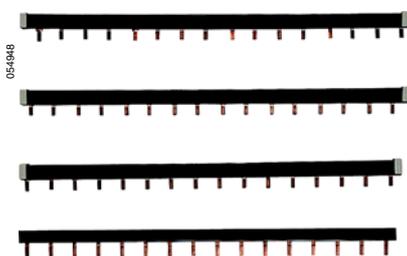
E40888

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.

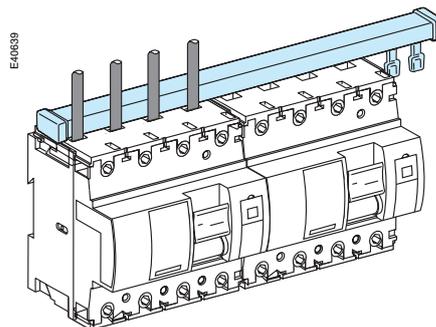
Electrical characteristics

- 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 mm², 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.

