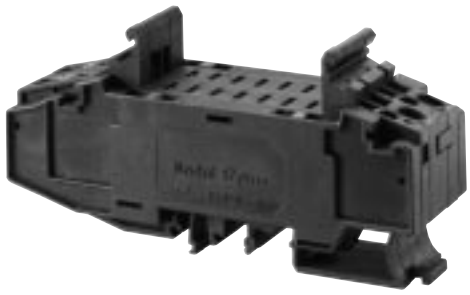
E-T-A Module 17plus

Description

Module 17plus is a power distribution system for use with E-T-A circuit breakers type 2210-S... or 3600-.../3900-.... Each module accommodates two single pole plug-in circuit breakers with an individual housing width of only 12.5 mm and fits onto all industry standard mounting rails.
The two-way modules can be interconnected to provide as many ways as required with a terminal block fitted at each end for connection of signalling circuits. A distribution busbar can be fitted on the supply side of the modules though each pole of multipole circuit breakers must be individually connected. Electrical connections are by means of screwless spring loaded terminals.
Circuit breakers featuring make and break auxiliary contacts should be specified when either single or group signalisation is required. For group signalisation, the make contacts (which open in the event of a fault) are connected in series to the terminal blocks of the modules. The module is designed to accommodate a probe for series connection continuity tests. When multipole circuit breakers are fitted auxiliary contacts are required for each pole. Individual circuit breaker signalisation is achieved through use of the break contacts (which close in the event of failure) connected in parallel by means of terminals on each module. The signalling circuitry between modules is automatically connected when modules are linked together.

Ordering information

17PLUS-Q02-00	Module 17plus, middle part, two-way
17PLUS-Q00-LR	one each left- and right-side terminal block
17PLUS-QA0-LR	one each left- and right-side terminal block with screw terminal for busbar



17plus

Technical data

Connection	Spring-loaded terminals for rigid wires and flexible cables with and without wire end ferrules. Please use appropriate screw driver size (SD) for removing the spring loaded terminals. Line feed (1): spring-loaded terminals for 0.5-6 mm², SD 2 (0.8x4.0) Load output (2): spring-loaded terminals for 0.25-4 mm², SD 1 (0.6x3.5) Signalisation: terminals (11, 13, 14): spring-loaded terminals for 0.25-2.5 mm², SD 1 (0.6x3.5) terminal (12): spring-loaded terminal for 0.25-1.5 mm², SD 0 (0.4x2.5)
Test probe for testing the group signal for line interruption: ≤ 2 mm ø	
Voltage rating (without circuit breaker):	AC 433 V; DC 65 V

Current rating (without circuit breaker)		Internal resistances (without circuit breaker)
Line feed (1)	50 A	Line/load (1-2) ≤5 mΩ
Load output (2)	25 A*)	Signalisation
Signalisation		parallel (11-12) ≤9 mΩ [1] /per pole
Feed (11)	10 A	serial per module
		(13-14) ≤8 mΩ [2]/per pole
Single output (12)	1 A	plus
		[1] + 2 mΩ
Group signal (13-14)	1 A	[2] + 5 mΩ
		for each further module interconnected

*) Caution: When several devices are mounted together, each should carry only max. 80 % ($I_N \leq 16$ A) or max. 65 % ($I_N > 16$ A) of its rating.

Busbar for power distribution		
insulated busbar (blue or red):	I_{max}	32 A
non-insulated busbar:	I_{max}	50 A
(The non-insulated busbar, too, meets brush contact safety standards when fitted.)		
Dielectric strength		
between main circuits (without busbar):		1,500 V
main circuit to auxiliary circuit:		1,500 V
between auxiliary circuits:		1,500 V
Mass: Module 17plus (middle part)		approx. 85 g
terminal blocks (pair)		approx. 30 g

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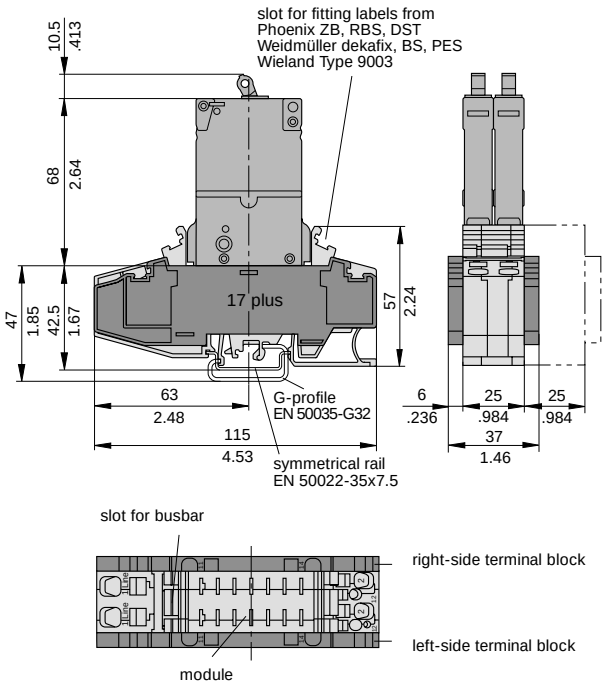
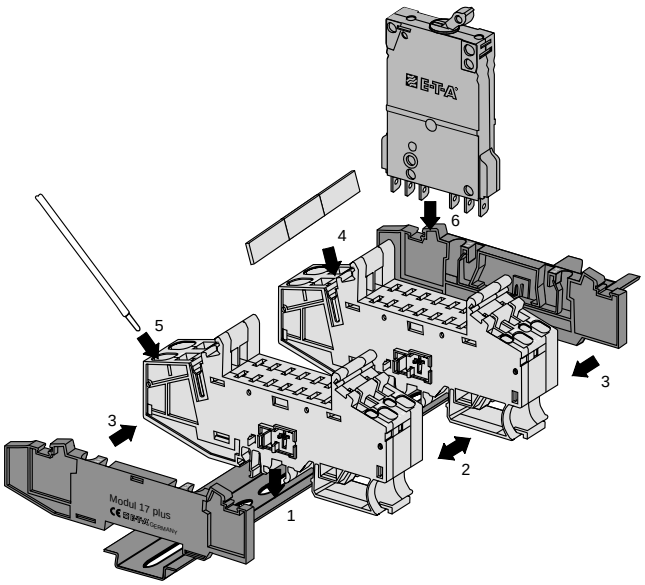
Dimensions



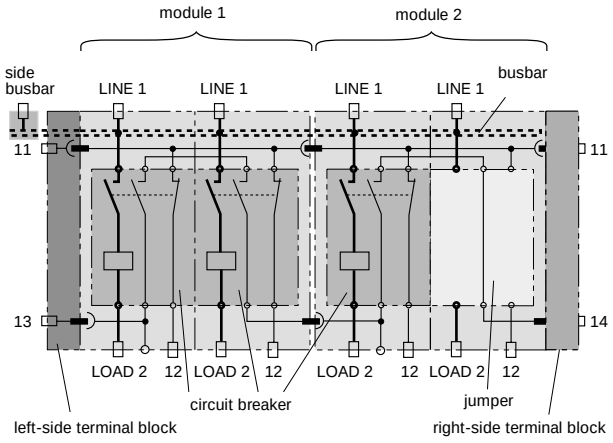
Installation example



Installation:

1 Clip modules onto DIN rails.
2 Push modules together (side-by-side).
3 Snap on right-side and left-side terminal blocks.
4 Cut busbar to required length and fit on supply side of the modules.
5 Connect line feed with spring-loaded terminals.
6 Plug in circuit breakers.

Connection diagram

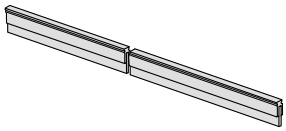


13, 14 terminals for group signalisation
11 feed for single signalisation
12 terminal for single signalisation

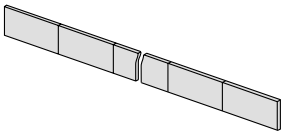
This is a metric design and millimeter dimensions take precedence (mm / inch)

Accessories

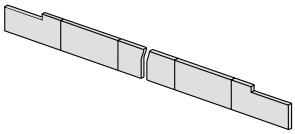
Busbar 32 A
X 222 005 01 blue insulation, 500 mm/19.68 in.
X 222 005 02 red insulation, 500 mm/19.68 in.
X 222 005 03 grey insulation, 500 mm/19.68 in.



Busbar 50 A
Y 307 016 01 non-insulated, 500 mm/19.68 in.

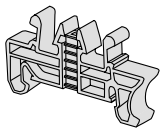


Busbar 50 A
for busbar connection by means of terminal 17plus-QA0-LR
Y 307 016 11 non-insulated, 500 mm/19.68 in.

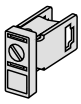


Busbar for signal contacts
X 222 066 01

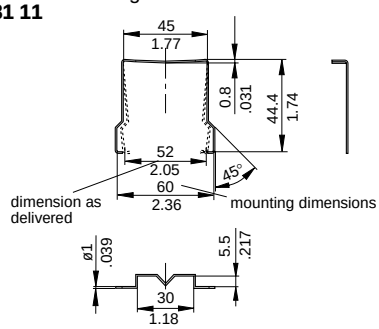
End bracket
X 222 004 01



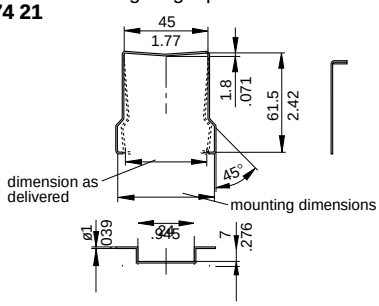
Screw terminal for busbar
X 211 156 01 non insulated



Retaining clip for circuit breaker 3600/3900
recommended for fitting the devices
Y 300 581 11



Retaining clip for circuit breaker 2210
recommended for fitting single pole devices
Y 302 974 21



All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved.Product markings may not be exactly as the ordering codes. Errors and omissions excepted.

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