

topTER

SERIES

ACTIVE PROTECTION



topTER series

Active protection

Industrial sockets
splash proof and watertight
IP44, IP66/IP67

PRODUCT SPECIFICATIONS

| | | |
|-------------------------|------------------------------------|-------------|
| Conformity to standards | EN 60309-1 | IEC 60309-1 |
| | EN 60309-2 | IEC 60309-2 |
| | EN 60529 | IEC 60529 |
| | EN 60947-3 | IEC 60947-3 |
| | VDE0623 | |
| Protection rating | IP44 - IP66/IP67 | |
| Impact resistance | > IK 08 | |
| Glow wire test | 960°C Switch / 850°C socket insert | |
| Self-extinguishing | V0 / V2 | |
| Switch category | AC3 AC23A at Rated current | |
| Temperature resistance | Operating | -25°C +50°C |

TopTER series is a new generation of industrial sockets with active protection system designed to avoid all accidental contacts that may affect the safety and good functioning of the electrical system.

The series has a double protection degree, IP66 and IP67, which guarantees a total protection against dusts, water jets and temporary immersion.

Modularity: Numerous circuits can be created with few components. Indeed, **topTER is a modular system:** industrial, interlocked and civil sockets including data transmissions can be combined in absolute freedom.

Long-term stability:
generous interior spaces
allow for optimal
temperature dissipation,
avoiding deteriorating and
premature ageing of the
board.



Facility: Optimization of interior spaces by leaving **large areas of wiring**, facilitates wiring and maintenance operations.

All windowed enclosures are equipped with **hinged front** (installable both on the right and left side) which gives full access to the whole board.

Safety: The interlocked sockets are equipped with rear panel isolator switches **AC3-AC23A** which guarantees:

- load break disconnect at nominal current
- insulation in OFF position, thanks to safe distances between contacts
- 10.000 switching cycles at full load.

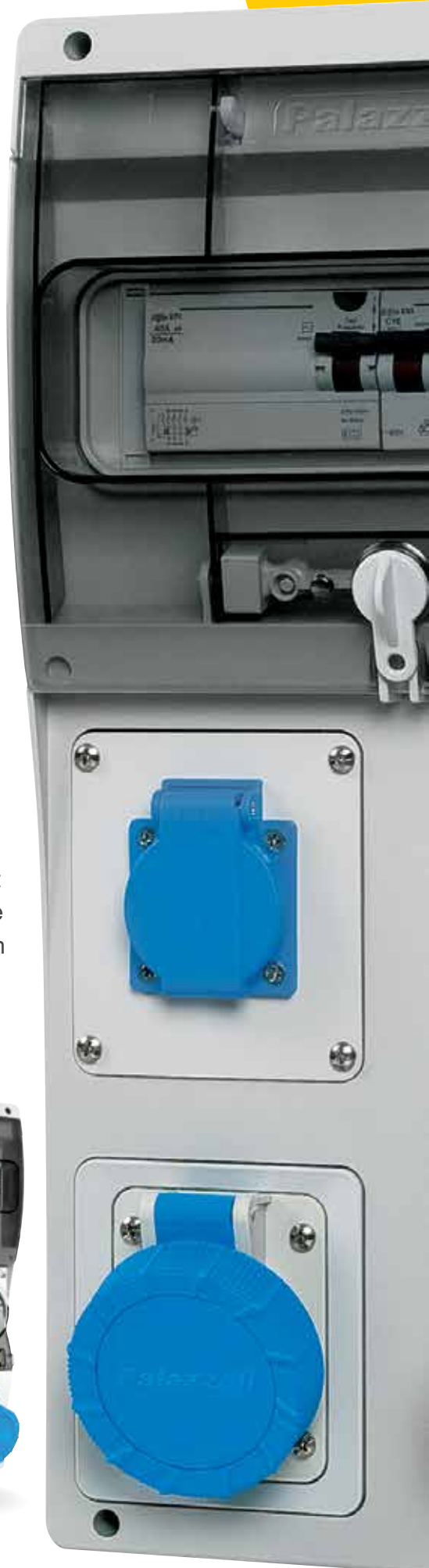
Guarantee: topTER has **passed several tests**, i.e. protection degree IP, glow wire test, flammability, vibrations, low temperatures, salty atmosphere and impacts .

Prevention: All control gear windows are fitted with **locking device** to avoid unauthorized access.





All interlocked sockets can be locked both at position 0 and 1.

Control: All industrial sockets IEC60309 (the interlocked and not interlocked) can be equipped with additional micro switch contacts that allow a **remote signaling** of plug insertion.







Easy to equip: The inside of the board has been designed in order to give **full freedom** to the users **to install internal parts** (DIN rail, equipotential bars, etc.) without need for additional drilling. All boards can be also set for mobile use with simple addition of some parts (support parts, handles, etc.).



READY FOR USE AND CERTIFIED PRE-WIRED BOARDS

| | CEE | | CEE | Schuko | Protection | Code |
|---|------|-----|------|--------|---|--------|
| | 400V | | 230V | | | |
| | 16A | 32A | 16A | | | |
| | 5P | 5P | 3P | | | |
|  | 1 | | | 2 | 1 Residual current device 40A, 0, 03A, 4P, A 3 Miniature circuit breakers 2 x 16A, 1P, C 1 x 16A, 3P, C | 578610 |
| | | 1 | | 2 | 1 Residual current device 40A, 0, 03A, 4P, A 3 Miniature circuit breakers 2 x 16A, 1P, C 1 x 32A, 3P, C | 578611 |
| | 1 | | | 2 | 3 Miniature circuit breakers 2 x 16A, 1P, C 1 x 16A, 3P, C | 578612 |
| | | 1 | | 2 | 3 Miniature circuit breakers 2 x 16A, 1P, C 1 x 32A, 3P, C | 578613 |
| | 1 | | | 2 | | 578600 |
| | | 1 | | 2 | | 578601 |
|  | | | 3 | 1 | 1 Residual current device 40A, 0, 03A, 4P, A 4 Miniature circuit breakers 4 x 16A, 1P, C | 578810 |
| | 1 | | 2 | 1 | 1 Residual current device 40A, 0, 03A, 4P, A 4 Miniature circuit breakers 3 x 16A, 1P, C 1 x 16A, 3P, C | 578811 |
| | 2 | | 1 | 1 | 1 Residual current device 40A, 0, 03A, 4P, A 3 Miniature circuit breakers 2 x 16A, 1P, C 1 x 16A, 3P, C | 578812 |
| | 1 | 2 | | 1 | 1 Residual current device 40A, 0, 03A, 4P, A 2 Miniature circuit breakers 1 x 16A, 1P, C 1 x 16A, 3P, C | 578813 |
|  | 1 | 1 | 1 | | 1 Residual current device 40A, 0, 03A, 4P, A 2 Miniature circuit breakers 1 x 16A, 1P, C 1 x 16A, 3P, C | 578814 |
|  | 1 | | | 1 | 2 Miniature circuit breakers 1 x 16A, 1P, C 1 x 32A, 3P, C | 578710 |

READY FOR USE AND CERTIFIED PRE-WIRED BOARDS

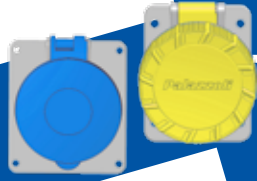
| | CEE | | | CEE | Schuko | Protection | Code |
|---|------|-----|-----|------|--------|--|--------|
| | 400V | | | 230V | | | |
| | 16A | 32A | 63A | 16A | | | |
| | 5P | 5P | 5P | 3P | | | |
|  | 1 | 1 | | | 1 | 2 Miniature circuit breakers 1 x 16A, 1P, C 1 x 16A, 3P, C | 578830 |
|  | 1 | | | | 3 | 1 Residual current device 40A, 0, 03A, 4P, A 3 Miniature circuit breakers 2 x 16A, 1P, C 1 x 16A, 3P, C | 578831 |
|  | 2 | 1 | | | 3 | 1 Residual current device 63A, 0, 03A, 4P, A 6 Miniature circuit breakers 3 x 16A, 1P, C 2 x 16A, 3P, C 1 x 32A, 3P, C | 578832 |
| | 1 | 1 | | | 4 | 1 Residual current device 63A, 0, 03A, 4P, A 6 Miniature circuit breakers 4 x 16A, 1P, C 1 x 16A, 3P, C 1 x 32A, 3P, C | 578833 |
|  | | | | | 6 | 1 Residual current device 40A, 0, 03A, 4P, A 3 Miniature circuit breakers 3 x 16A, 1P, C | 578720 |
|  | 3 | 2 | | 1 | 6 | 1 Residual current device 100A, 0, 03A, 4P, A 9 Miniature circuit breakers 4 x 16A, 1P, C 3 x 16A, 3P, C 2 x 32A, 3P, C | 505790 |
|  | 3 | 1 | 1 | | 4 | 1 Residual current device 100A, 0, 03A, 4P, A 9 Miniature circuit breakers 2 x 16A, 1P, C 1 x 16A, 3P, C 1 x 32A, 3P, C 1 x 63A, 3P, C | 505791 |

THE SYSTEM

Socket-outlet IEC60309

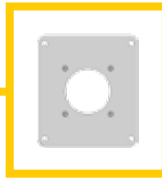
16-32A
IP44-67

63A
IP67



Schukos

German
French
Polish



579848

Domestic and command devices

Data
Switches
Push buttons



OR



579547



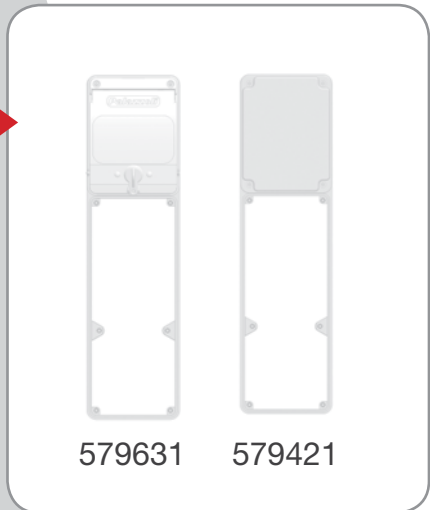
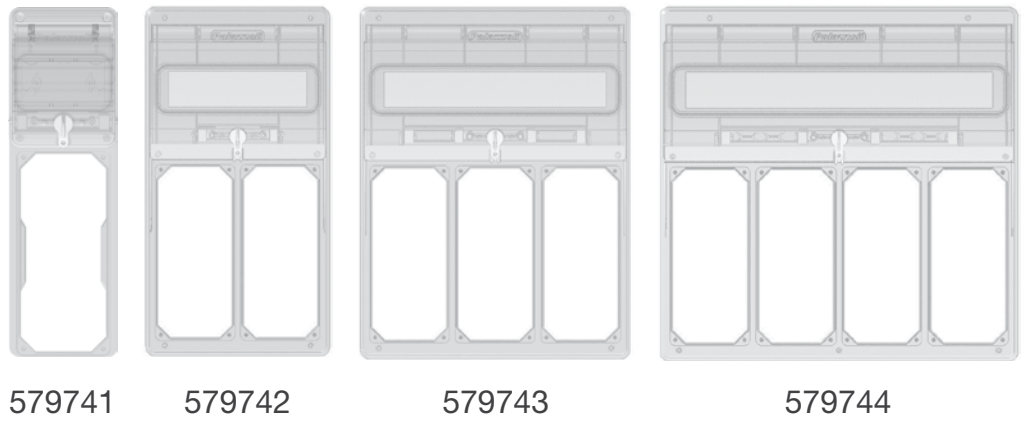
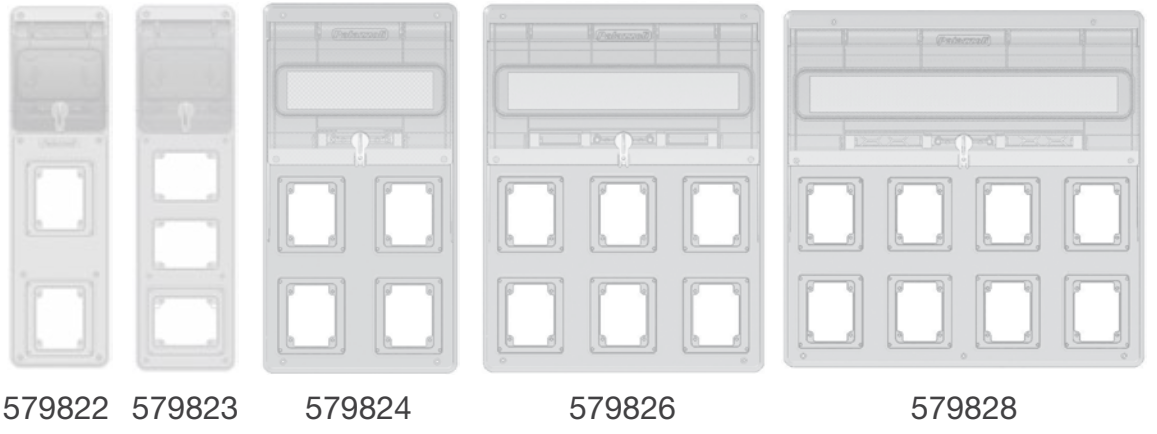
579860

Interlocked socket-outlet IEC60309

16-32A
IP44-66/67



63A
IP65






PANEL AND BOARD INSTALLATION

16-32A INDUSTRIAL SOCKET-OUTLETS IEC60309


| | | Current | Number of poles | Dimensions | 110V 50-60 Hz | 230V 50-60 Hz | 400V 50-60 Hz |
|--|-----|---------|-----------------|-------------------------|------------------|------------------|------------------|
|  IP44 | 16A | 3 | 65x38 | 488124 | 488126 | 488129 | |
| | | 4 | 65x38 | 488134 | 488139 | 488136 | |
| | | 5 | 88x100 | 488144 | 488149 | 488146 | |
| | 32A | 3 | 88x100 | 488224 | 488226 | 488229 | |
| | | 4 | 88x100 | 488234 | 488239 | 488236 | |
| | | 5 | 88x100 | 488244 | 488249 | 488246 | |
|  IP67 | 16A | 3 | 65x38 | 489124 | 489126 | 489129 | |
| | | 4 | 65x38 | 489134 | 489239 | 489136 | |
| | | 5 | 88x100 | 489144 | 489249 | 489146 | |
| | 32A | 3 | 88x100 | 489224 | 489226 | 489229 | |
| | | 4 | 88x100 | 489234 | 489239 | 489236 | |
| | | 5 | 88x100 | 489244 | 489249 | 489246 | |
| | | 4 | 88x100 | Refrigerated containers | | 489233 | |

Can be equipped with auxiliary contact (Page 15).

63A INDUSTRIAL SOCKET-OUTLETS IEC60309





| | | Current | Number of poles | Dimensions | 230V 50-60 Hz | 400V 50-60 Hz |
|---|-----|---------|-----------------|------------|------------------|------------------|
|  IP67 | 63A | 3 | 100x110 | 489326 | | |
| | | 4 | 100x110 | | 489336 | |
| | | 5 | 100x110 | | 489346 | |

SCHUKOS

| | | Current | Number of poles | Dimensions | Standard | 400V 50-60 Hz |
|---|-----|---------|-----------------|---------------------------------|----------|------------------|
|  IP54 | 16A | 2 | 50x50 | German | 579845 | |
| | | 2 | 50x50 | German with child protection | 579830 | |
| | | 2 | 50x50 | UK | 579831 | |
| | | 2 | 50x50 | French | 579832 | |





DOMESTIC AND COMMAND DEVICES

DOMESTIC SOCKET-OUTLETS

| | Current | Number of poles | Modules | Standard | 230V 50-60 Hz |
|--|---------|-----------------|---------|---------------------------------|------------------|
|  | 16A | 2 | 2 | German with child protection | 630051 |
|  | 16A | 2 | 2 | French/Polish | 630055 |
|  | 13A | 2 | 2 | British | 630056 |
|  | 16A | 2 | 2 | German UPS lines | 630053 |




Different standards are also available. Contact our Sales Office for more options.

DATA AND COMMAND DEVICES






| | Current | Number of poles | Modules | Standard | Code |
|---|---------|------------------|---------|---|--------|
|  | | 8UTB contacts | 1 | rj45 class 5e | 630081 |
|  | 16A | 1 or 2 | 1 | THE SAME UNIT CAN BE: single or double pole switch; single or double pole NO push-button; single pole two-way switch; single pole NC push-button. | 630030 |
|  | 16A | 2 | 1 | LINE Reversing switch | 630031 |
|  | | | 1 | Blank cap | 630090 |

FLANGES AND ENCLOSURES

FLANGES

| | Description | Dimensions | Code |
|---|--|------------|--------|
|  | Flange set for one recessed socket-outlet installation with 50x50 mm flange (schuko) | 65x38 | 579848 |
|  IP55 | Watertight cap mounted on flange for domestic and command devices | 65x38 | 579847 |
|  IP66 | Weatherproof cap mounted on flange for domestic and command devices | 65x38 | 579860 |



ENCLOSURES IP66

| | Dimensions | No. of installable socket-outlets | No. of modules EN50022 | Power dissipation allowed (W) | Code |
|---|------------|--|------------------------|-------------------------------|--------|
|  | 122x452 | 2 of 65x38 or 1 of 65x38 and 1 of 88x100 | 5 | 22 | 579822 |
|  | 122x452 | 3 of 63x38 or 2 of 65x38 and 1 of 88x100 | 5 | 22 | 579823 |
|  | 239x456 | 4 (1 blind cover included) | 10 | 40 | 579824 |
|  | 350x456 | 6 (2 blind covers included) | 16 | 56 | 579826 |
|  | 461x456 | 8 (2 blind covers included) | 22 | 70 | 579828 |

Enclosures are supplied with adjustable din rails, wire clamps, hinges, insulation caps, fixing screws.





INTERLOCK SOCKET 16-32A

16-32A INTERLOCKED SOCKET-OUTLETS IEC60309

| | | Current | Number of poles | 110V 50-60 Hz | 230V 50-60 Hz | 400V 50-60 Hz |
|--|-------------|---------|-------------------------|------------------|------------------|------------------|
|  | IP44 | 16A | 3 | 492124 | 492126 | 492129 |
| | | | 4 | 492134 | 492139 | 492136 |
| | | | 5 | 492144 | 492149 | 492146 |
| | 32A | 3 | 492224 | 492226 | 492229 | |
| | | 4 | 492234 | 492239 | 492236 | |
| | | 5 | 492244 | 492249 | 492246 | |
|  | IP67 | 16A | 3 | 491124 | 491126 | 491129 |
| | | | 4 | 491134 | 491139 | 491136 |
| | | | 5 | 491144 | 491149 | 491146 |
| | 32A | 3 | 491224 | 491226 | 491229 | |
| | | 4 | 491234 | 491239 | 491236 | |
| | | 5 | 491244 | 491249 | 491246 | |
| | | 4 | Refrigerated containers | | 491233 | |





Can be equipped with auxiliary contact (page 15).

FLANGES

| | Description | Code |
|---|--|--------|
|  | Flange for mounting two fixed industrial sockets and flanges for domestic socket. Can host 2 of 65x83 sockets or 1 of 65x83 plus 1 of 88x100 sockets | 579714 |
|  | Flange for mounting one 63A industrial socket | 579717 |
|  | Flange for mounting three 50x50 schuko sockets | 579716 |
|  | Closing flange for interlocked socket-outlet boards | 579713 |


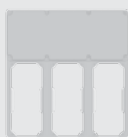
ENCLOSURES

HIGH CAPACITY ENCLOSURES IP66

| | Dimensions | No. of installable socket-outlets | No. of modules EN50022 | Power dissipation allowed (W) | Code |
|--|------------|-----------------------------------|------------------------|-------------------------------|--------|
|  | 122x395 | 1 | 5 | 22 | 579741 |
|  | 239x456 | 2 | 10 | 40 | 579742 |
|  | 350x456 | 3 (1 blind cover included) | 16 | 56 | 579743 |
|  | 461x456 | 4 (1 blind cover included) | 22 | 70 | 579744 |

Enclosures are supplied with adjustable din rails, wire clamps, hinges, insulation caps, fixing screws.

BLIND COMPACT ENCLOSURES IP66

| | Dimensions | No. of installable socket-outlets | Power dissipation allowed (W) | Code |
|---|------------|-----------------------------------|-------------------------------|--------|
|  | 108x260 | 1 | 22 | 579710 |
|  | 122x395 | 1 | 22 | 579721 |
|  | 250x395 | 2 | 40 | 579722 |
|  | 380x395 | 3 | 56 | 579723 |

WINDOWS FOR IP66 BLIND COMPACT ENCLOSURES

IP65




| Matching enclosure | No. of modules EN50022 | Code |
|--------------------|------------------------|--------|
| 579721 | 2 | 579451 |
| 579722 | 12 | 579452 |
| 579723 | 18 | 579453 |






INTERLOCKED SOCKETS 63A

63A INTERLOCKED SOCKET-OUTLETS IEC 60309

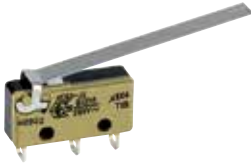
| | | Current | Number of poles | 110V 50-60 Hz | 230V 50-60 Hz | 400V 50-60 Hz |
|---|----|---------|-----------------|------------------|------------------|------------------|
|  IP65 | 63 | | 3 | 481324 | 481326 | 481329 |
| | | | 4 | 481334 | 481339 | 481336 |
| | | | 5 | 481344 | 481349 | 481346 |

ENCLOSURES

| | Dimensions | No. of installable socket-outlets | No. of modules EN50022 | Power dissipation allowed (W) | Code |
|---|------------|--------------------------------------|---------------------------|----------------------------------|--------|
|  IP55 | 115x290 | 1 | - | 22 | 579400 |
|  IP65 | 122x452 | 1 | 5 | 40 | 579631 |
|  IP65 | 122x452 | 1 | - | 56 | 579421 |

ACCESSORIES

Auxiliary plug inserted signal contact



Compatible with topTER sockets for 1 auxiliary contact
topTer interlocked sockets for 16/32A 2 contacts

579850

Closing flange with additional openings



Flange dimensions: 88x100mm

579842

DIN EN50022 Guide kit



for code 579742 and code 579824

579852

for code 579743 and code 579826

579853

for code 579744 and code 579828

579854

Equipotential bars



4 holes M5 for wire ends up to 25mmq

579013

10 holes M5 for wire ends up to 25mmq

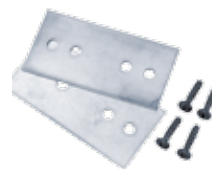
579014

Handles



579011

Stainless steel junction plates



579012

Support



570010

Din rail for domestic and data devices



MODULES

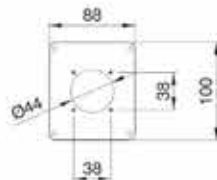
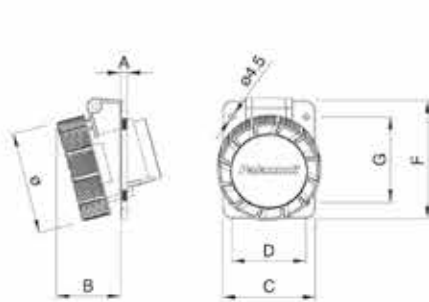
CODE

1

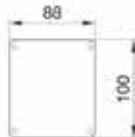
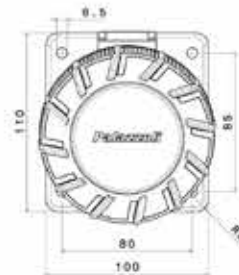
630021

2

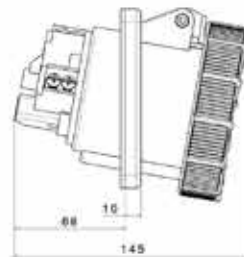
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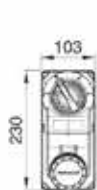
Cod. 579844



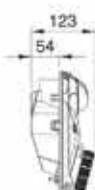
Cod. 579842



| Rated current (A) | No. poles | A (mm) | B (mm) | C (mm) | D (mm) | F (mm) | G (mm) | e (mm) |
|-------------------|-----------|--------|--------|--------|--------|--------|--------|--------|
| 16 | 2P++ | 5 | 45 | 55 | 52 | 83 | 80 | 72 |
| | 3P++ | 5 | 46 | 55 | 52 | 83 | 80 | 80 |
| | 3P+N++ | 7 | 47 | 68 | 77 | 100 | 85 | 88 |
| 32 | 2P++ | 7 | 54 | 68 | 77 | 100 | 85 | 93 |
| | 3P++ | 7 | 54 | 68 | 77 | 100 | 85 | 93 |
| | 3P+N++ | 7 | 55 | 88 | 77 | 100 | 85 | 100 |



2P++ 16A



3P++ 16A



3P+N++ 16A

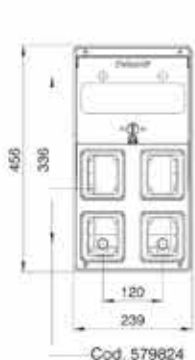


2P++ and 3P++ 32A

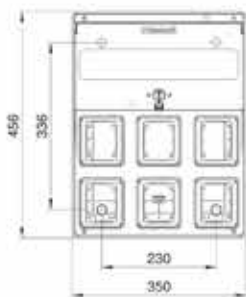


3P+N++ 32A

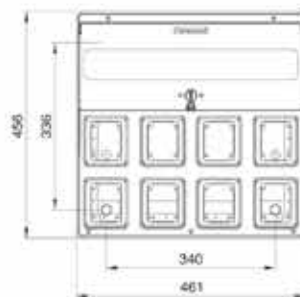
topTER series – fröccsenő víz ellen védett és vízmentes kombinációk és tartozékok IP 44 – IP66/67 ipari aljzatok szereléséhez



Cod. 579824



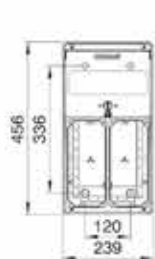
Cod. 579826



Cod. 579828



Cod. 579822
Cod. 579823



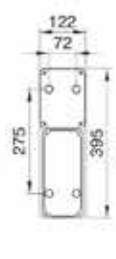
Cod. 579742



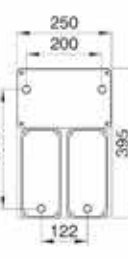
Cod. 579743



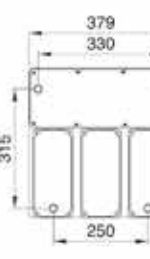
Cod. 579744



Cod. 579721



Cod. 579722



Cod. 579723



topTER series – fröccsenő víz ellen védett és vízmentes kombinációk és tartozékok IP 44 – IP66/67 reteszkapcsolt ipari aljzatok szereléséhez

MAKE YOUR OWN ASSEMBLY

**EASY COMPOSER
WWW.PALAZZOLI.COM**

**1 SELECT THE DISTRIBUTION BOARD
TYPE:
NON INTERLOCKED
OR INTERLOCKED**

2 SELECT THE ENCLOSURE SIZE

**3 SELECT SOCKET-OUTLETS
AND ACCESORIES**

**4 BILL OF MATERIAL
AUTOMATICALLY CREATED**

**5 FINISHED
PRODUCT**



topTER



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