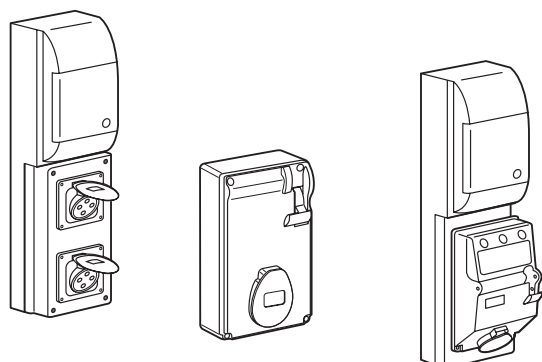


P17 combined units

Cat. No.(s) : 566 XX - 572 XX - 577 XX - 589 XX



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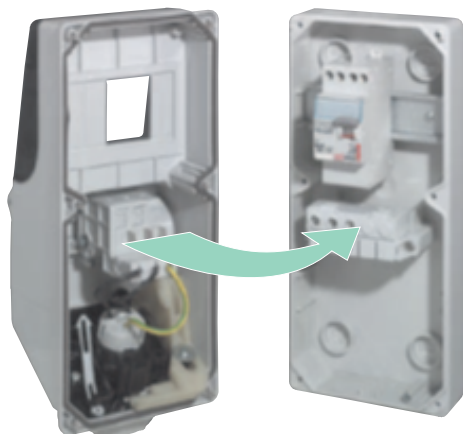
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1. DESCRIPTION

- Product for distributing power close to equipment.
- Supply of several current types (amps/volts) for industrial an/or domestic pin configuration.
- Power supply of one or several equipments.
- Protection of users and circuits :
 - off load connection and disconnection thanks to units equipped with switch controlled socket,
 - protection by MCB, RCBO, RCD (RCCB).
- Material : plastic
- Colour : RAL 7035
- IK 08
- IP 44, IP 55, IP 66

2. USE

- Switch with double mechanical locking :
 - Lock one : switch energizing impossible when the plug is not connected.
 - Lock two : plug removal impossible when the switch is energized.
- Marking of the switch ON and OFF positions.
- See-through window to see quickly the protection devices.
- Cable entries to drill.
- Equipped or to equip with panel mounting sockets with single fixing centres (70 x 70).
- Plug-in system : socket terminal wired automatically, independently of the box already fixed to the wall.



3. RANGE

3.1 Single socket unit

- Single socket unit with switch (surface and panel version) 16 & 32A.
- Single socket unit with switch and rail (surface and panel version) 16 & 32A.
- Single socket unit 63A

			Pannel socket with switch	Single unit with switch and shunt space	Single unit with switch and rail (5 modules)
400V	63A	3P+E	572 94	572 98	589 18
		3P+N+E	572 95	589 10	572 99

- Single ELV combined unit

			Panel socket without rail with transformer 150VA	Panel socket with protection and transformer 160VA	Surface socket without rail with transformer 150VA
24V	16A	2P	589 26	589 25	589 27

3.2 Multi-sockets combined units

Combined units with 2 sockets IP44

Cat. No. 589 20 (evolution until 3 sockets)

Outer dimensions : W 265 x H 441 mm

Max 12 Lexic modules

- 1 x 16A 2P 24V panel version with transformer 150VA
- 1 x 16A 2P + E 230V
- 1 x blanking plate for a third supplementary socket
- 1 x two-pole MCB 6A (Cat. No. 064 64 or 407 780)
- 1 x two-pole MCB 16A (Cat. No. 064 68 or 407 784)
- 1 x two-pole MCB 32A (Cat. No 064 61 or 407 777)

Cat. No 589 21 (evolution until 3 sockets)

Outer dimensions : W 265 x H 441 mm

Max 12 Lexic modules

- 1 x 16A 2P + E 230V
- 1 x 32A 3P + N + E 400V
- 1 x blanking plate for a third supplementary socket
- 1 x two-pole MCB 16A (Cat. No. 064 68 or 407 784)
- 1 x four-pole MCB 32A (Cat. No. 065 66 or 407 901)

P17 combined units

Cat. No.(s) : 566 XX - 572 XX - 577 XX - 589 XX

3. RANGE (continued)

Cat. No. 589 30

Outer dimensions : W 125 x H 371 mm
Max 5 Lexic modules
2 x 16A 2P+E 230V
1 x two-pole MCB 20A (Cat. No. 064 69 or 407 785)

Cat. No. 589 31

Outer dimensions : W 125 x H 371 mm
Max 5 Lexic modules
2 x 16A 2P+E 250V (domestic)
1 x two-pole MCB 20A (Cat. No. 064 69 or 407 785)

Cat. No. 589 32

Outer dimensions : W 125 x H 371 mm
Max 5 Lexic modules
1 x 16A 2P+E 230V
1 x 16A 3P+E 400V
1 x four-pole MCB 20A (Cat. No. 065 64 or 407 899)

Cat. No. 589 37

Outer dimensions : W 125 x H 371 mm
Max 5 Lexic modules
1 x two-pole MCB 20A (Cat. No. 064 69 or 407 785)
1 x 16A 2P+E 230V
1 x 16A 2P+E 250V (domestic)

Combined units with 3 sockets IP44

Cat. No. 589 33

Outer dimensions : W 125 x H 421 mm
Max 5 Lexic modules
2 x 16A 2P+E 250V (domestic)
1 x 16A 2P+E 230V
1 x two-pole MCB 20A (Cat. No. 064 69 or 407 785)

Cat. No. 589 34 (evolution until 4 sockets)

Outer dimensions : W 265 x H 441 mm
Max 12 Lexic modules
2 x 16A 2P+E 250V (domestic)
1 x 16A 2P+E 230V
1 x two-pole MCB 20A (Cat. No. 064 69 407 785)
1 x blanking plate for a fourth socket.

Combined unit with 4 sockets IP44

Cat. No. 589 35 (evolution until 5 sockets)

Outer dimensions : W 265 x H 501 mm
Max 12 Lexic modules
2 x 16A 2P+E 250V (domestic)
1 x 16A 2P+E 230 V
1 x 32A 3P+E 400V
1 x two-pole MCB 20A (Cat. No. 064 69 or 407 785)
1 x three-pole MCB 32A (Cat. No. 064 91 or 407 832)
1 x four-pole MCB 63A (Cat. No. 086 95 or 411 662)
1 x blanking plate for a fifth supplementary socket.

Cat. No. 589 36 (evolution until 5 sockets)

Outer dimensions : W 265 x H 501 mm
Max 12 Lexic modules
2 x 16A 2P+E 250V (domestic)
1 x 16A 2P+E 230V
1 x 32A 3P+N+E 400V
1 x two-pole MCB 20A (Cat. No. 064 69 or 407 785)
1 x four-pole MCB 32A (Cat. No. 065 66 or 407 901)
1 x four-pole RCCB 63A (Cat. No. 086 95 or 411 662)
1 x blanking plate for a fifth supplementary socket.

3. RANGE (continued)

Combined units with 5 sockets IP44

Cat. No. 589 22

Outer dimensions : W 405 x H 441 mm
Max 18 Lexic modules
1 x 16A 2P 24V ELV
1 x 16A 2P 24V ELV with transformer 150VA
1 x 16A 2P+E 250V (domestic)
1 x 16A 2P+E 230V
1 x 16A 3P+E 400V
1 x four-pole RCCB 40A (Cat. No. 086 94 or 411 661)
1 x two-pole MCB 6A (Cat. No. 064 64 or 407 780)
1 x three-pole MCB 16A (Cat. No. 064 88 or 407 829)
1 x two-pole MCB 2A (Cat. No. 064 61 or 407 777)
1 x two-pole MCB 20A (Cat. No. 064 69 or 407 785)

3.3 Multi sockets combined units with faceplates

To equip with 16A panel mounting socket, with single fixing centres (70 x 70) or domestic sockets 576 71/72.

Cat. Nos.	Nb of modules	Characteristics	Outer dim. (H x W)
577 07	5	for 3 x 16A	421 x 125
577 08	12	for 4 x 16A	441 x 265
577 09	18	for 6 x 16A	441 x 405

3.4 Combined units to be equipped : bases for shunt use

Cat. Nos.	Characteristics	Outer dim. (H x W)
577 00	for 1 locked socket or 1 faceplate 280 x 125	421 x 125
577 01	for 2 locked sockets or 2 faceplates 280 x 125	501 x 265
577 02	for 3 locked sockets or 3 faceplates 280 x 125	501 x 405

Nota : Some references of this range will be sold until to be out of stock.

3.5 Combined unit for refrigerated use

Cat. No. 657 106

Combined unit 3P+E 32A 440V - earth at 3 o'clock - with switch and IP 66/67 socket.

All over the world, perishable products are transported in cooled containers by road, sea or rail. The power is supplied by a combined unit for refrigerated containers especially used by the big haulage companies (containers terminals, transit areas, railways stations, ports, airports, warehouses, transport by ships...).

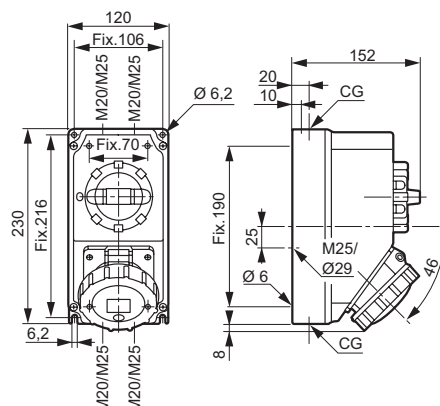
Mobile products:

Plug: 657 126

Mobile socket: 657 146

Fixed product:

Panel mounting socket: 657 116



P17 combined units

Cat. No.(s) : 566 XX - 572 XX - 577 XX - 589 XX

3. RANGE (continued)

3.5 Combined units to equip : bases and boxes

COMBINED UNITS HEIGHT 220 MM TO 441 MM

BASES FOR 220 x 125 MM FACEPLATES								220 X 125 MM FACEPLATES							
Surface mounting box		Base up to 2 sockets 16 A		Base up to 4 sockets 16 A		Base up to 6 sockets 16 A		1 for socket 16 or 32 A		2 for sockets 16 A		1 for socket 63 A		Plain plate	
															
220 x 125 mm ⁽⁴⁾		371 x 125 mm ⁽⁴⁾ Rail 5 Lexic modules		441 x 265 mm ⁽⁴⁾ Rail 12 Lexic modules		441 x 405 mm ⁽⁴⁾ Rail 18 Lexic modules									
Pack	Cat.No	Pack	Cat.No	Pack	Cat.No	Pack	Cat.No	Pack	Cat.No	Pack	Cat.No	Pack	Cat.No	Pack	Cat.No
2	577 10	1	589 38	1	577 05	1	577 06	5	577 12	5	577 13 ⁽¹⁾	2	577 17	5	577 15

COMBINED UNITS HEIGHT 280 MM TO 501 MM

BASES FOR 280 x 125 MM FACEPLATES								280 x 125 MM FACEPLATE							
Surface mounting box		Base up to 3 sockets 16 A		Base up to 6 sockets 16 A		Base up to 9 sockets 16 A		2 sockets 16 or 32 A		1 socket 16 or 32 A and 1 socket 63 A		3 for socket 16 A ⁽³⁾		Plain plate	
															
280 x 125 mm ⁽⁴⁾		421 x 125 mm ⁽⁴⁾ Rail 5 Lexic modules		501 x 265 mm ⁽⁴⁾ Rail 12 Lexic modules		501 x 405 mm ⁽⁴⁾ Rail 18 Lexic modules									
Pack	Cat.No	Pack	Cat.No	Pack	Cat.No	Pack	Cat.No	Pack	Cat.No	Pack	Cat.No	Pack	Cat.No	Pack	Cat.No
3	577 11	1	577 20	1	577 03	1	577 04	4	577 18 ⁽¹⁾	2	577 19 ⁽¹⁾	4	577 14 ⁽¹⁾	4	577 16

(1) Supplied with blanking plate (2) To be fixed horizontally except 16 A domestic pin sockets, vertically (IP 44 - connected)
(3) IP 54 cover closed - IP 44 connected (4) External dimensions: H x W

Nota : these bases equipped with sockets are max IP 66

P17 combined units

Cat. No.(s) : 566 XX - 572 XX - 577 XX - 589 XX

3. RANGE (continued)

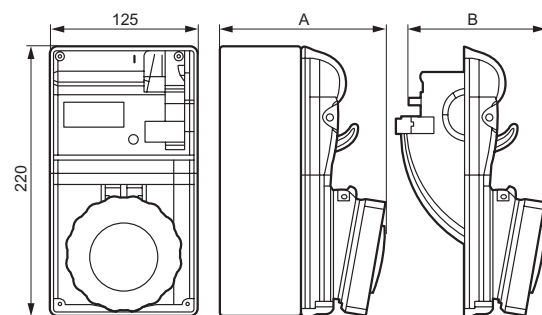
3.6 The main possibilities

Possible combinations with bases for 220 x 125 mm faceplates							
Cat.No	Nb of sockets	Intensity			Number of faceplates		
		16 A	16 A or 32 A	63 A	577 12	577 13	577 17
With box or base							
577 10 or 589 38	1 socket	-	1	-	1	-	-
	2 sockets	2	-	-	-	1	-
577 05	2 sockets	-	2	-	2	-	-
		-	1	1	1	-	1
	-	-	2	-	-	2	
	3 sockets	3	-	-	1	1	-
		2	1	-	1	1	-
		2	-	1	-	1	1
4 sockets	4	-	-	-	2	-	
577 06	3 sockets	-	3	-	3	-	-
		-	-	3	-	-	3
		-	1	2	1	-	2
	-	2	1	2	-	1	
	4 sockets	2	1	1	1	1	1
		2	2	-	2	1	-
		2	-	2	-	1	2
	5 sockets	4	1	-	1	2	-
		4	-	1	-	2	1
	6 sockets	6	-	-	-	3	-

Possible combinations with bases for 280 x 125 mm faceplates							
Cat.No	Nb of sockets	Intensity			Number of faceplates		
		16 A	16 A or 32 A	63 A	577 18	577 19	577 14
With box or base							
577 11 or 577 20	2 sockets	-	2	-	1	-	-
		-	1	1	-	1	-
	3 sockets	3	-	-	-	-	1
577 03	4 sockets	-	4	-	2	-	-
		-	2	2	-	2	-
		-	3	1	1	1	-
	5 sockets	3	1	1	-	1	1
		3	2	-	1	-	1
	6 sockets	6	-	-	-	-	2
577 04	6 sockets	-	6	-	3	-	-
		-	3	3	-	3	-
		-	5	1	2	1	-
		-	4	2	1	2	-
	7 sockets	3	2	2	-	2	1
		3	4	-	2	-	1
		3	3	1	1	1	1
	8 sockets	6	1	1	-	1	2
		6	2	-	1	-	2
	9 sockets	9	-	-	-	-	3

4. DIMENSIONS

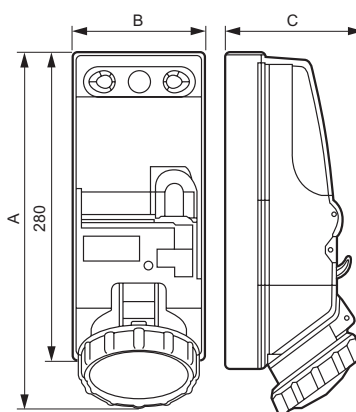
Surface or panel 16/32A single unit with switch



		IP 44 Cat. Nos.	Dimensions (mm)		IP 55 Cat. Nos.	Dimensions (mm)	
			A	B		A	B
LV 16 A	2P+E	566 01	127	122	566 21	133	128
	3P+E	566 05	129	124	566 25	134	129
	3P+N+E	566 06	130	125	566 26	135	130
LV 32 A	2P+E	566 09	138	133	566 29	143	138
	3P+E	566 13	138	133	566 33	143	138
	3P+N+E	566 14	139	134	566 34	144	139

Please, have a look on these dimensions for the similar Cat. Nos

Surface or panel 16/32A single unit with rail and switch

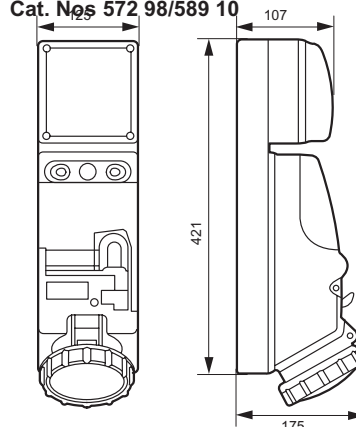


		IP 44 Cat. Nos	Dimensions (mm)			IP 66 Cat. Nos	Dimensions (mm)		
			A	B	C		A	B	C
LV 16 A	2P+E	566 40/41	290	125	155	566 60/61	300	125	155
	3P+E	566 45	290	125	155	566 65	300	125	155
	3P+N+E	566 46	290	125	155	566 66	300	125	155
LV 32 A	2P+E	566 49	295	125	155	566 69	310	125	155
	3P+E	566 53	295	125	155	566 73	310	125	155
	3P+N+E	566 54	295	125	155	566 74	310	125	155

Please have a look on these dimensions for the similar Cat. Nos

Single surface 63A unit with switch (with shunt space)

Cat. Nos 572 98/589 10

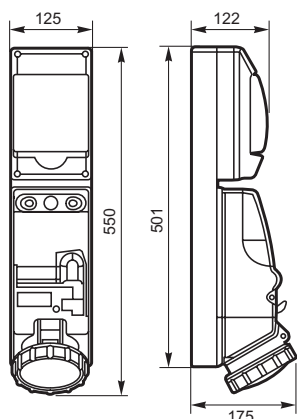


P17 combined units

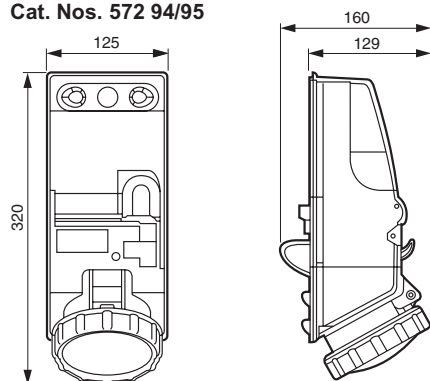
Cat. No.(s) : 566 XX - 572 XX - 577 XX - 589 XX

4. DIMENSIONS (continued)

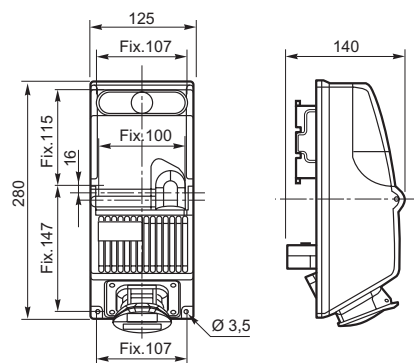
63A surface single unit with switch and rail
Cat. Nos. 572 99/589 18



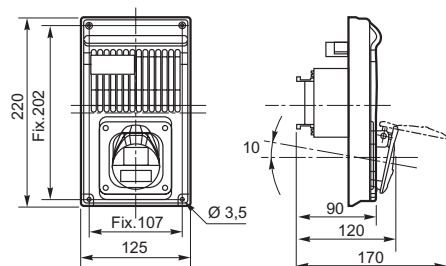
63A panel single unit with switch
Cat. Nos. 572 94/95



ELV sockets and combined units
Cat. No. 589 25

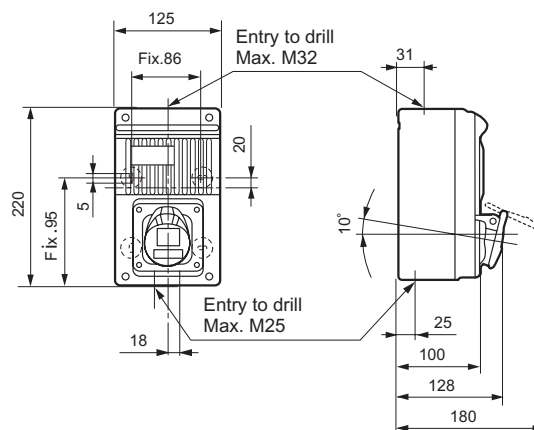


Cat. No. 589 26

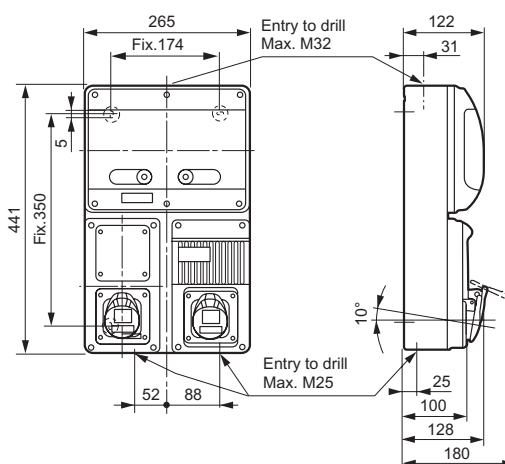


4. DIMENSIONS (continued)

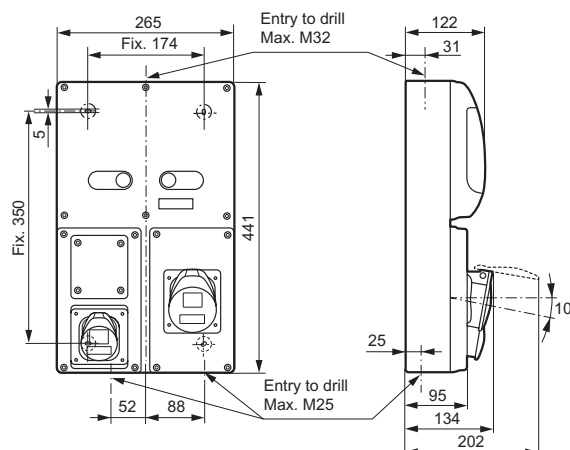
Cat. No. 589 27



2 sockets with MCB and transformer
Cat. No. 589 20



2 sockets with MCB
Cat. No. 589 21



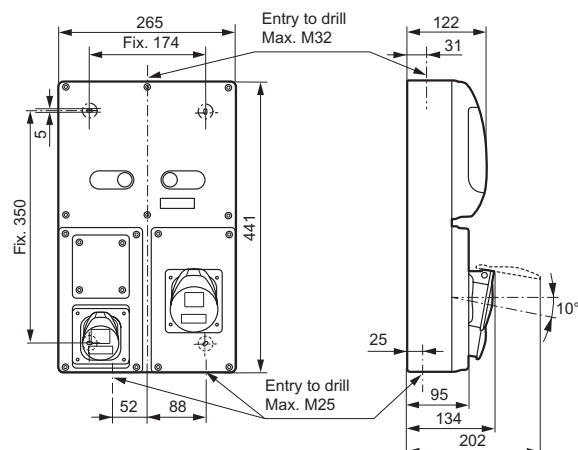
P17 combined units

Cat. No.(s) : 566 XX - 572 XX - 577 XX - 589 XX

4. DIMENSIONS (continued)

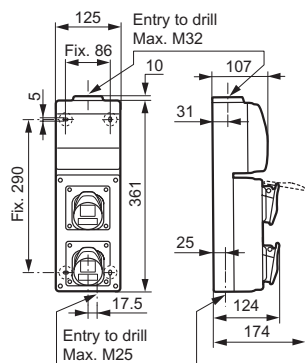
5 sockets with MCB + RCD + transformer

Cat. No. 589 22

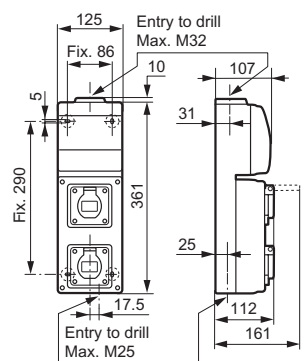


2 sockets with MCB

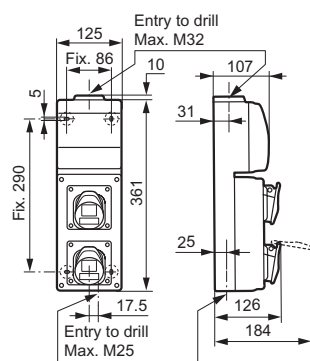
Cat. Nos. 589 30/37



Cat. No. 589 31



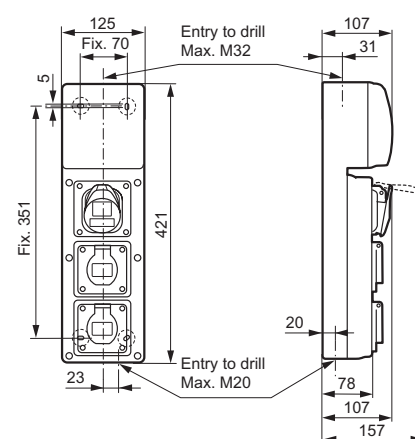
Cat. No. 589 32



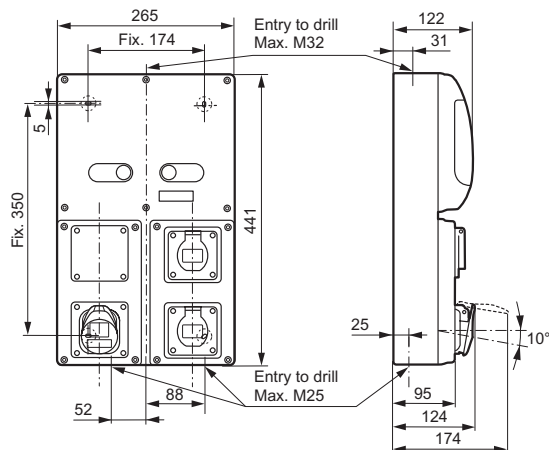
4. DIMENSIONS (continued)

3 sockets with MCB

Cat. No. 589 33

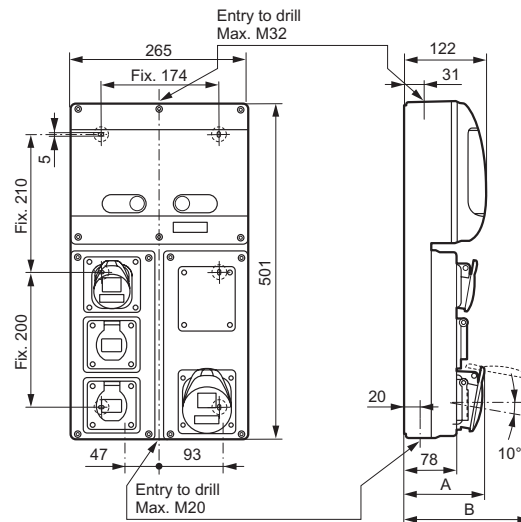


Cat. No. 589 34



4 sockets with MCB and RCD

Cat. Nos 589 35/36



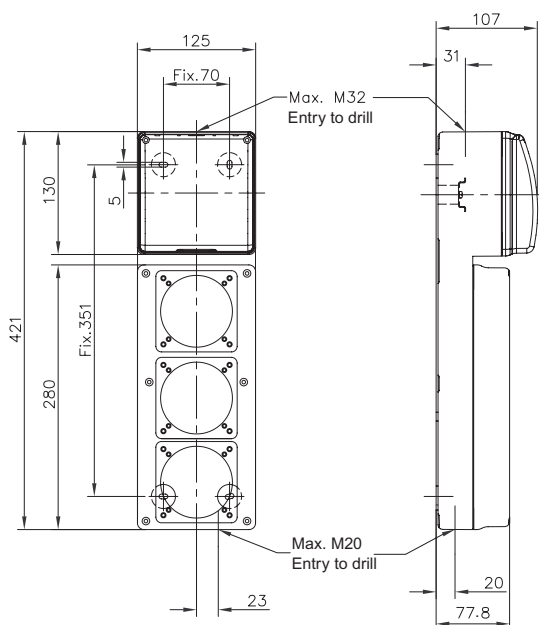
	A	B
589 35	117	185
589 36	118	193

P17 combined units

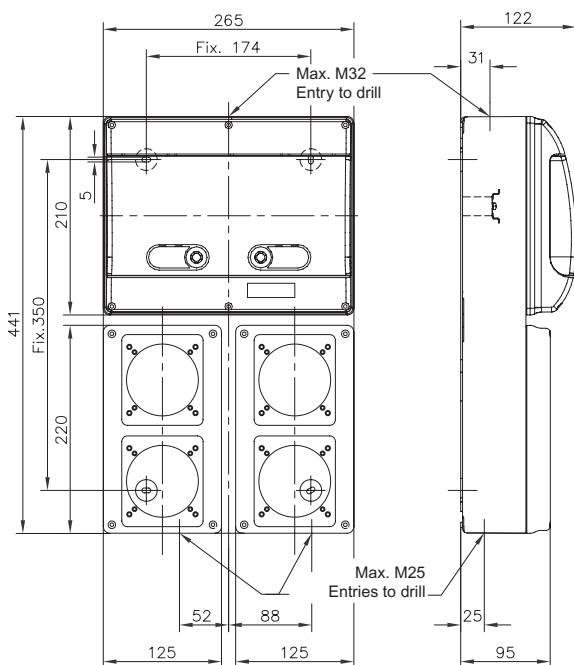
Cat. No.(s) : 566 XX - 572 XX - 577 XX - 589 XX

4. DIMENSIONS (continued)

Empty multisockets combined units equipped with faceplate
Cat. No. 577 07

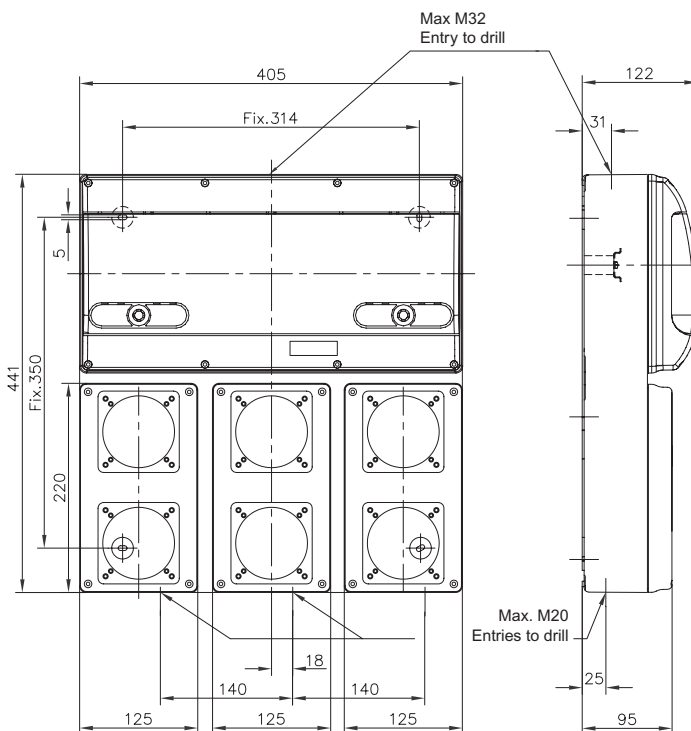


Cat. No. 577 08



4. DIMENSIONS (continued)

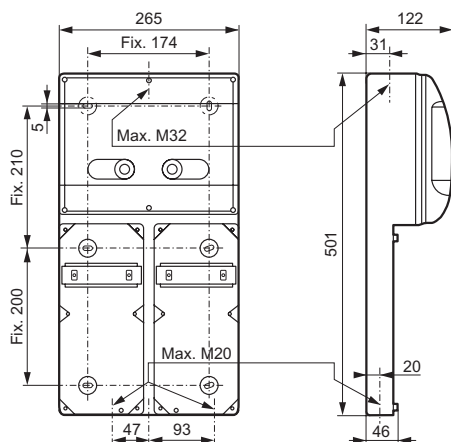
Cat. No. 577 09



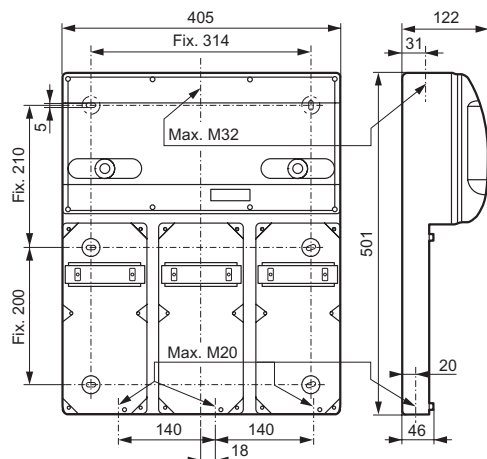
4. DIMENSIONS (continued)

Bases

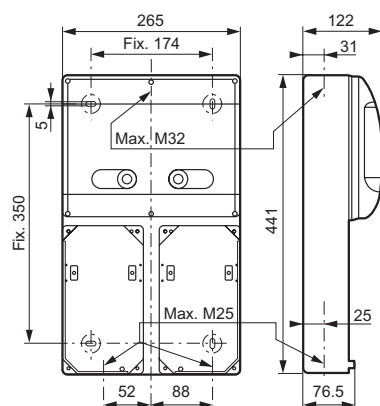
Cat. No. 577 01/03



Cat. No. 577 02/04

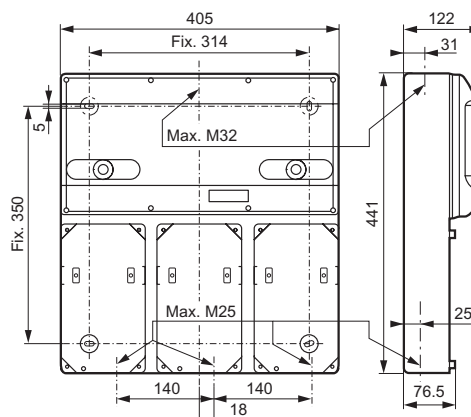


Cat. No. 577 05

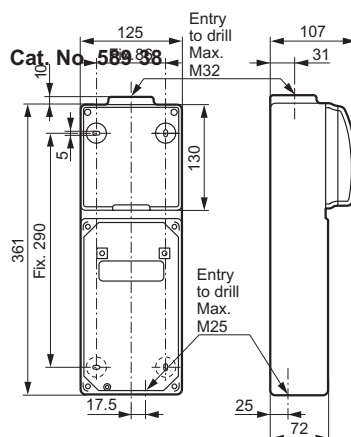
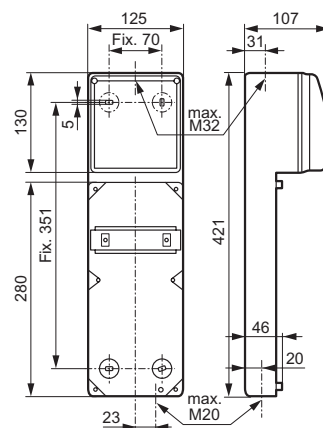


4. DIMENSIONS (continued)

Cat. No. 577 06



Cat. No. 577 00/20



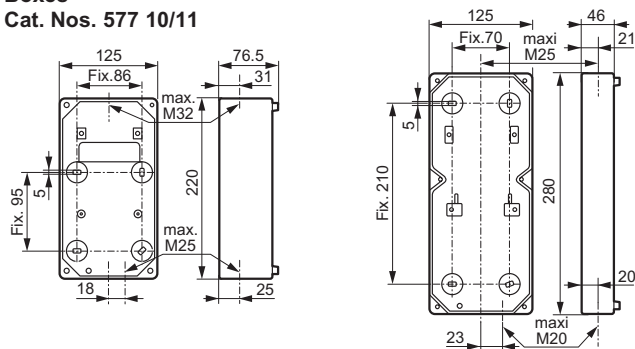
P17 combined units

Cat. No.(s) : 566 XX - 572 XX - 577 XX - 589 XX

4. DIMENSIONS (continued)

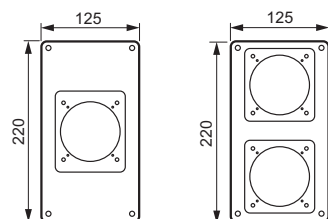
Boxes

Cat. Nos. 577 10/11

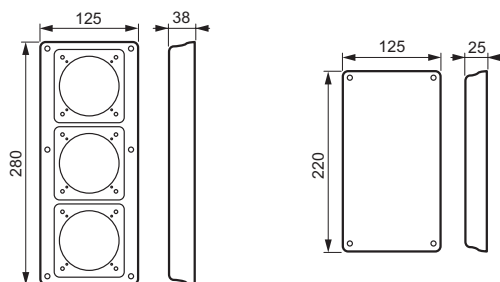


Faceplates

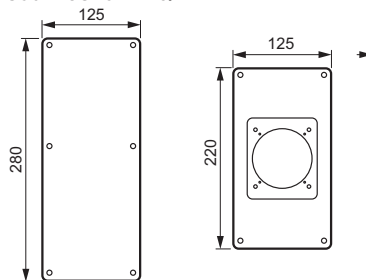
Cat. Nos. 577 12/13



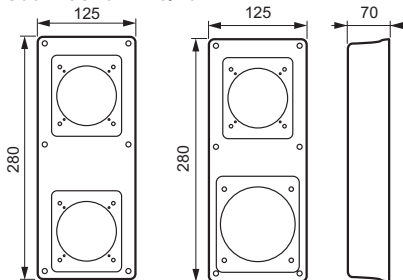
Cat. Nos. 577 14/15



Cat. Nos. 577 16/17



Cat. Nos. 577 18/19



5. CONNECTION

5.1 Wiring of the sockets

Cable section inside the unit, according to the current rating used :

- PC 16A :2.5 mm²
- PC 32A :6 mm²
- PC 63A :16 mm²
- ELV :2.5 mm² primary
-2.5 mm² secondary

5.2 Connection sections

	Cable	
	rigid	flexible
DNX, DX single pole + N, differential or not	16	10
DX, DX-h, DX-D 15 kA, DX-MA 63A differential blocks 63A differential switches and blocks	35	25
DX-h, differential blocks 80, 100, 125A DX-L, DX-D 25kA, DX-MA 10A	70	50
Auxiliaries	2.5	2.5

5.3 Protection

The combined units equipped with Lexic MCB and/or Lexic RCCB (see details page 1/2).

NB : According to the required use, it is essential to check that the protection against indirect contacts (residual current) and the protection against overloads and short circuits (Lexic circuit breakers) are both well covered.

Caution : A residual current device does not provide protection against overloads and short circuits.

Short-circuit withstand : for the short-circuit withstand of modular circuit breakers, RCBOs and RCCBs, refer to the performance pages for these products in the current Legrand catalogue.

Reminder of the ratings for units equipped with residual current device.

Rating	Sensitivity
-16A.....25A residual current circuit breaker	30mA
-32A.....40A residual current circuit breaker	
-63A.....63A residual current circuit breaker	

6. TECHNICAL CHARACTERISTICS

6.1 Glow wire resistance

- active parts : 850°C
- housing : 650°C

6.2 Dielectric strength

- equipped with IEC sockets : 2 500V
- equipped with domestic sockets : 2 000V

6.3 UV resistance

Dose rate : 550W/m²

Test duration : 168 hours Infrared and ultraviolet filter in order to get as close to the solar spectrum as possible.

6.4 Breaking capacities

	16A	32A	63A
AC 23	8.4 kW	16.8 kW	33 kW
AC 22			
AC 23B			

6. TECHNICAL CHARACTERISTICS

6.5 Temperature of use

- With a mechanical locking only: - 20°C / + 100°C
- With protection (MCB/RCCB): - 15°C / + 40°C

Reminder on the derating circuit breaker according to ambient temperature.

A standardised circuit breaker is adjusted to operate at in at an ambient temperature of 30°C.

The nominal characteristics of this device are modified according to the ambient temperature inside the cabinet or the enclosure where the circuit breaker is located.

In	Ambient temperature/IM					
	-10°C	0	10°C	20°C	30°C	40°C
0.5A	0.6	0.57	0.55	0.52	0.5	0.47
0.8A	0.96	0.92	0.88	0.84	0.8	0.76
1A	1.17	1.1	1.07	1.03	1	0.97
2A	2.34	2.21	2.14	2.06	2	1.94
3A	3.5	3.36	3.24	3.12	3	2.88
4A	4.7	4.44	4.28	4.12	4	3.88
6A	7	6.6	6.4	6.18	6	5.8
8A	9.6	9.2	8.8	8.4	8	7.6
10A	11.5	11.1	10.7	10.3	10	9.7
13A	15	14.3	13.9	13.4	13	12.6
16A	18.7	18	17.3	16.6	16	15.4
20A	23.2	22.4	21.6	20.8	20	19.2
25A	29.5	28.3	27.2	26	25	24
32A	37.8	36.5	34.9	33.3	32	30.7
40A	48	46	44	42	40	38
50A	60	57.5	55	52.5	50	47.5
63A	75.6	72.5	69.9	66.1	63	59.8

6.6 Resistance to chemical agents

	Housing	Window
Aqueous solutions		
Cold water	++	++
Warm water	+	++
Vapour	--	++
Saltwater 5 %	++	++
Hydrogen peroxide	-	++
Water + detergent	+	-
Water + surfactants	+	+
Formic aldehyde	-	++
Alcohols		
Ethanol	+	+
Methyl alcohol	+	-
Propanol	++	-
Butyl alcohol	++	-
Glycols		
Ethylene glycol	-	+
Carbolic acids	-	-
Cresols	-	-
Bases		
Ammoniac	+	-
Sodium hydroxide	++	-
Sodium hypochlorite (bleach 12°)	++	+
Potassium hydroxide	++	-
Oxydizing strong acids		
Concentrated acetic acid	+	++

6. TECHNICAL CHARACTERISTICS (continued)

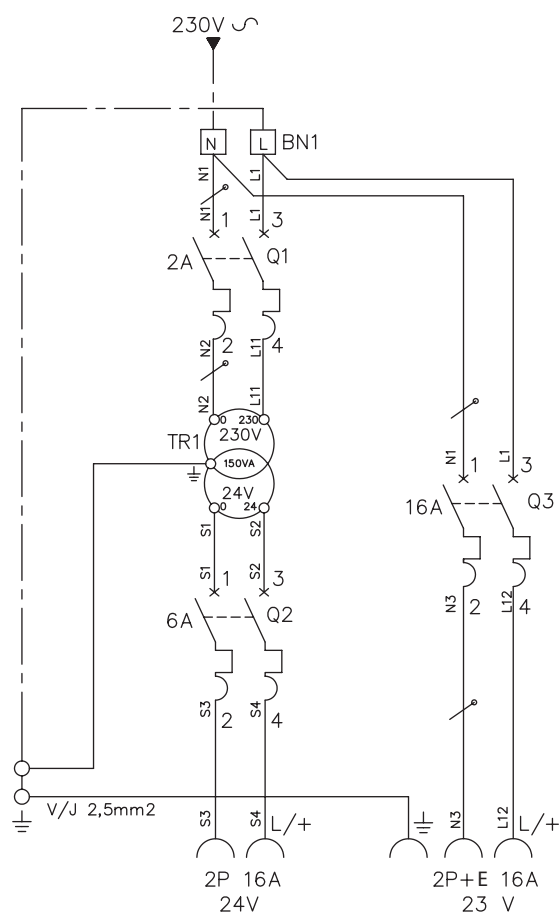
	Housing	Window
Nitric acid 5 %	-	++
Sulfuric acid 10 %	+	++
Muriatic acid 30 %	-	+
Perchloric acid 70 %	-	+
Hydrofluoric acid 70 %	-	++
Chromic acid 50 %	+	+
Phosphoric acid 30 %	+	+
Weak acids		
Diluted acetic acid < 25 %	++	++
Citric acid	++	++
Lactic acid	++	++
Formic acid	-	-
Uric acid	++	+
Oils and lubricants - Animal origin		
Lard	+	-
Butter, cream	++	++
Oils and lubricants - Vegetal origin		
Linseed oil	++	-
Peanut / Olive	++	+
Castor oil	++	++
Glycerin	-	-
Oils and lubricants - Mineral origin		
Paraffin	++	++
Engine oil	-	-
Silicone oil	++	++
Cutting oil	+	-
Hydraulic fluid	+	--
Hydrocarbons		
Unlead petrol	+	-
Diesel oil	+	+
Kerosen	+	+
White spirit	+	-
Chlorinated solvents		
Trichloroethylene	-	--
Trichloroethane	-	-
Perchloroethylene	-	--
Methyl chloride	-	--
Carbon tetrachloride	-	--
Chloroform	--	--
Aromatic solvents		
Benzen	-	-
Toluene	-	-
Xylene	-	-
Alphatic solvents		
Hexane	-	+
Heptane	-	-
Fluoride solvents		
Trichlofluoridmethan	-	--
Ketones		
Acetone	--	--
Methyl Etyl Ketone	--	--
Ethyl acetate	--	--
Turpens		
Turpentine	-	-

Resistance to chemical agents at ambient temperature according to risks of exposure with spraying.

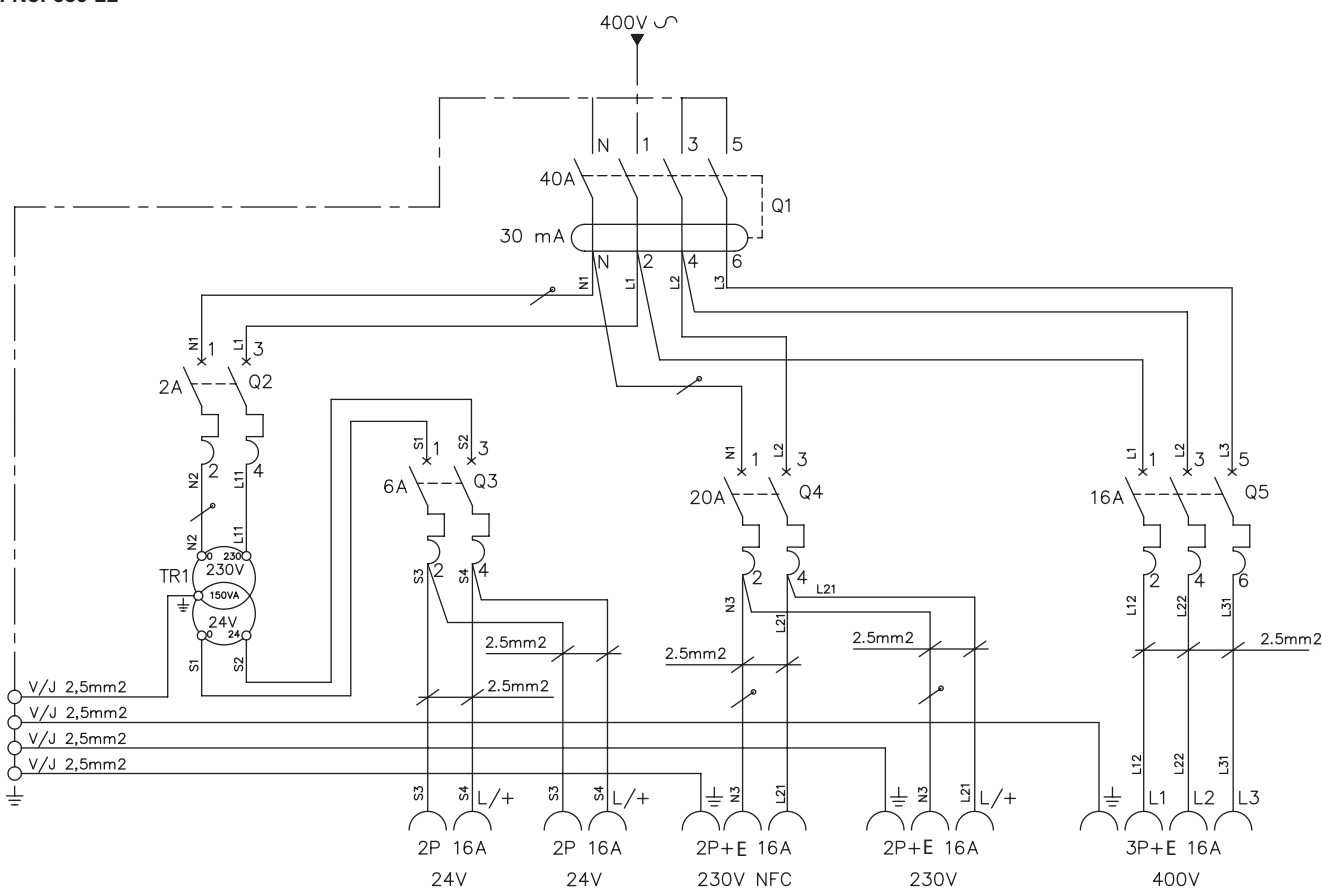
- ++ excellent resistance (continue exposure)
- + good resistance (durable exposure)
- limited resistance (possible short exposure)
- light resistance (exposure to avoid)

7.WIRING DIAGRAMS

Cat. No. 589 20

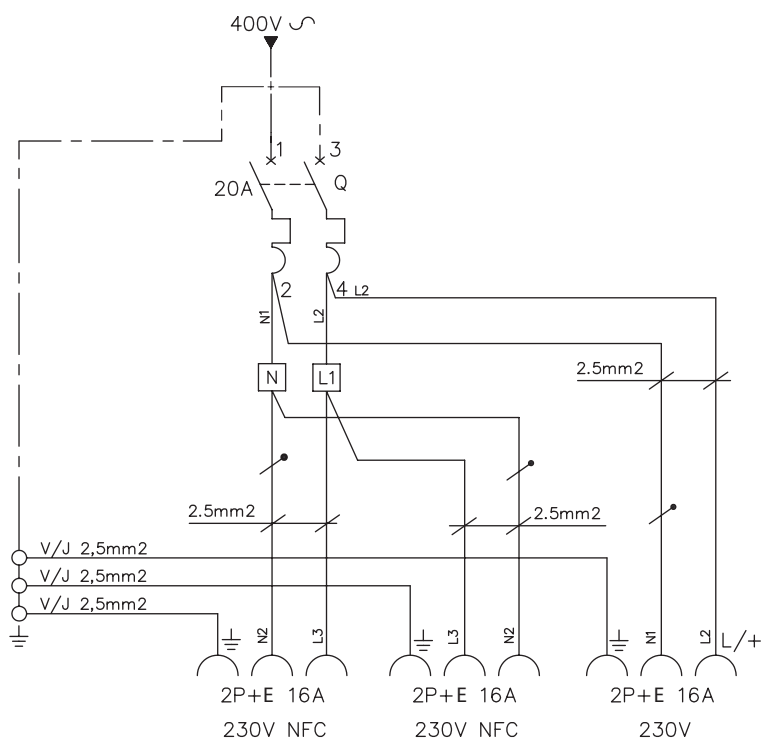


Cat. No. 589 22

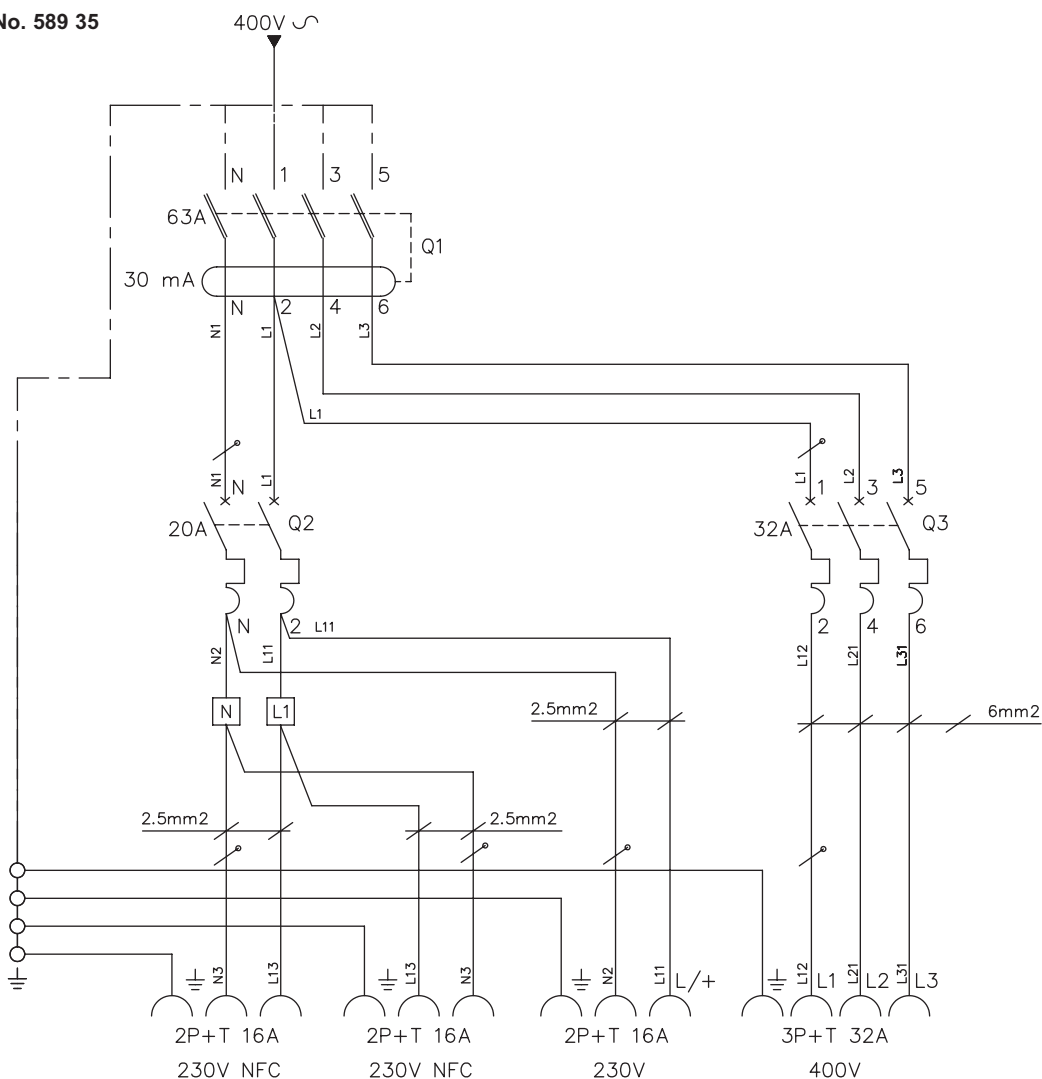


7. WIRING DIAGRAMS (continued)

Cat. No. 589 34

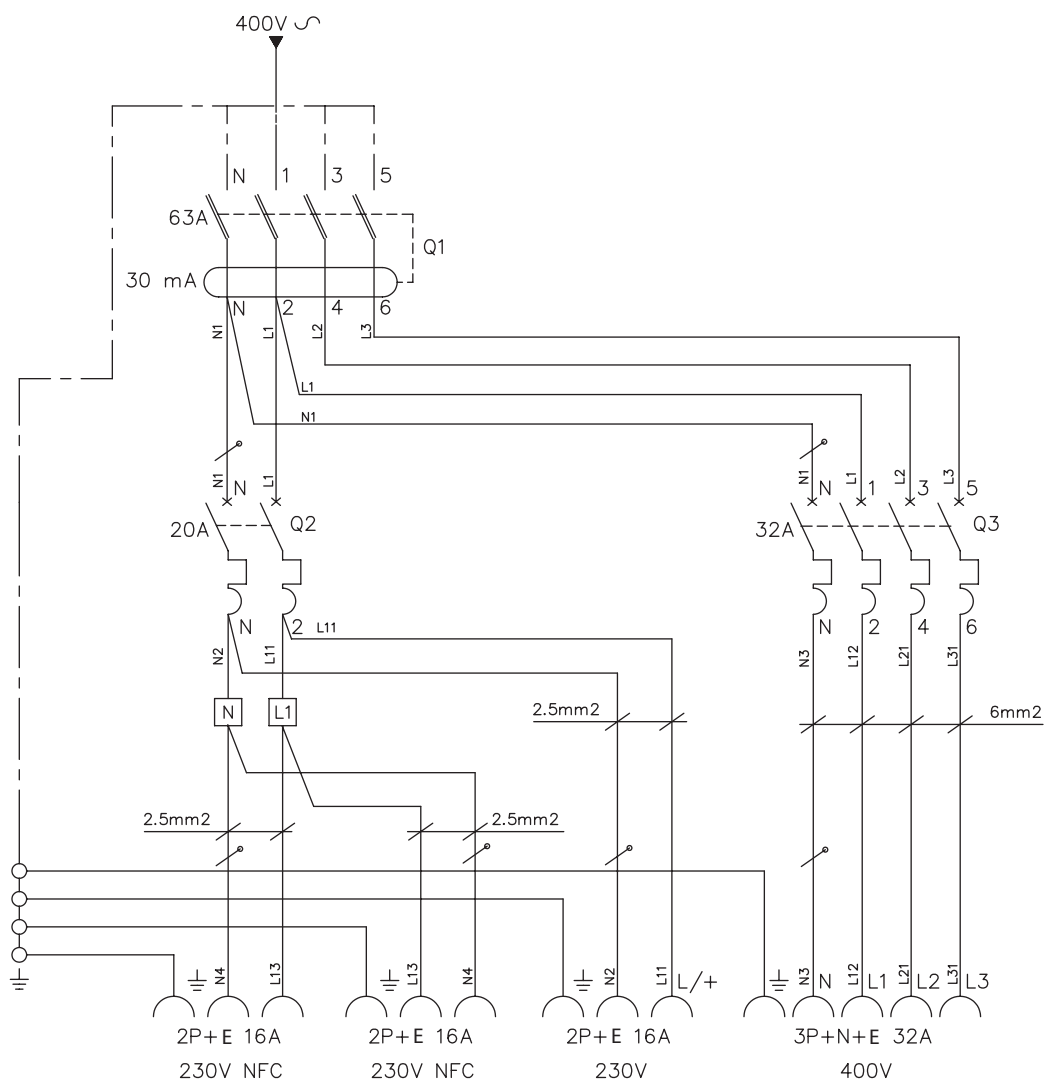


Cat. No. 589 35



7. WIRING DIAGRAMS (continued)

Cat. No. 589 36



8. STANDARDS AND DECREE

- NF EN 60 309.1 and IEC 60 309.1
- NF EN 60 309.2 and IEC 60 309.2
- NF EN 60 529 and IEC 60 529
- NF EN 62 262 and IEC 62 262
- NF EN 60 439.1 and IEC 60 439.1
- Decree 14/11/1988

9. ACCESSORIES

Handles



Supplied with lugs to wind the cable for combined unit :

5 modules : **Cat. No. 577 37**

12 modules : **Cat. No. 577 38**

18 modules : **Cat. No. 577 39**

Key lock

Cat. No. 577 35



Allows an optimal safety thanks to the key lock.

Plates with Osmoz buttons

Osmoz emergency stop button

Cat. No. 577 40

For cutting off the power supply of the units.

Plate fixed on pre-drilled faceplate.

Supplied in parts ready for assembly.

Supplied with push-pull 2 NC contact block.

Osmoz emergency break button

Cat. No. 577 45

For cutting off the power supply of the units.

Plate fixed on pre-drilled faceplate.

Supplied in parts ready for assembly.

Supplied with push-pull 1 NO contact block.