

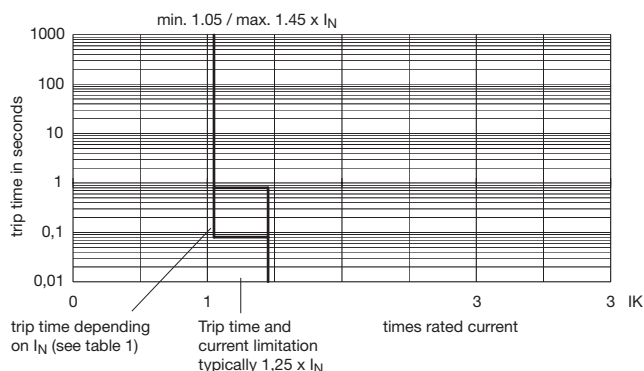
Description

Single pole, with PT connection technology, to accommodate 1-pole circuit protector type REF16-S.

Part number: 80PLUS-PT01

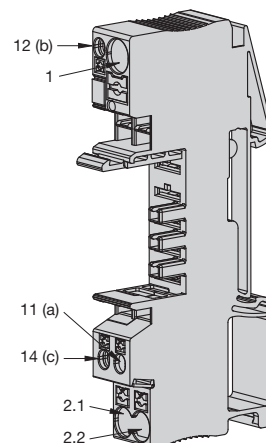
- Push-in design: push the stripped wire (cross section $\geq 0.25 \text{ mm}^2$, rigid or with wire end ferrule) into the round hole of the terminal without using a tool
- For smaller cable cross sections or flexible wires without wire end ferrule you have to push in the orange push button to open the spring.
- For release push in the orange push button with a screw driver.

Time/current characteristic ($T_U = 25^\circ\text{C}$)



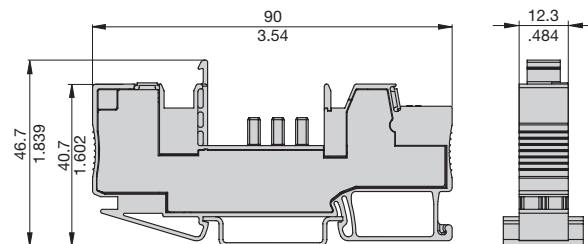
- The trip is typically in a range of 80 ms to 800 ms depending on the rated current (I_N).
- Electronic disconnection and/or current limitation typically occur at 1.25 I_N . This means that under all overload conditions the max. overload before disconnection will not exceed 1.25 times rated current.
- Without this current limitation a considerably higher overload current would flow in the event of an overload or short circuit.

Line connection



1	LINE +
2.1 / 2.2	LOAD +
11 (a)	Si or IN+ or RE
14 (c)	Si or SF
12 (b)	GND

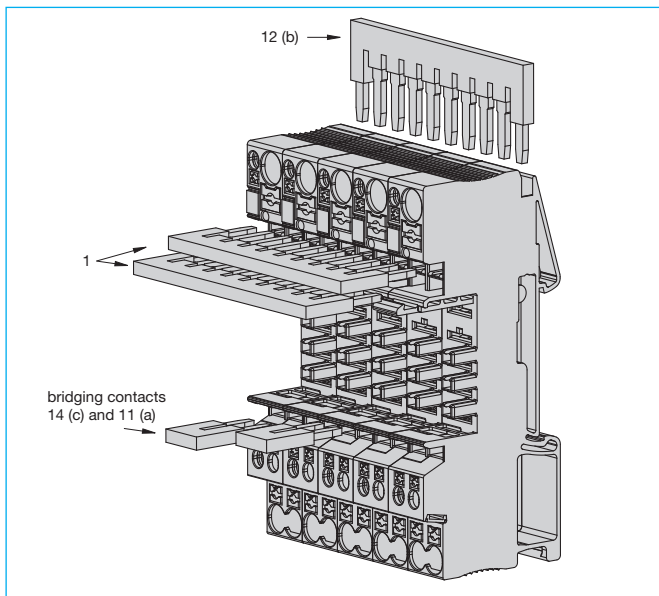
Dimensions



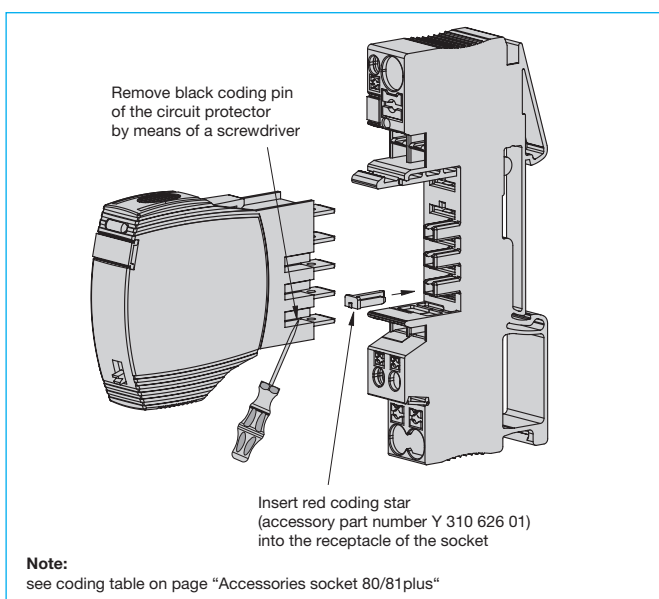
Cable cross section

	Cross section when opening the push-in terminal		Cable cross section directly pluggable		stripped wire length
terminal 1 (line)	- rigid: - flexible: - flexible with wire end ferrule: (with plastic sleeve) - flexible with wire end ferrule: (without plastic sleeve) - flexible with TWIN-wire end ferrule	0.5...6 mm ² 0.5...6 mm ² 0.5...6 mm ² (10 mm ²) 0.5...6 mm ² 0.5...1 mm ²	- rigid - flexible with wire end ferrule: (with plastic sleeve) - flexible with wire end ferrule: (without plastic sleeve)	1...6 mm ² 0.5...6 mm ² (10 mm ²) 0.5...6 mm ²	12 mm
terminals 2.1 and 2.2 (load)	- rigid: - flexible: - flexible with wire end ferrule: (with plastic sleeve) - flexible with wire end ferrule: (without plastic sleeve) - flexible with TWIN-wire end ferrule:	0.2...6 mm ² 0.2...4 mm ² 0.25...4 mm ² 0.25...4 mm ² 0.5...1 mm ²	- rigid: - flexible with wire end ferrule: (with plastic sleeve) - flexible with wire end ferrule: (without plastic sleeve)	0.5...6 mm ² 0.75...4 mm ² 0.5...4 mm ²	12 mm
terminals 11, 12 and 14 (signalling)	- rigid: - flexible: - flexible with wire end ferrule: (with plastic housing) - flexible with wire end ferrule: (without plastic sleeve)	0.14...1.5 mm ² 0.14...1.5 mm ² 0.14...1.5 mm ² 0.14...1 mm ²	- rigid: - flexible with wire end ferrule: (with plastic housing) - flexible with wire end ferrule: (without plastic sleeve)	0.25...1.5 mm ² 0.34...1.5 mm ² 0.34...1 mm ²	8 mm

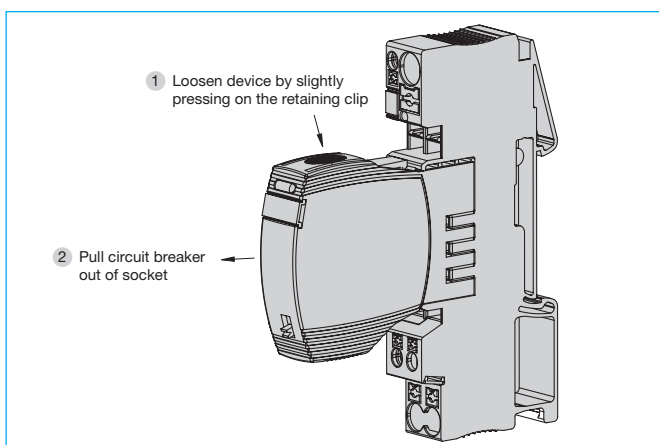
Insertion of busbars/jumpers



Coding of REF16-S and socket 80plus following the lock-key-principle

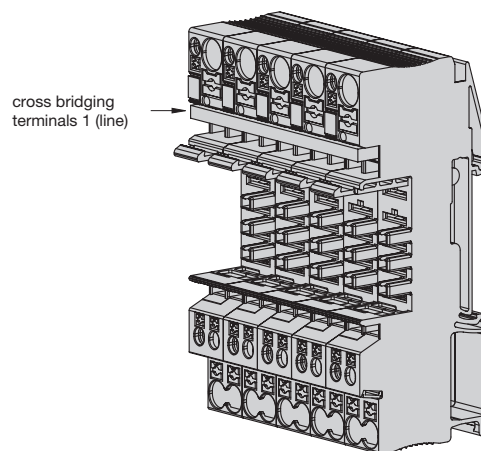


Replacing a REF16-S

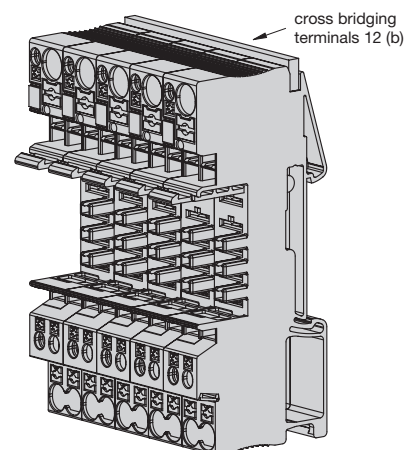


Application examples

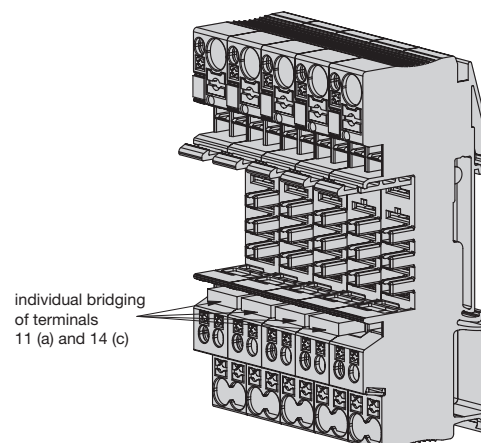
Common line entry



Common line entry GND



Series connection of aux. contacts (REF16-S101)

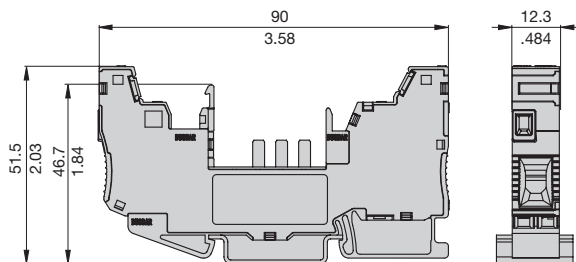


Description

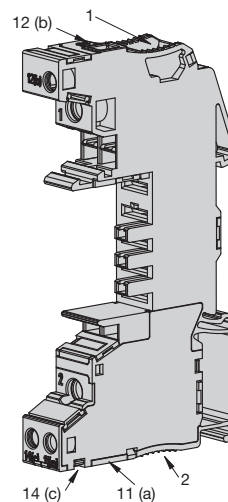
Single pole, with PT connection technology, to accommodate 1-pole circuit protector type REF16-S.

Part number: 81PLUS-UT01

Dimensions



Line connection



1	LINE +
2	LOAD +
11 (a)	Si or IN+ or RE
14 (c)	Si or SF
12 (b)	GND

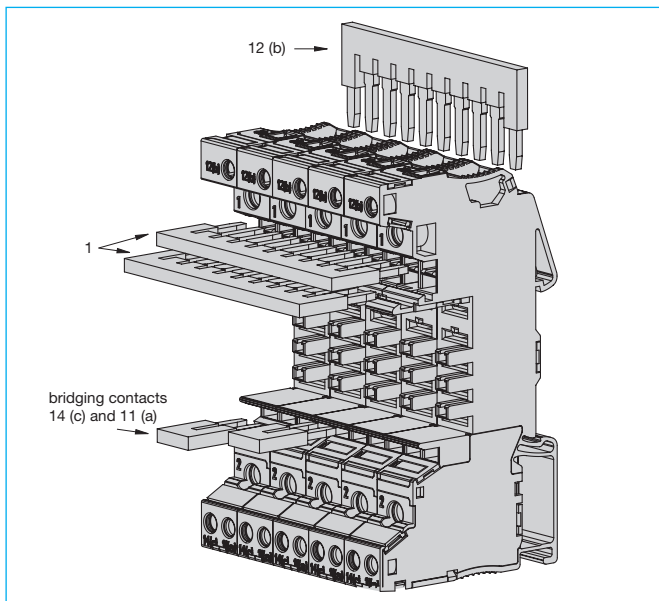
Cable cross section

	thread size	max. cable cross section		stripped wire length	tightening torque
terminals 1 (line) and 2 (load)	M4	Wire - rigid (single-wire or multistrand) - flexible: - flexible with wire end ferrule: (with and without plastic sleeve) - flexible with TWIN-wire end ferrule:	0.5...16 mm ² 0.5...10 mm ² 0.5...10 mm ² 0.5...6 mm ²	10 mm	1.2 Nm
		Multi-lead connection (two wires with identical cross section) - rigid (single-wire or multistrand) - flexible: - flexible with TWIN-wire end ferrule (without plastic sleeve)	0.5...4 mm ² 0.5...4 mm ² 0.5...2.5 mm ²		
terminals 11, 12 and 14 (signalling)	M3	Wire - rigid: - flexible: - flexible with wire end ferrule: (with and without plastic sleeve)	0.14...4 mm ² 0.14...4 mm ² 0.14...2.5 mm ²	9 mm	0.5 Nm
		Multi-lead connection (two wires with identical cross section) - rigid: - flexible: - flexible with TWIN AEH: (with plastic sleeve) - flexible with AEH: (without plastic sleeve)	0.14...1.5 mm ² 0.14...1.5 mm ² 0.5...1.5 mm ² 0.14...1.5 mm ²		

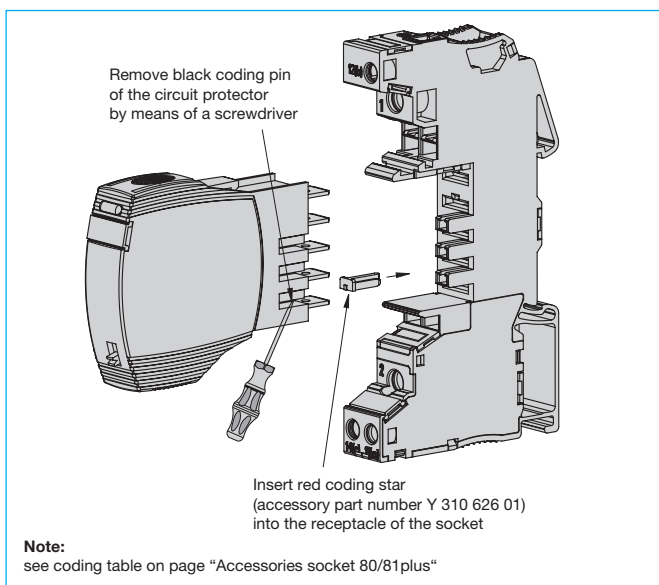
This is a metric design and millimeter dimensions take precedence ($\frac{\text{mm}}{\text{inch}}$)

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.

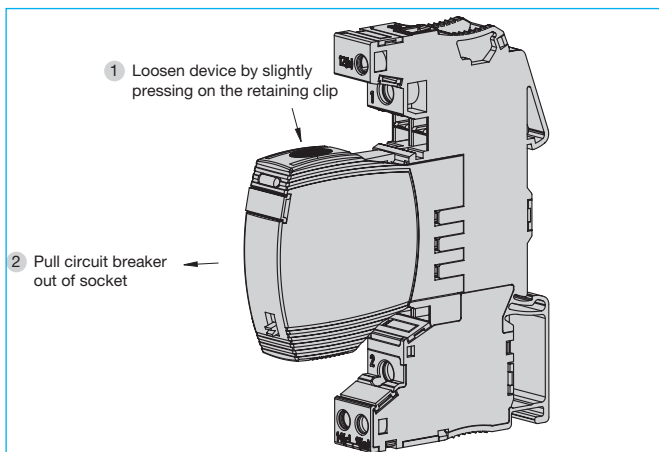
Insertion of busbars/jumpers



Coding of REF16-S and socket 81plus following the lock-key-principle

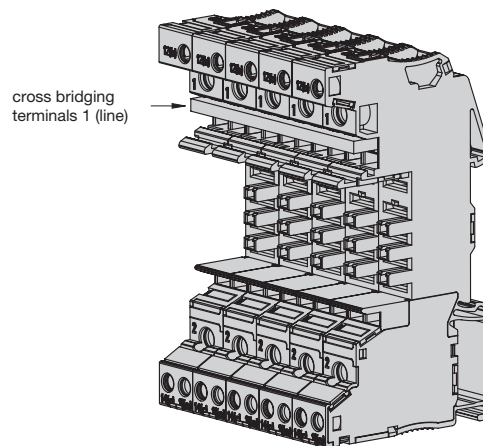


Replacing a REF16-S

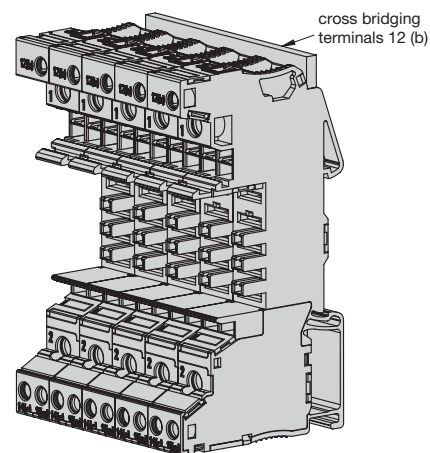


Application examples

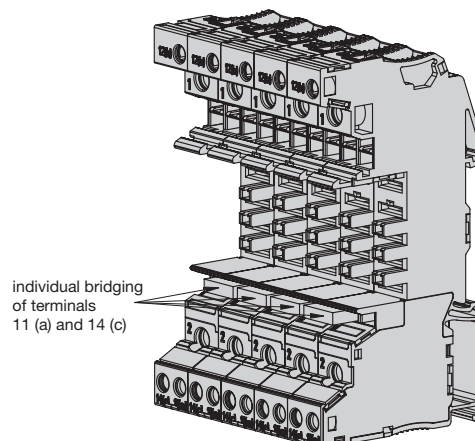
Common line entry






Common line entry GND



Series connection of aux. contacts (REF16-S101)



Accessories

Accessories for Socket 80plus and Socket 81plus		part number	packing qty
busbar, for cross-bridging in the bridge shaft, red, 2 poles *		Y 310 624 01	50
busbar, for cross-bridging in the bridge shaft, red, 4 poles *		Y 310 625 01	50
busbar, for cross-bridging in the bridge shaft, red, 10 poles *		Y 308 823 11	10
busbar, for cross-bridging in the bridge shaft, blue, 2 poles *		Y 310 624 02	50
busbar, for cross-bridging in the bridge shaft, blue, 4 poles *		Y 310 625 02	50
busbar, for cross-bridging in the bridge shaft, blue, 10 poles *		Y 308 823 12	10
busbar, for cross-bridging in the bridge shaft, grey, 2 poles *		Y 310 624 03	50
busbar, for cross-bridging in the bridge shaft, grey, 10 poles *		Y 308 823 13	10
coding star, red, with 4 coding pins each		Y 310 626 01	50
label		X 222 977 50	50
busbar/jumper, 10 poles 	coding star 	label 	

* Max. bridge current: 32 A

When using two busbars/jumpers (in both bridge shafts of terminal 1), the max. current capacity is 41 A.

Caution:

When using busbars/jumpers for bridging the aux. contacts (11(a), 12(b) and 14(c)), the max. bridge current is 4 A.

Coding table

Coding example:

Avoid hazardous oversize current ratings

Your benefit:

Coded electronic overcurrent protector can no longer be inserted into slots with a lower current rating coding.

Coding of electronic overcurrent protector and sockets

Sockets: Insert coding pins in accordance with coding table into receptacles of the sockets.

Electronic Overcurrent Protector: Remove coding pins in accordance with coding table by means of screw driver.

Protector-socket-coding for the circuit protector with the **highest** current rating

decreasing
current rating

Protector-socket-coding for the circuit protector with the **lowest** current rating

Coding table				Example
Protector	1	1	1	10 A
Socket	0	0	0	
Protector	1	1	0	8 A
Socket	0	0	1	
Protector	1	0	1	6 A
Socket	0	1	0	
Protector	1	0	0	4 A
Socket	0	1	1	
Protector	0	1	1	3 A
Socket	1	0	0	
Protector	0	1	0	2 A
Socket	1	0	1	
Protector	0	0	1	1 A
Socket	1	1	0	
Protector	0	0	0	0.5 A
Socket	1	1	1	

1: With PIN / 0: No PIN

