#### 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 Conroller 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:		please see:
Circuit Breaker 2210-S, 3600, 3900 Electronic Circuit Breaker ESS20, ESX10 Solid State Remote Power Controller E-1048-7		product group 2 product group 5 product group 6

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

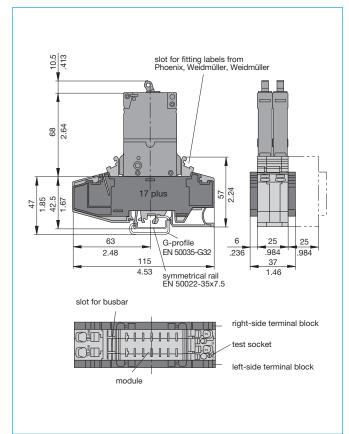


#### **Technical data**

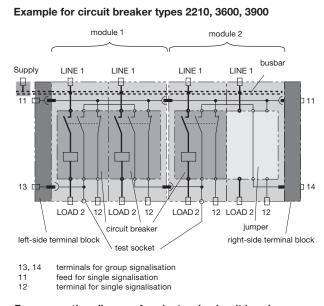
Connection Spring-loaded terminals for rigid wires or flexible cables with unisolated wire end ferrules or without wire end ferrules Please use appropriate screw driver size (SD) for removing the spring loaded terminals.				
cable	cross section of connecting cable	screw driver	stripped length	
Line feed (1)	1.5-10 mm <sup>2</sup>	3 (1.0 x 5.5)	12 mm	
Load output (2)	0.25-4 mm <sup>2</sup>	1 (0.6 x 3.5)	12 mm	
Signalisation terminals (11, 13, 14)	0.25-2.5 mm <sup>2</sup>	1 (0,6 x 3.5)	10 mm	
Signalisation terminal (12)	0.25-1.5 mm <sup>2</sup>	0 (0.4 x 2.5)	9 mm	
diameter of test so	cket ≤2 mm ø			
Voltage rating (without circuit bre	aker): AC 250 V; 3	AC 433 V; DC	65 V	
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		D	
Dielectric strength between main ci main circuit to a between auxiliar		ır): 1,500 V 1,500 V 1,500 V		
Mass: Module 17plus (centre piece) terminal blocks (pair)		approx. approx.		

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## **Dimensions**

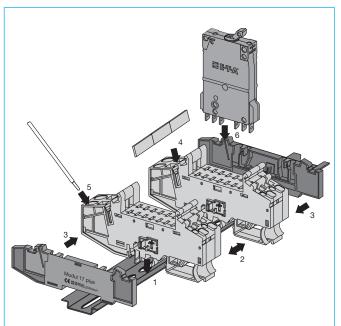


## **Connection diagram**



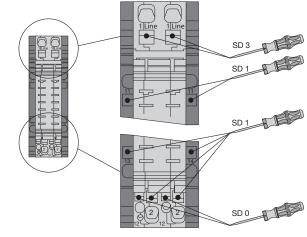
For connection diagram for electronic circuit breakers and components please see relevant data sheets of types ESS20, ESS21, E-1048-7..

## 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 and disconnection of cables with screw driver

#### Module 17plus for electronic overcurrent protection

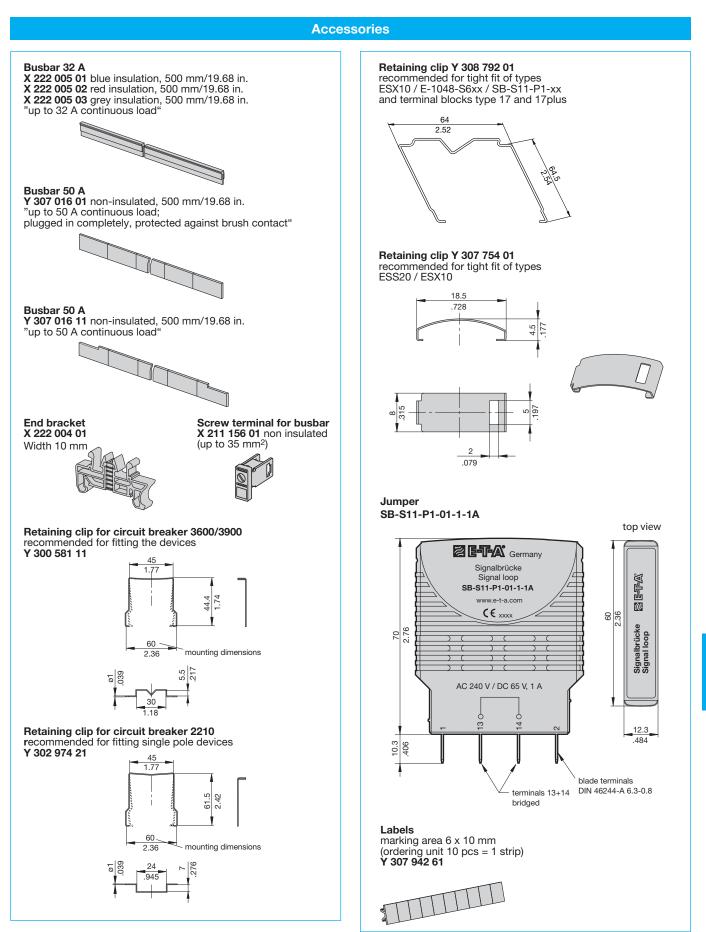
For technical data, dimensions, mounting examples, schematic diagrams and connection diagrams of

• ESS20-0	please see product group 5
ESS20-1	please see product group 5
ESX10	please see product group 5

- E-1048-7...
- please see product group 5
- please see product group 6

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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 (mm) inch)

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