

Description

Module 17plus is a power distribution system for use with

- E-T-A Circuit Breakers type 2210-S..., 3600-..., 3900-...
- E-T-A Electronic Circuit Breaker ESS20, ESX10
- Solid State Remote Power Controller E-1048-7...

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 mounted side-by-side to provide as many ways as required with a terminal block fitted at each end. A distribution busbar can be fitted on the supply side of the modules, but each pole of multipole circuit breakers must be individually connected.

Electrical connections are by means of screwless spring loaded terminals.

Suitable electro-mechanical circuit breakers have integral make and break auxiliary contacts. Depending on the application these may be used for either single or group signalisation. 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.

Single 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.

Both types of signalisation (single and group signalisation) are available at the same time if the circuit breakers used provide auxiliary contacts (please note when ordering).

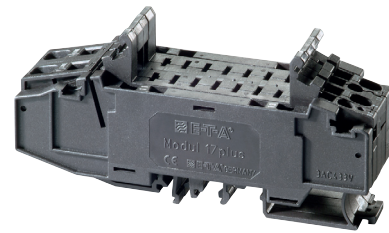
The signalling circuitry between modules is automatically connected when the modules are mounted side-by-side (linked together).

Ordering information

17PLUS-Q02-00 17PLUS-QA0-LR	Module 17plus, centre piece, two-way one each left- and right-side terminal block for supply feed from the side by means of screw terminal
Technical data of:	
Circuit Breaker 2210-S, 3600, 3900 product group thermal-magnetic circuit breakers	
Electronic Circuit Breaker ESS20, ESX10 product group Electronic overcurrent protection	
Solid State Remote Power Controller E-1048-7.. product group Power distribution systems	

Approvals

Authority	Voltage ratings	Current ratings
UL 60950	AC 250 V; DC 80 V	50 A



17plus

Technical data

Connection	Spring-loaded terminals for rigid wires or flexible cables with unisolated wire end ferrules or without wire end ferrules. Please use appropriate screw driver size (SD) for removing the spring loaded terminals.
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cable	cross section of connecting cable	screw driver	stripped length
Line feed (1)	1.5-10 mm ²	3 (1.0 x 5.5)	12 mm
Load output (2)	0.25-4 mm ²	1 (0.6 x 3.5)	12 mm
Signalisation terminals (11, 13, 14)	0.25-2.5 mm ²	1 (0,6 x 3.5)	10 mm
Signalisation terminal (12)	0.25-1.5 mm ²	0 (0.4 x 2.5)	9 mm

diameter of test socket ≤ 2 mm ø

Voltage rating
(without circuit breaker): AC 250 V; 3 AC 433 V; DC 65 V

Current rating (without circuit breaker)

Line feed (1)	50 A
Load output (2)	25 A
Signalisation Feed (11) (ground with electronic components)	10 A
Single output (12)	1 A
Group signal (13-14)	1 A

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.

Internal resistances (without circuit breaker)

Line/load (1-2)	≤ 5 mΩ
Signalisation (11-12)	≤ 9 mΩ (+ 2 mΩ per additional module)
Group signal (13-14)	≤ 8 mΩ (+ 5 mΩ per additional module)

Vibration 5 g (57-500 Hz) ± 0.38 mm (10-57 Hz), to IEC 60068-2-6, test Fc, 10 frequency cycles/axis

Shock 25 g (11 ms) to IEC 60068-2-27, test Ea 11 ms half sine

Corrosion 96 hours at 5 % salt mist, to IEC 60068-2-11, test Ka

Humidity 240 hours at 95 % RH to IEC 60068-2-78, test Cab

Dielectric strength

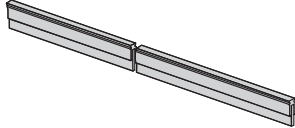
between main circuits (without busbar):	1,500 V
main circuit to auxiliary circuit:	1,500 V
between auxiliary circuits:	1,500 V

Mass: Module 17plus (centre piece) approx. 85 g
terminal blocks (pair) approx. 30 g

Accessories

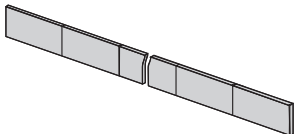
Busbar 32 A

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.
 "up to 32 A continuous load"



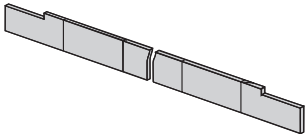
Busbar 50 A

Y 307 016 01 non-insulated, 500 mm/19.68 in.
 "up to 50 A continuous load;
 plugged in completely, protected against brush contact"



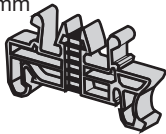
Busbar 50 A

Y 307 016 11 non-insulated, 500 mm/19.68 in.
 "up to 50 A continuous load"



End bracket

X 222 004 01
 Width 10 mm



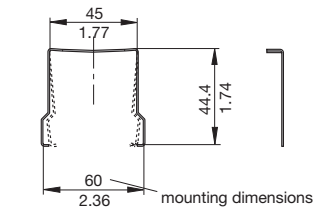
Screw terminal for busbar

X 211 156 01 non insulated
 (up to 35 mm²)



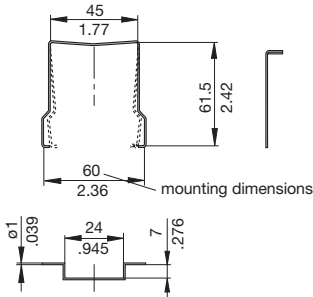
Retaining clip for circuit breaker 3600/3900

recommended for fitting the devices
Y 300 581 11



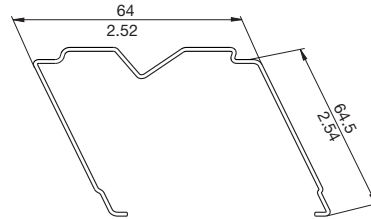
Retaining clip for circuit breaker 2210

recommended for fitting single pole devices
Y 302 974 21



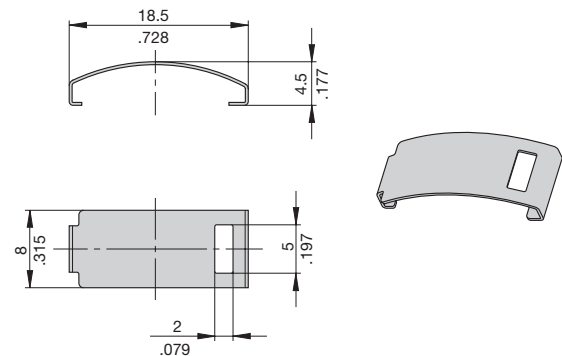
Retaining clip Y 308 792 01

recommended for tight fit of types
 ESX10 / E-1048-S6xx / SB-S11-P1-xx
 and terminal blocks type 17 and 17plus



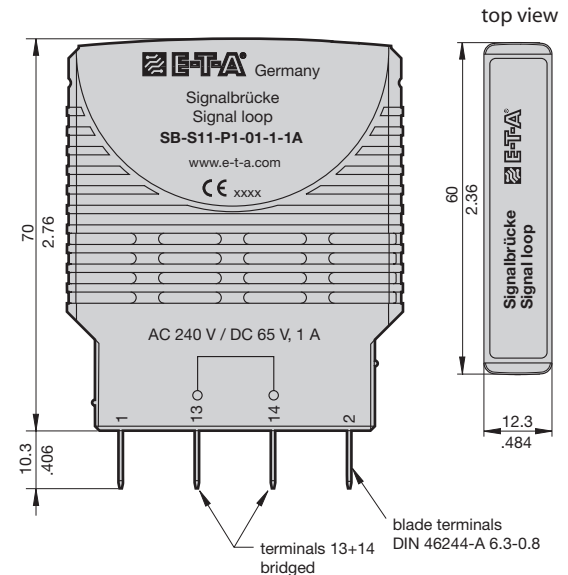
Retaining clip Y 307 754 01

recommended for tight fit of types
 ESS20 / ESX10



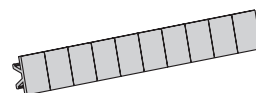
Jumper

SB-S11-P1-01-1-1A



Labels

marking area 6 x 10 mm
 (ordering unit 10 pcs = 1 strip)
Y 307 942 61



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.

This is a metric design and millimeter dimensions take precedence ($\frac{\text{mm}}{\text{inch}}$)