

TAIS

Solutions from 16A to 125A



ELECTRIC SYSTEMS

Palazzoli

TAIS

The TAIS range allows the construction of 16A to 125A distribution boards with high resistance to heat, chemical corrosion, very low temperatures and atmospheric agents.



IK10



IP66/IP67/IP69



GWT 960° C V0



-40 °C - +60 °C

The products of the TAIS range are made in Palazzoli thermosetting GRP and ensure an average life 10 times longer than those made of thermoplastic material.

THE TAIS SYSTEM

is the **ONLY ONE** that allows the construction of 16A to 125A distribution boards.



Triple safety

Handle designed to allow triple padlocking prevents operation by unauthorised persons. The handle allows to identify the status of the switch even from distance.

Palazzoli

472620

2P+⊕ 16A 6h IP66/IP67
200-250V~ 50-60Hz

Via F. Palazzoli 31 - 25128

Non-combustible

Palazzoli Thermosetting GRP is flame-retardant, does not produce smoke nor emits halogens

Triple protection

The reinforced enclosure and the anti-aging gaskets provide a triple degree of protection:
IP66/IP67/IP69

TAIS

Remote control

The switch is designed to accommodate two auxiliary remote signalling contacts

Safety first
















The **CERAMIC** fuse holder base resists even the high temperatures generated in the case of circuit failures.

Reliable

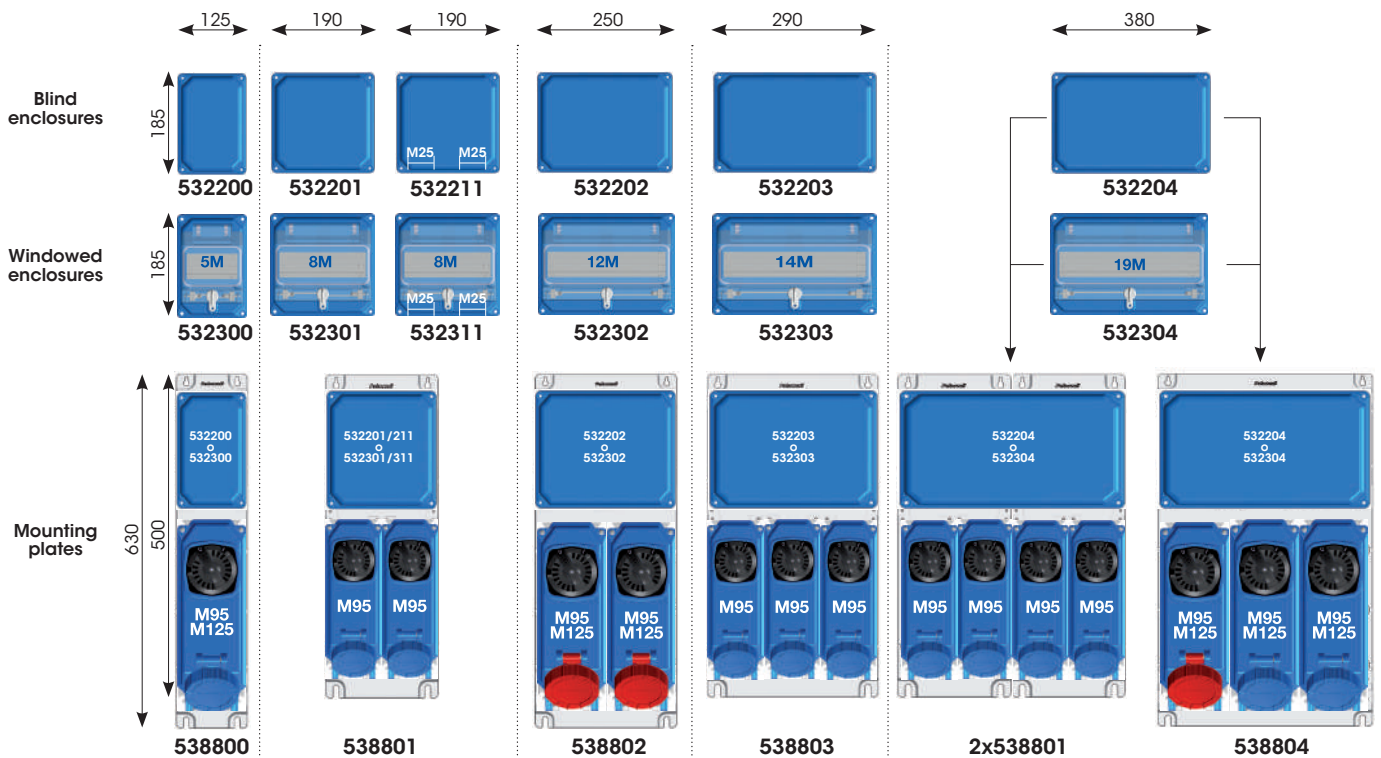
The interlocking bracket is made of **STEEL** and guarantees the safe insertion and removal of the plug over time

Guide to the preparation of 16A to 63A distribution boards



				Interlocked socket-outlets for wall mounting IP66/IP67/IP69					
				M95 M25	M125 M32	M95 M25	M125 M32	M95 M25	M125 M25
									
				Fuses	Fuses	Direct supply	Direct supply	150VA Transformer	250VA Transformer
I	V	No. of poles							
16A	230V		2P+⊕	472620		470126	467126		
	400V		3P+⊕	472730		470136	467136		
			3P+N+⊕	472830		470146	467146		
32A	230V		2P+⊕	468226	472621	469226	470226		
	400V		3P+⊕	468236	472731	469236	470236		
			3P+N+⊕		472831		470246		
63A	400V		3P+⊕		472732		470336		
			3P+N+⊕		472832		470346		
16A	24V		2P					469873	471873

Compositions



Guide to the preparation of 16A to 125A distribution boards

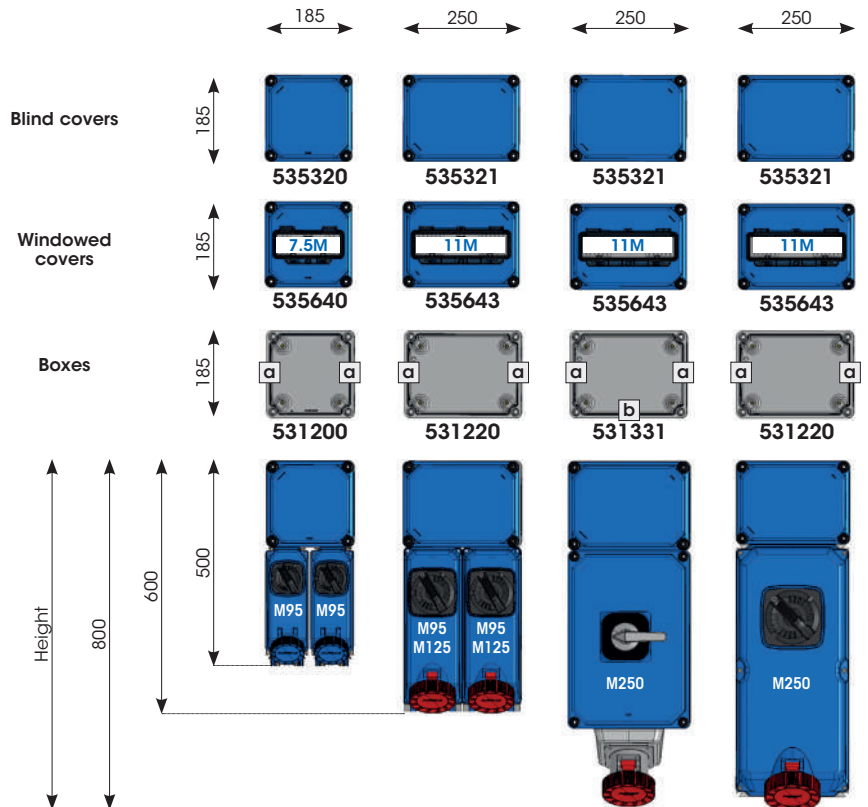
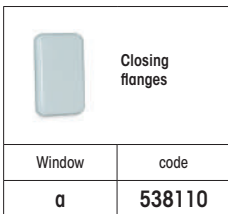
Threaded coupling fittings



* Use two M40 fittings to connect the 125 A socket-outlet to the box

		Interlocked socket-outlets for wall mounting IP66/IP67/IP69										
I	V	No. of poles	M95 M25 Fuses	M125 M32 Fuses	M250 blind Fuses	M95 M25 Direct supply	M125 M32 Direct supply	M250 blind Direct supply	M250 Window b Electrical interlock	M250 Window b With electrical interlock and RCD	M95 M25 150VA Transformer	M125 M25 250VA Transformer
16A	230V	2P+≍	472620			470126	467126					
		400V	3P+≍	472730			470136	467136				
			3P+N+≍	472830			470146	467146				
32A	230V	2P+≍	468226	472621		469226	470226					
		400V	3P+≍	468236	472731		469236	470236				
			3P+N+≍		472831			470246				
63A	400V	3P+≍		472732			470336		478336	476336		
		3P+N+≍		472832			470346		478346	476346		
125A	400V	3P+≍			482436			480436	478436	476436		
		3P+N+≍			482446			480446	478446	476446		
16A	24V	2P									469873	471873

Compositions



Instructions for making the mounting plate:

Base: sum of the widths of the boxes;
Height: choose from three sizes (800mm, 600mm, 500mm) depending on the type of socket-outlets used

the mounting plates are the responsibility of the customer



TAIS series

Increased-safety interlocked socket-outlets

The interlocked socket-outlets of the TAIS series, made in Palazzoli Thermosetting GRP, are suitable for environments with presence of oils, greases, chemical agents and high temperatures.

The system complies with IEC/EN 60309-1 IEC/EN 60309-2 and IEC/EN 60309-4 standards and includes versions from 16A to 125A, with fuses, direct outlets, with MCB, with DIN rail, with transformer and with electrical interlock. The socket-outlets feature IP66/IP67/IP69 ratings and can be combined in distribution boards using the appropriate blind or windowed boxes. Versions from 63A to 125A feature Easy Contact receptacles for maximum contact performance over time and easier connection and disconnection operations.

Ceramic fuse holder bases offer an intact and stable support up to 1,400 °C.

The interlock system is made with a steel bracket while the AC3-AC23 class isolator switch is designed to accommodate 2 auxiliary contacts for status signalling.

Rated operating current:

			16A	32A	63A	125A
Thermal current Ith		A	16	32	63	125
AC21A	415V	A	16	32	63	125
	500V					
	690V					
AC22A	415V	A	16	32	63	125
	500V					
	690V					
AC23A	230V	A	16	32	63	125
	400V					125
	500V					100
	690V					63
AC23A	230V	kW	4.5	8.5	20	30
	400V		7.5	15	34	55
	500V		8.5	17	44	55
	690V		15	31	50	55
AC3	230V	kW	4.5	8.5	18	30
	400V		7.5	15	31	55
	500V		8.5	17	40	55
	690V		15	31	40	55

Wiring data:

			16A	32A	63A	125A
Entry cable sections	mm ²		1 - 10		6 - 16	10 - 70
Tightening torque	Nm		2		4	

Conformity to standards	IEC/EN 60309-1 IEC/EN 60309-2 IEC/EN 60309-4 IEC/EN 60947-3
Material	Palazzoli Thermosetting GRP
Protection rating (IP as per IEC/EN 60529)	IP66/IP67/IP69* *IP69 guaranteed with X-CEE plugs
Colour	RAL5015 (cover) RAL7042 (base)
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	960°C
Flammability rating (according to UL94)	V0
Impact resistance (IK rating according to IEC/EN 62262)	IK10
Rated current	16A - 32A - 63A - 125A
Operating Voltage	24V - 690V
Operating frequency	50 - 60Hz
Insulation voltage	690V
Insulation class	II
Storage temperature	-50 °C - +80 °C
Operating temperature	-25 °C - +50 °C (16A-32A-63A) -40 °C - +60 °C (125A)

Protection ratings:

IP6X	protected against access to hazardous parts and fully protected against dust
IPX6	protected against powerful water jets
IPX7	protected against the effects of temporary immersion (1 m - 30 min)
IPX8	protected against the effects of continuous immersion (1 m - 60 min)
IPX9	protected against high pressure and high temperature jets



Resistance to chemical agents

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLOROETHYLENE	BENZENE
↑	↑	→	↑	↑	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	UV RADIATION
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

Legend: ↑ high resistance → partial resistance



Palazzoli
482446
3~N~D 125A 50 PHE PHEP
32202406000010000000
100% RECYCLED
CE

Socket-outlets TAIS from 16A to 63A

MODULE 95



Interlocked socket-outlets in thermosetting material with **fuse-holder base** for wall mounting
50-60Hz IP66/IP67/IP69

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	472610	1
entry M25	230V	Blue	2P+⊕	6	472620	1
	400V	Red	3P+⊕	6	472730	1
fuses 10.3x38	400V	Red	3P+N+⊕	6	472830	1
	32	110V	Yellow	2P+⊕	4	468224
entry M25	230V	Blue	2P+⊕	6	468226	1
	400V	Red	3P+⊕	6	468236	1
fuses 10.3x38	380-440V	Red	3P+⊕	3	468233	1

MODULE 125



Interlocked socket-outlets in thermosetting material with **fuse-holder base** for wall mounting
50-60Hz IP66/IP67/IP69



Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
32	110V	Yellow	2P+⊕	4	472611	1
entry M32	230V	Blue	2P+⊕	6	472621	1
	400V	Red	3P+⊕	6	472731	1
fuses 14x51	400V	Red	3P+N+⊕	6	472831	1
	380-440V	Red	3P+⊕	3	472771	1
63	110V	Yellow	2P+⊕	4	472612	1
entry M32	230V	Blue	2P+⊕	6	472622	1
	400V	Red	3P+⊕	6	472732	1
fuses 22x58	400V	Red	3P+N+⊕	6	472832	1

MODULE 95

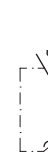


Socket-outlets in thermosetting material with **transformer** for wall mounting
50-60Hz IP67

Rated current (A)	Rated voltage (V)	Poles	Power (VA)	Palazzoli code	Pack Qty
16	230/24V	2P	150	469873	1
entry M25					

Features: continuous class II duty safety transformer enabled by the plug by means of microswitch.

MODULE 95



Interlocked socket-outlets in thermosetting material with **direct power supply** for wall mounting
50-60Hz IP66/IP67/IP69

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
16	230V	Blue	2P+⊕	6	470126	1
entry M25	400V	Red	3P+⊕	6	470136	1
	400V	Red	3P+N+⊕	6	470146	1
32	230V	Blue	2P+⊕	6	469226	1
	400V	Red	3P+⊕	6	469236	1
entry M25	380-440V	Red	3P+⊕	3	469233	1

MODULE 125



Interlocked socket-outlets in thermosetting material with **direct power supply** for wall mounting
50-60Hz IP66/IP67/IP69



Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	467124	1
	230V	Blue	2P+⊕	6	467126	1
entry M25	400V	Red	3P+⊕	6	467136	1
	400V	Red	3P+N+⊕	6	467146	1
32	230V	Blue	2P+⊕	6	470226	1
	400V	Red	3P+⊕	6	470236	1
entry M32	400V	Red	3P+N+⊕	6	470246	1
63	380/440V	Red	3P+⊕	3	470233	1
	230V	Blue	2P+⊕	6	470326	1
entry M32	400V	Red	3P+⊕	6	470336	1
	400V	Red	3P+N+⊕	6	470346	1

MODULE 125



Socket-outlets in thermosetting material with **transformer** for wall mounting
50-60Hz IP67

Rated current (A)	Rated voltage (V)	Poles	Power (VA)	Palazzoli code	Pack Qty
16	230/24V	2P	250	471873	1
entry M25					

Features: continuous class II duty safety transformer enabled by the plug by means of microswitch.

Accessories for 16A to 63A distribution boards



Watertight quick-mounting enclosures with blind cover IP66/IP67

Outer dimensions (mm)	Holes	Max. number of installable socket-outlets		Palazzoli code	Pack Qty
		Mod. 95	Mod. 125		
125x185x125	-	1	1	532200	1
190x185x125	-	2	-	532201	1
190x185x125	2xM25	2	-	532211	1
250x185x125	-	2	2	532202	1
290x185x125	-	3	-	532203	1
380x185x125	-	4	3	532204	1

Equipment included: code 532211 with 2 fittings M25 for rapid coupling.
Features: enclosures supplied with drilling template.



Watertight quick-mounting enclosures with transparent window IP66/IP67

Outer dimensions (mm)	Holes	Max. number of installable socket-outlets		No. of DIN modules	Palazzoli code	Pack Qty
		Mod. 95	Mod. 125			
125x185x150	-	1	1	5	532300	1
190x185x150	-	2	-	8	532301	1
190x185x150	2xM25	2	-	8	532311	1
250x185x150	-	2	2	12	532302	1
290x185x150	-	3	-	14	532303	1
380x185x150	-	4	3	19	532304	1

Equipment included: code 532311 with 2 fittings M25 for rapid coupling.
Features: enclosures supplied with drilling template. Padlockable modular door.



Quick-mounting fittings for coupling TAIS socket-outlets to boxes IP66/IP67

Hole type	Mounting hole (mm)	Max diameter for cable passage (mm)	Palazzoli code	Pack Qty
M25	25.5	16	538425	1
M32	32.5	20	538432	1



Mounting plate with guided system

Outer dimensions (mm)	Max. number of installable socket-outlets		Palazzoli code	Pack Qty
	Mod. 95	Mod. 125		
125x630	1	1	538800	1
190x500	2	-	538801	1
250x630	2	2	538802	1
290x500	3	-	538803	1
380x630	3	3	538804	1



Coupling fitting for mounting plates

For mounting plate code	Palazzoli code	Pack Qty
538800, 538801, 538802, 538803, 538804	538791	50

Uses: this snap-on part is fixed into the seats located on the mounting plates for interlocked socket-outlets.

EASY COMPOSER



WEB SOFTWARE



palazzoli.com

Software for the design and budgeting of distribution boards in thermosetting material

Socket-outlets TAIS 125A

MODULE 250



Interlocked socket-outlets in thermosetting material with **fuse-holder base** for wall mounting
50-60Hz IP66/IP67/IP69



Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
125 entry blind fuses NH00	110V	●	3P+⊕	4	482434	1
	110V	●	3P+N+⊕	4	482444	1
	230V	●	2P+⊕	6	482426	1
	230V	●	3P+⊕	9	482439	1
	230V	●	3P+N+⊕	9	482449	1
	400V	●	3P+⊕	6	482436	1
	400V	●	3P+N+⊕	6	482446	1
	500V	●	3P+⊕	7	482437	1
	500V	●	3P+N+⊕	7	482447	1
	690V	●	3P+⊕	5	482435	1
	690V	●	3P+N+⊕	5	482445	1

MODULE 250



Interlocked socket-outlets in thermosetting material with **direct power supply** for wall mounting
50-60Hz IP66/IP67/IP69



Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
125 entry blind	110V	●	3P+⊕	4	480434	1
	110V	●	3P+N+⊕	4	480444	1
	230V	●	2P+⊕	6	480426	1
	230V	●	3P+⊕	9	480439	1
	230V	●	3P+N+⊕	9	480449	1
	400V	●	3P+⊕	6	480436	1
	400V	●	3P+N+⊕	6	480446	1
	500V	●	3P+⊕	7	480437	1
	500V	●	3P+N+⊕	7	480447	1
	690V	●	3P+⊕	5	480435	1
	690V	●	3P+N+⊕	5	480445	1

MODULE 250



Interlocked socket-outlets in thermosetting material with **MCB** for wall mounting
50-60Hz IP66/IP67/IP69



Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
125 entry blind switch 18kA*	110V	●	3P+⊕	4	484434	1
	110V	●	3P+N+⊕	4	484444	1
	230V	●	3P+⊕	9	484439	1
	230V	●	3P+N+⊕	9	484449	1
	400V	●	3P+⊕	6	484436	1
	400V	●	3P+N+⊕	6	484446	1
	500V	●	3P+⊕	7	484437	1
	500V	●	3P+N+⊕	7	484447	1

* Notes: breaking capacity for 400V socket-outlets.
For socket-outlets from: 110V and 230V - 25kA; 500V - 8kA.

MODULE 250



Interlocked socket-outlets in thermosetting material with **DIN guide** for wall mounting
50-60Hz IP66/IP67/IP69



Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
125 entry blind 7.5 modules	400V	●	3P+⊕	6	483436	1
	400V	●	3P+N+⊕	6	483446	1

EASY CONTACT 63A - 125A SOCKET-OUTLETS



The multi-lamellar crown in a silver-plated copper superalloy ensures:

- wider pin-plug contact surface
- easy removal of plugs from socket-outlets
- perfect cleaning of the pin
- a solid and long-lasting electrical contact

Note: The 125A socket-outlets are supplied with centring points to simplify drilling for cable entry or coupling with the box.

Accessories for distribution boards from 16A to 125A

MODULE 250



Socket-outlets in thermosetting material with **electrical interlock and MCB** for wall mounting 50-60Hz IP67



Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
63 window b	400V	●	3P+≍	6	478336	1
	400V	●	3P+N+≍	6	478346	1
	500V	●	3P+≍	7	478337	1
125 window b	500V	●	3P+N+≍	7	478347	1
	400V	●	3P+≍	6	478436	1
	400V	●	3P+N+≍	6	478446	1
	500V	●	3P+≍	7	478437	1
	500V	●	3P+N+≍	7	478447	1

Features: complete with pilot contact used for the electrical interlock. Sealable screws.

MODULE 250



Socket-outlets in thermosetting material with **electrical interlock, MCB and RCD**, for wall mounting 50-60Hz IP67



Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
63 window b	400V	●	3P+≍	6	476336	1
	400V	●	3P+N+≍	6	476346	1
	500V	●	3P+≍	7	476337	1
125 window b	500V	●	3P+N+≍	7	476347	1
	400V	●	3P+≍	6	476436	1
	400V	●	3P+N+≍	6	476446	1
	500V	●	3P+≍	7	476437	1
	500V	●	3P+N+≍	7	476447	1

Features: complete with pilot contact used for the electrical interlock. Sealable screws.

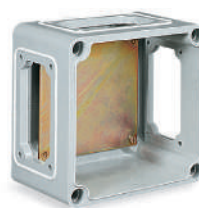
MODULE 250



Socket-outlets in thermosetting material with **transformer** for wall mounting 50-60Hz IP67

Rated current (A)	Rated voltage (V)	Poles	Power (VA)	Palazzoli code	Pack Qty
32 window b	230/48V~	2P	720	471819	1
	400/48V~	2P	720	471839	1

Features: class II continuous duty safety transformer activated by a plug microswitch. Sealable screws.



Boxes for the preparation of watertight enclosures in thermosetting material IP67

Outer dimensions (mm)	Type windows	Module of installable socket-outlets	Palazzoli code	Pack Qty
185x185x115	a → □ ← a	2x95	531200	1
250x185x115	a → □ ← a	2x95/2x125 1x250	531220	1
250x185x115	a → □ ← a b	1x250 window b	531331	1

Included: back plates. Enclosures with drilling templates.



Blind covers for the preparation of watertight enclosures in thermosetting material IP67

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
185x185	25	535320	1
250x185	25	535321	1



Covers with transparent window according to EN50022 and accessories for the preparation of watertight enclosures IP67

For boxes with dimensions (mm)	No. of modules EN50022	Cover height (mm)	Lid height (mm)	Palazzoli code	Pack Qty
185x185	7.5	25	30	535640	1
250x185	11	25	30	535643	1



Flat blind flanges for the preparation of watertight enclosures IP67

Type	Window dimensions (mm)	Flange height (mm)	Palazzoli code	Pack Qty
a	110x60	15	538110	2
b	175x60	15	538210	2

Common technical accessories



Cable glands in insulating material, with metric pitch with long threading IP68

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M25x1.5	25.5	9-18	15	581125	25
M32x1.5	32.5	14-25	15	581132	20
M40x1.5	40.5	18-32	15	581140	10
M50x1.5	50.5	24-38.5	15	581150	5
M63x1.5	63.5	35-48	15	581163	5

Uses: for cable/conduit entry into boxes with very thick walls.



Locknuts in insulating material with metric pitch

Threading	Palazzoli code	Pack Qty
M25x1.5	581225	50
M32x1.5	581232	50
M40x1.5	581240	20
M50x1.5	581250	10
M63x1.5	581263	5



Quick-mounting threaded fittings for coupling TAIS socket-outlets to boxes IP66/IP67

Hole type	Mounting hole (mm)	Max diameter for cable passage (mm)	Palazzoli code	Pack Qty
M25	25.5	18	538421	1
M32	32.5	25	538429	1
M40	40.5	34	538436	1



Auxiliary contacts for 16A to 125A TAIS socket-outlet switches

Rated current (A)	Switch type	Contact type	Palazzoli code	Pack Qty
10	16A-125A	1 NC (Late break)	270326	1
		1 NC (Early Make)	270327	1
		1 NC	270330	1
		1 NO	270331	1
		1 NO + 1 NC	270332	1

Features: code 270332 consisting of 2 contacts.



Terminal blocks with saddle terminals 500V

Dimensions (mm)	No. of poles for section	Palazzoli code	Pack Qty
70x101	4x16 mm ²	159040	10
78x101	3x25 mm ²	159032	1
92x128	4x25 mm ²	159042	5
86x128	3x35 mm ²	159033	5
102x150	4x35 mm ²	159043	1
100x150	3x70 mm ²	159034	1



Cup shaped milling cutters in steel for quick drill connection, with tungsten carbide gear teeth, specific for thermosetting material

Hole type	Palazzoli code	Pack Qty
M20 / M25 / M32 / M40	538410	1



Straight mobile plugs 50-60Hz IP66/IP67/IP68/IP69

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	760124	1
	230V	Blue	2P+⊕	6	760126	10
	400V	Red	3P+⊕	6	760136	10
	400V	Red	3P+N+⊕	6	760146	10
32	110V	Yellow	2P+⊕	4	760224	1
	230V	Blue	2P+⊕	6	760226	1
	400V	Red	3P+⊕	6	760236	5
	400V	Red	3P+N+⊕	6	760246	5
63	380-440V	Red	3P+⊕	3	760233	1
	400V	Red	3P+⊕	6	760336	1
	400V	Red	3P+N+⊕	6	760346	1
	110V	Yellow	3P+⊕	4	760434	1
125	110V	Yellow	3P+N+⊕	4	760444	1
	230V	Blue	3P+⊕	9	760439	1
	230V	Blue	3P+N+⊕	9	760449	1
	400V	Red	3P+⊕	6	760436	1
	400V	Red	3P+N+⊕	6	760446	1
	500V	Black	3P+⊕	7	760437	1
500V	Black	3P+N+⊕	7	760447	1	



Straight mobile plugs for extra-low voltage 50-60Hz IP67

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref. (h)	Palazzoli code	Pack Qty
16	24V	Purple	2P	-	477003	1
32	48V	White	2P	12	477106	1

TAIS install it and forget about it



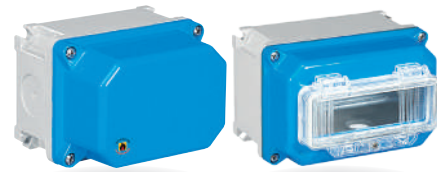
Pre-wired distribution boards and ASC



Interlocked mobile and fixed socket-outlets



Modular boxes for socket-outlets and plugs



Enclosures and Control Units



Distribution and automation boards



Control devices

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