

Description

The compact 19" Power-D-Box features aluminium profiled cross members with an anodised front plate. The panel cutout accommodates up to 30 positions numbered 1 to 30. Blanks cover unused positions, with 6, 12, 24 or 30 being "open".

The rack can be fitted with plug-in type circuit breakers 3600/3900 and 2210, electronic circuit breakers ESS20 or electronic circuit protector ESX10 or E-T-A Solid State Remote Power Controllers (SSRPC) E-1048-600/700. Please specify the correct option according to the ordering information shown, as different depths as well as different heights of the front cut-out must be allowed for.

The devices are plugged into sockets 63-P10-Si (6 positions each). These sockets (S1...S5) are provided with 6.3 mm blade terminals on the rear.

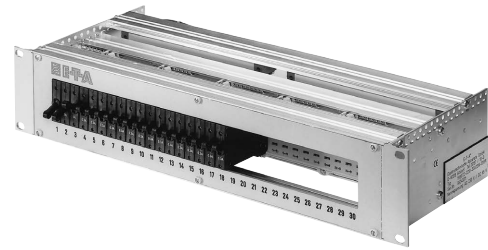
Four busbars (X1...X4) with 6 (signalisation) or 15 (feed) positions each (6.3 mm blade terminals) provide easy terminal connection.

Prewired options available ex factory are:

- Parallel connected feed (2.5 mm²) with separate supply for each socket via busbars X1 and X2.
Choice of wiring colours: black, red, blue, grey. Outputs are not connected.
- Parallel connected auxiliary contacts (N/C) grouped per socket, 1 mm², via busbars X3 (supply) and X4 (signalisation).
Choice of wiring colours: black, red, blue, grey.
- Series connected auxiliary contacts (N/O) of all positions with 1 mm², via busbars X3 (feed) and X4 (signalisation).
Choice of wiring colours: black, red, blue, grey.
- Custom designed connection according to specification.

Other fittings, e.g. back-up fuse, separate circuits or redundancy, multipole circuits, screw terminals, custom designed markings etc., are available to special order (please enquire).

A compact printed circuit board with rear screw terminals is available as an alternative to the standard cable wiring.



Power-D-Box with sockets pre-wired

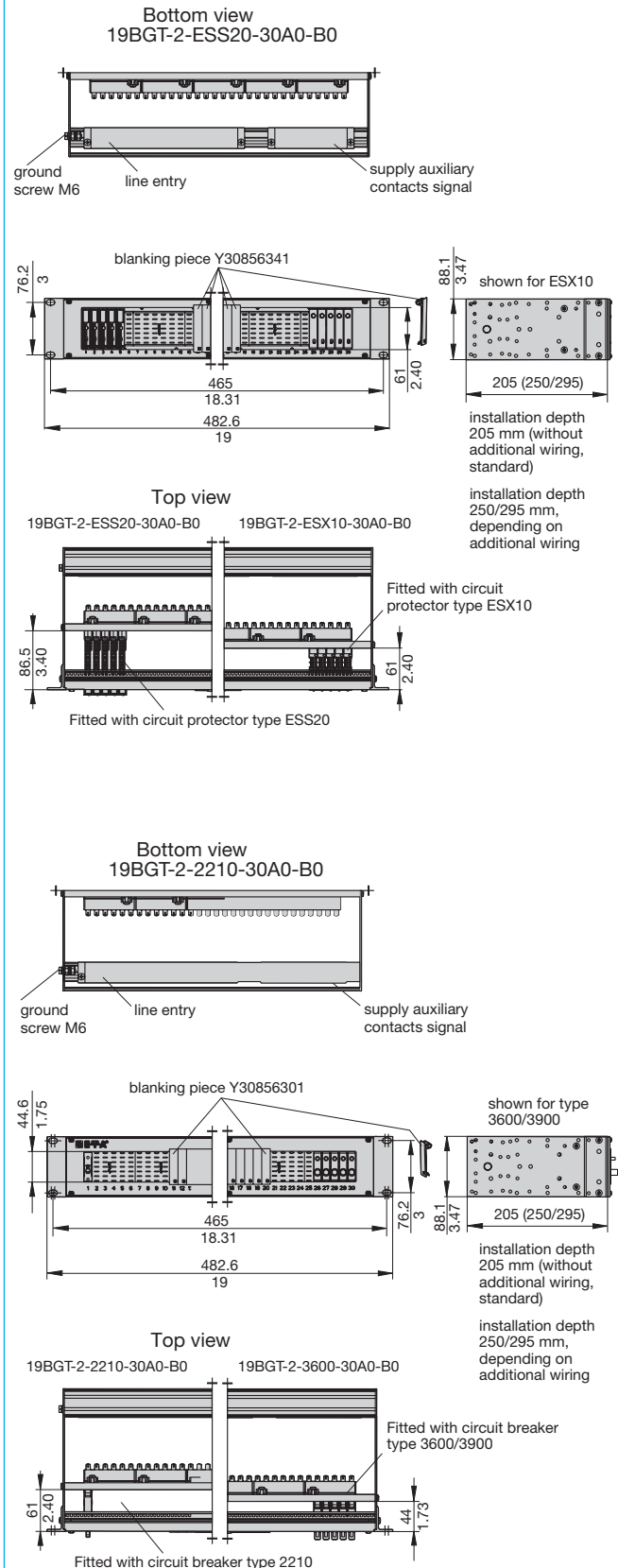
Technical data

19" Power-D-Box	length: 84 modules (426.72 mm) height: 2 U (88.90 mm) depth: 205...295 mm (depending on the selected version) material: aluminium, anodized
Front cutout for 30 positions, numbered 1 through 30	1 socket = 6 positions (No. 1 - 6) 2 sockets = 12 positions (No. 1 - 12) 3 sockets = 18 positions (No. 1 - 18) 4 sockets = 24 positions (No. 1 - 24) 5 sockets = 30 positions (No. 1 - 30) blanks cover unused sockets.
Mounting socket	polarised E-T-A mounting socket type 63-P10-Si (6 positions) rear blade terminals 6.3 mm max. load: 16 A continuous
Busbars Feed (X1, X2)	15-way for 6.3 mm blade terminals max. current rating: 63 A
Busbars Auxiliary contacts (X3, X4)	6-way for 6.3 mm blade terminals max. current rating: 32 A
Feed	busbar 50 A per socket (= 6 positions) HO7Z-K cables 2.5 mm ² with fully insulated 6.3 mm blade terminals to VBG 4 one cable per socket max. current rating: 20 A
Auxiliary contact wiring	HO7Z-K cables 1 mm ² with fully insulated 6.3 mm blade terminals to VBG 4 max. current rating: 4 A
Wire colour option	black, red, blue or grey
Voltage rating	AC 250 V/DC 65 V
Housing ground/earth	on the inside via M6 screw by means of ring cable lug (two with redundant systems)

Ordering information

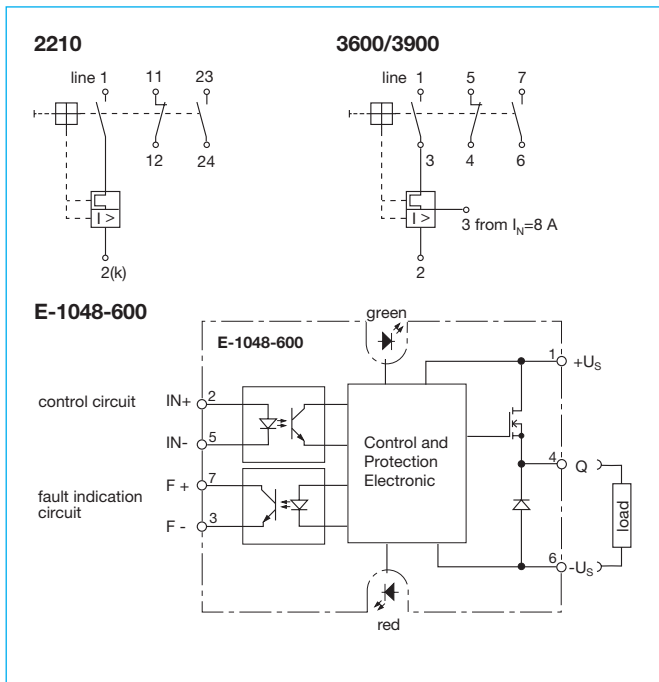
Type No.	
19BGT	19" Power-D-Box with sockets pre-wired
Height	
1	1 U
2	2 U
3	3 U
	Prepared for circuit breaker types (supplied separately)
2210	for circuit breaker type 2210
3600	for circuit breaker type 3600/3900
1048	for SSRPC E-1048-600
ESS20	for electronic circuit breaker type ESS20
ESX10	for electronic circuit protector type ESX10
	Number of positions
06	6-poles
12	12-poles
18	18-poles
24	24-poles
30	30-poles
nn	number of poles (special version)
	Feed prewired
A0	without
R0	without, redundant
A2	line feed pre-wired (2.5 mm ²) 1-pole (or 1 circuit)
R2	line feed pre-wired 1-pole redundant
A4	line feed pre-wired (2.5 mm ²) 2-pole (or 2 circuits)
R4	line feed pre-wired 2-pole redundant
A6	line feed pre-wired 3-pole (or 3 circuits)
R6	line feed pre-wired 3-pole redundant
A8	line feed pre-wired 4-pole (or 4 circuits)
R8	line feed pre-wired 4-pole redundant
	Wire colour (not with A0 + R0)
	1-pole
SW	black
RT	red
BL	blue
GR	grey
	2-pole
RB	1 st pole red, 2 nd pole blue
RS	1 st pole red, 2 nd pole black
SB	1 st pole black, 2 nd pole blue
	3-pole
SW	1 st pole to 3 rd pole black
SB	1 st pole to 2 nd pole black, 3 rd pole blue
	4-pole
SW	1 st pole to 4 th pole black
SB	1 st pole to 3 rd pole black, 4 th pole blue
	Auxiliary contacts prewired (1 mm²)
B0	without
B1	auxiliary contacts connected in series (please consider plug-in device)
B2	auxiliary contacts connected in parallel (please consider plug-in device)
	Wire colour (not with B0)
SW	black
RT	red
BL	blue
GR	grey (standard)
S...	customer-specific version
19BGT - 2 - 2210 - 24 A2 SW - B1 GR - S...	ordering example

Dimensions

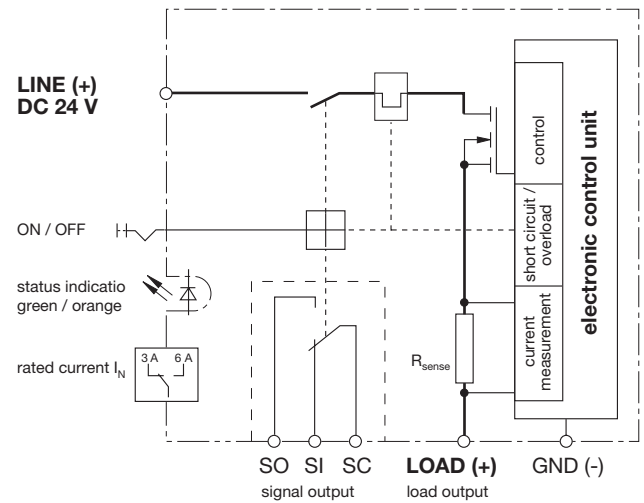


This is a metric design and millimeter dimensions take precedence (mm/inch)

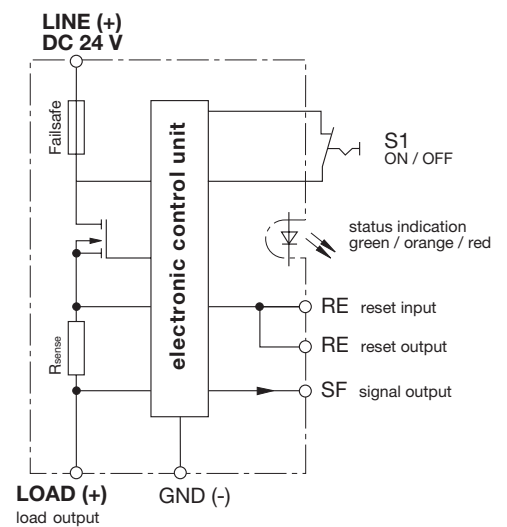
Internal connection diagrams



ESS20-003- ... (group signalisation with change over)



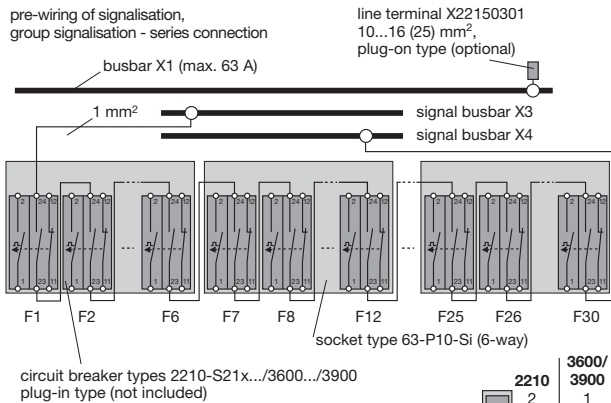
ESX10-124-...



Termination

19BGT-2-2210/3600-30A0-B1

pre-wiring of signalisation,
group signalisation - series connection



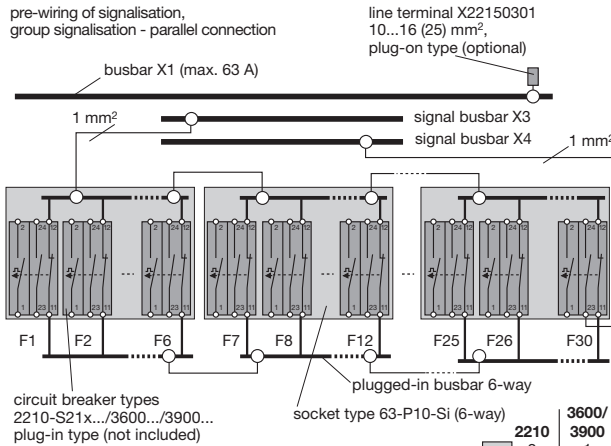
load terminal pin 1, blade terminals 6.3 mm
auxiliary contact terminals:
11-12 make contact, blade terminals 6.3 mm
auxiliary contact terminals:
23-24 break contact, blade terminals 6.3 mm

pin assignment
socket 63-P10-Si
(per pole)

	2210	3600/ 3900
2	1	
12	4	
24	6	
n.c.	3	
23	7	
11	5	
1	2	

19BGT-2-2210/3600-30A0-B2

pre-wiring of signalisation,
group signalisation - parallel connection



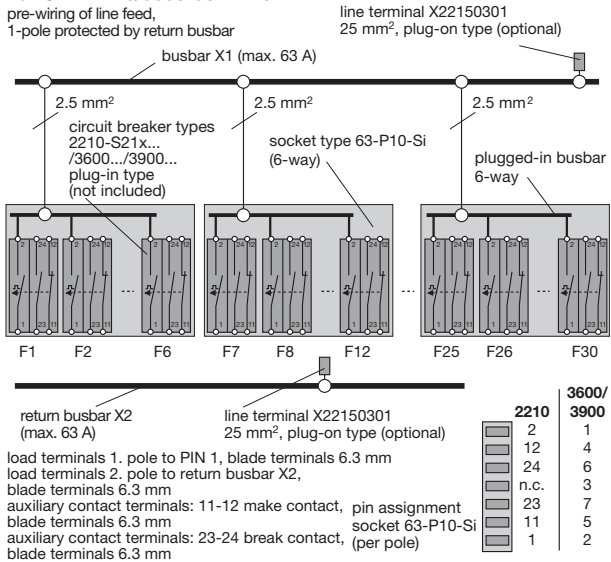
load terminal pin 1, blade terminals 6.3 mm
auxiliary contact terminals:
11-12 make contact, blade terminals 6.3 mm
auxiliary contact terminals:
23-24 break contact, blade terminals 6.3 mm

pin assignment
socket 63-P10-Si
(per pole)

	2210	3600/ 3900
2	1	
12	4	
24	6	
n.c.	3	
23	7	
11	5	
1	2	

19BGT-2-2210/3600-30A2-B0

pre-wiring of line feed,
1-pole protected by return busbar



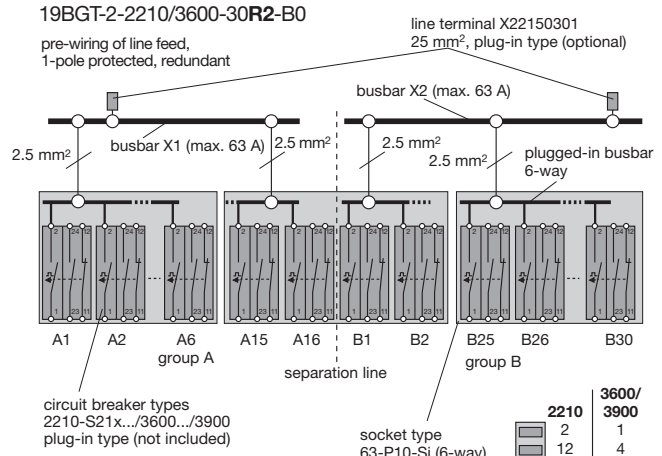
load terminals 1. pole to PIN 1, blade terminals 6.3 mm
load terminals 2. pole to return busbar X2,
blade terminals 6.3 mm
auxiliary contact terminals: 11-12 make contact,
blade terminals 6.3 mm
auxiliary contact terminals: 23-24 break contact,
blade terminals 6.3 mm

pin assignment
socket 63-P10-Si
(per pole)

	2210	3600/ 3900
2	1	
12	4	
24	6	
n.c.	3	
23	7	
11	5	
1	2	

19BGT-2-2210/3600-30R2-B0

pre-wiring of line feed,
1-pole protected, redundant



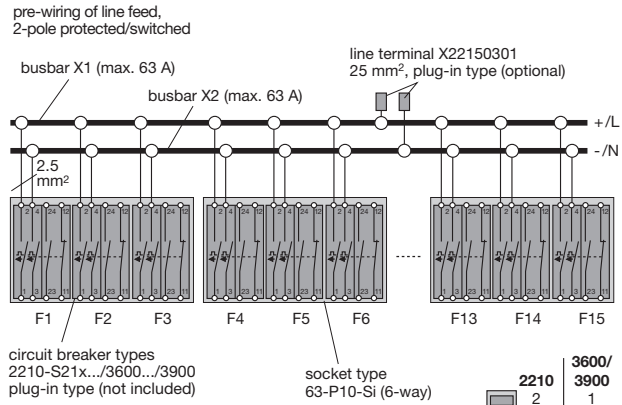
load terminal pin 1, blade terminals 6.3 mm
auxiliary contact terminals:
11-12 make contact, blade terminals 6.3 mm
auxiliary contact terminals:
23-24 break contact, blade terminals 6.3 mm

pin assignment
socket 63-P10-Si
(per pole)

	2210	3600/ 3900
2	1	
12	4	
24	6	
n.c.	3	
23	7	
11	5	
1	2	

19BGT-2-2210/3600-30A4-B0

pre-wiring of line feed,
2-pole protected/switched



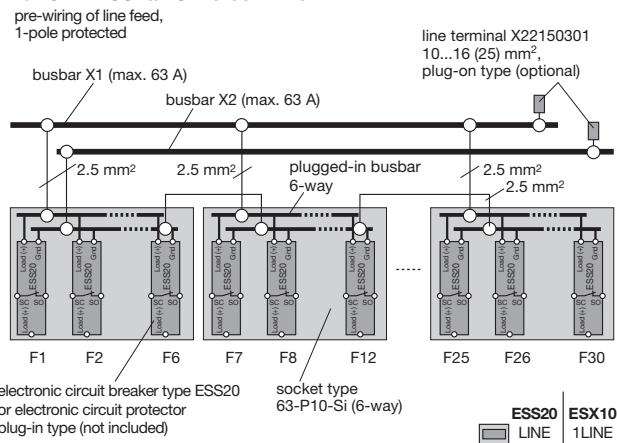
load terminals:
Pin 1 (+/-), Pin 3 (+/-), blade terminal 6.3 mm
auxiliary contact terminals:
11-12 make contact, blade terminals 6.3 mm
auxiliary contact terminals:
23-24 break contact, blade terminals 6.3 mm

pin assignment
socket 63-P10-Si
(per pole)

	2210	3600/ 3900
2	1	
12	4	
24	6	
n.c.	3	
23	7	
11	5	
1	2	

19BGT-2-ESS20/ESX10-30A4-B0

pre-wiring of line feed,
1-pole protected



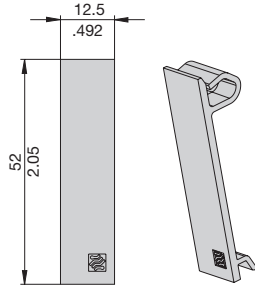
load terminals LOAD(+), blade terminals 6.3 mm
auxiliary contact terminals SC-SO make contact,
blade terminals 6.3 mm

pin assignment
socket 63-P10-Si
(per pole)

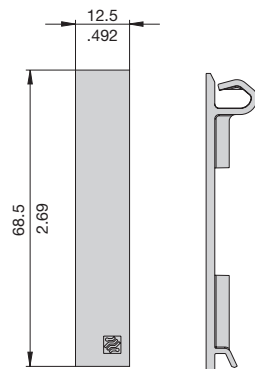
	ESS20	ESX10
LINE	1LINE	
Gnd	11Gnd	
SC	13SC	
n.c.	n.c.	
SO	14SO	
LOAD	2LOAD	

Accessories

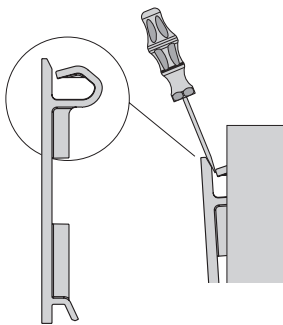
Blanking piece for Power-D-Box (types 3600/3900, 2210) Y 308 563 01



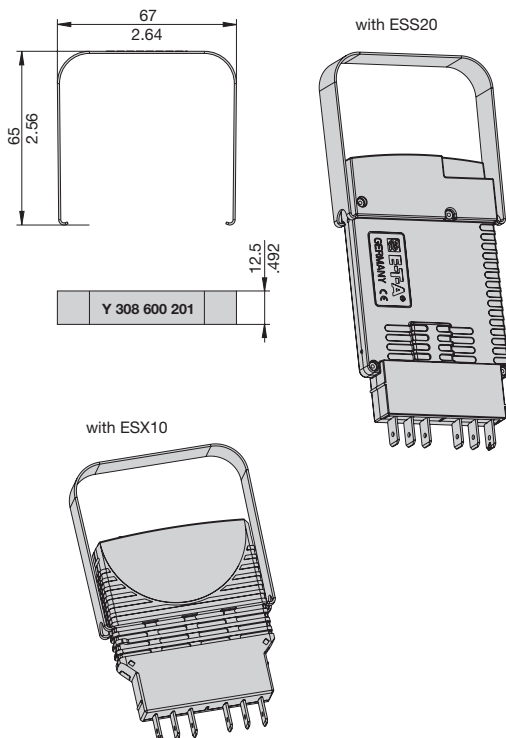
Blanking piece for Power-D-Box (types ESS20/ESX10) Y 308 563 41



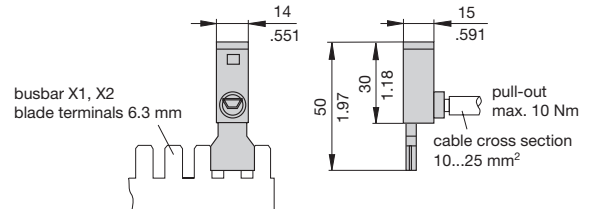
For removing the blanking piece:
push in the screwdriver as shown below



Withdrawal tool for ESS20/ESX10 Y 308 602 01

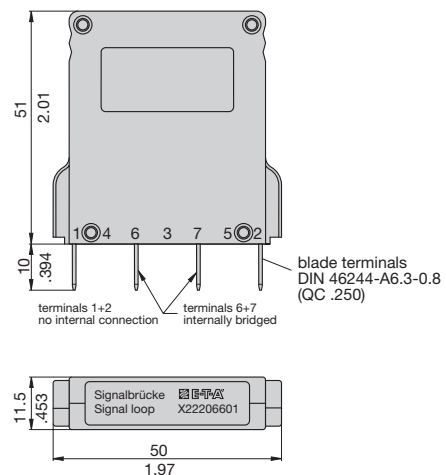


Line Terminal (max. 63 A) X 221 503 01 max. tightening torque 3.0 Nm



Caution: cables must not be connected with terminal plugged in

Jumper to bypass looped through unused auxiliary contacts (series connection) X 222 066 01



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.

