



THORNE &
DERRICK
INTERNATIONAL

Thorne & Derrick

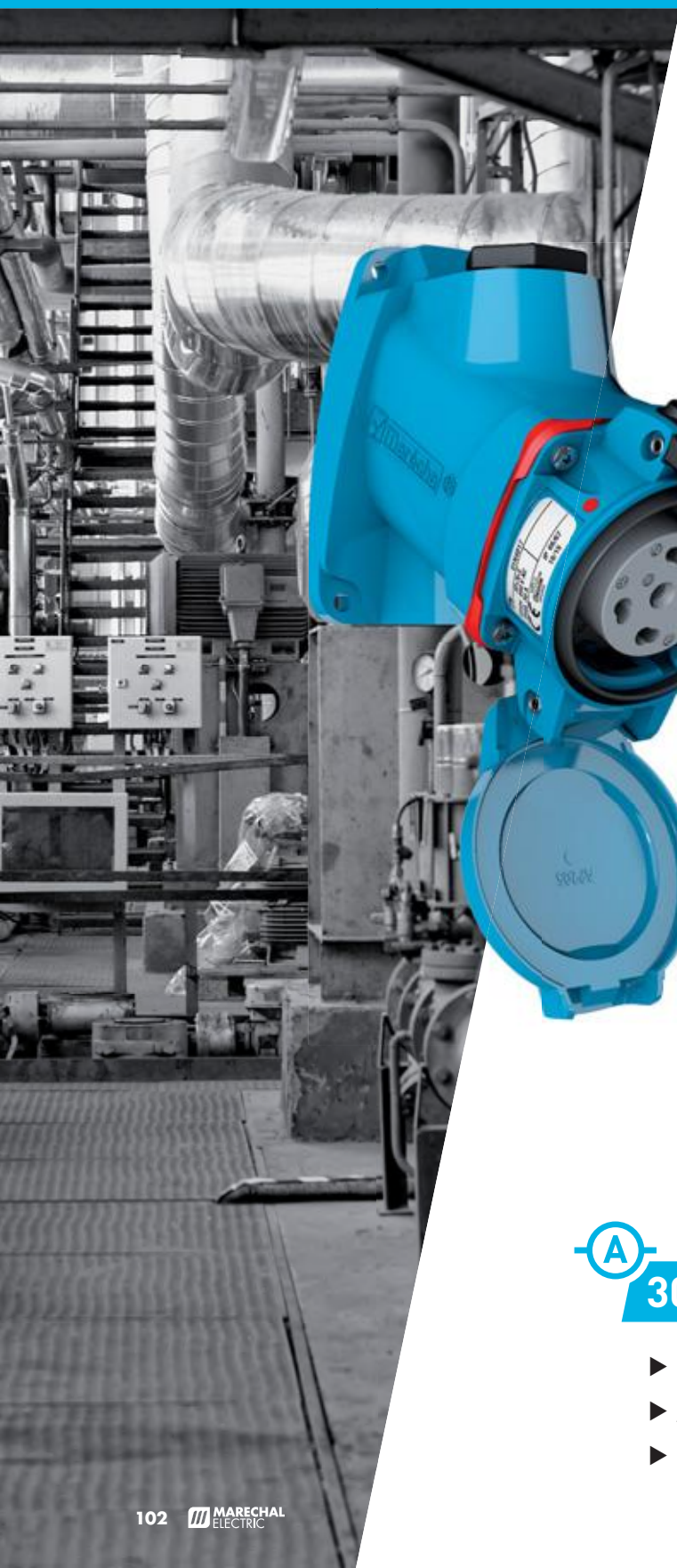
+44 (0) 191 410 4292

www.heatingandprocess.com

PN



**COMPACT
PLUGS & SOCKETS**



30 A

- ▶ Standard IP66/IP67
- ▶ All industries
- ▶ Chemical resistant GRP UL94 Or metal casing

TECHNICAL FEATURES

	PN	PNHT
Rated current (In)	30 A	30 A
U _{max}	500 V	500 V
Keying positions	16	4
Ambient temperature	-40 °C to +60 °C	240 °C
IP protection	IP66/IP67	IP44

OPERATION



To connect the plug: align the red dots on the plug and the socket-outlet, then turn the plug anticlockwise to connect.



To remove the plug: turn the plug clockwise and withdraw.



PN plugs and socket-outlets comply with:

- IEC/EN 60309-1 & IEC/EN 60309-4 European and International standards (plugs and socket-outlets for industrial purposes),
- The European Low Voltage Directive 2014/35/EU, conformity with the CE marking,
- The European 'Machine Directive' 2006/42/CE regarding equipment isolation,
- The French NF C 15-100 standard,
- The French decree dated 20 December 2011 pertaining to the wiring and operating conditions of movable electrical apparatuses,
- The decrees relating to workers' protection in Belgium, Spain and Italy,
- The UL 1682 (USA) and CSA C22.2 N° 182.1-07 (Canada) standards for plugs and socket-outlets.

Also certified by VERITAS LCIE, UL, TR CU (GOST) and cCSAus (French, American, Russian and Canadian inspection laboratories).



WALL MOUNTING SOCKET PN



Wall box poly 30°
511B3M20



Socket-outlet
01N4017

PLUG PN



Straight handle poly
511P0D18



Inlet
01N8017

MAIN FEATURES

Rated current (with wiring according to standard)	30 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	500 V	Flexible wiring (min-max)	1-6 mm ²
IP protection lid closed	IP66/IP67	Stranded wiring (min-max)	1,5-10 mm ²
IP protection plug connected	IP66/IP67	Other wiring	on request
Shock resistance (poly casing)	IK08	Keying positions	16
Shock resistance (metal casing)	IK09		



GRP devices are not compatible with metal devices.

Dual-voltage socket-outlet (see p. 7)



SOCKET-OUTLET female PN (30 A)



INLET male PN (30 A)



20-24 V AC	2P	01N408A	01N808A
220-250 V AC	1P+N+E	01N4015	01N8015
380-440 V AC	3P+E	01N4013	01N8013
220-250 V AC 380-440 V AC	3P+N+E	01N4017	01N8017
480-500 V AC	3P+E	01N4093	01N8093
480-500 V AC	3P+N+E	01N4097	01N8097

► Other voltages, frequencies and contact configurations are available (see page 10).



For a black colour GRP housing replace the second reference character 1 with 5.



SOCKET-OUTLET female PN (30 A)



INLET male PN (30 A)



20-24 V AC	2P	09N408A	09N808A
220-250 V AC	1P+N+E	09N4015	09N8015
380-440 V AC	3P+E	09N4013	09N8013
220-250 V AC 380-440 V AC	3P+N+E	09N4017	09N8017
480-500 V AC	3P+E	09N4093	09N8093
480-500 V AC	3P+N+E	09N4097	09N8097

► Other voltages, frequencies and contact configurations are available (see page 10).



WALL MOUNTING SOCKET PNHT



Wall box
571B0M20185



Socket-outlet
0924017185



PLUG PNHT



Straight handle
571P020M185



Inlet
0928017185

► 180° opening lid with automatic closing

MAIN FEATURES

Max. operating temperature steady	240 °C	Protection	IP44
Rated current I _n	30 A	Robustness	IK09
U _{max}	500 V	Flexible wiring (min-max)	1-6 mm ²
Maximum no. of contacts	3P+N+E	Stranded wiring (min-max)	1,5-10 mm ²



SOCKET- OUTLET female PNHT (30 A)



INLET male PNHT (30 A)



20-24 V AC	2P	092408A185	092808A185
220-250 V AC	1P+N+E	0924015185	0928015185
380-440 V AC	3P+E	0924013185	0928013185
220-250 V AC 380-440 V AC	3P+N+E	0924017185	0928017185



OPTIONS (DETAILS ON PAGE 216)

PN

PNC

INDUSTRIAL-DOMESTIC ADAPTERS



Industrial inlet MARECHAL® 1P+N+E domestic socket-outlet 10/16 A 230 V 10 A and 16 A.

01N8015D11*

NA



* All these plug adapters are available to foreign standards : replace D11 by D40 for UK, D30 for Germany/NL/Lux, D06 for Italy.

LOCKING WITH PADLOCK (Ø 4 mm) WITHOUT SHAFT (PADLOCKS NOT SUPPLIED)



Ref. + 843

NA

SCREW LOCKING IMPRINT BTR 2,5



Socket-outlet ref. + 22

NA

REVERSED INTERIOR AND CONTACTS



The connector is supplied with a Rubber inlet cap.

Ref. conn. + 001
Socket-outlet ref. + 001

IP55 SELF-CLOSING LID (SOCKET-OUTLET)



Replace N by S
Eg: 400 V 3P+N+E poly = 01S4017

INLET CAP



Socket-outlet cap
Plug cap

01EA125
01EA126



Inlet cap

012A126

ADAPTER PLATE FOR PN ACCESSORIES



251A457-E

180° OPENING LID

Metal socket ref. + 10

NA

SELF CLOSING/SELF RETURNING LID (ACCORDING TO MODEL)



Socket-outlet ref. +R

NA

180° OPENING & SELF-RETURNING LID

Socket-outlet ref. + 18

NA

ELECTROMAGNETIC COMPATIBILITY (EMC) (SEE DETAIL PAGE 223)

Metal socket ref. +EMC



ACCESSORIES

(SEE PAGE 238 TO CROSS REFERENCE WITH OLDER PART NUMBERS)

BOXES			PN Size 1	PNHT Size 1	
POLY BOX					
	0°	M20	511B0M20		
	0°	M25	511B0M25		
	30°	M20	511B3M20		
	30°	M25	511B3M25		
METAL BOX (+ EARTHING WIRE)					
	0°	M20	591B0M20		Ref. +EMC
	0°	M25	591B0M25		Ref. +EMC
	0°	M20		571B0M20185	
	0°	M25		571B0M25185	
POLY BOX + POLY SLEEVE					
	70°	Without Hole	511C7000		
	70°	ø 20	511C7M20		
	70°	ø 25	511C7M25		
	70°	ø 32	511C7M32		
Extra earth bar ref: 51AA089					
METAL BOX (+ EARTHING WIRE) + POLY SLEEVE					
	30°	M20	511C3M20		
METAL BOXES WITH METAL SLEEVE (+ EARTHING WIRE)					
	45°	M20	591C4M20		Ref. +EMC
	45°	M25	591C4M25		Ref. +EMC
	45°	M32	591C4M32		Ref. +EMC
	45°	M20		571C4M20185	
	45°	M25		571C4M25185	
	45°	M32		571C4M32185	

TPM ELECTRICAL INLET WITH FLAP

PN
size 1

BLACK POLY HOUSING (IP55) WITH LID FOR SOCKET



Dimensions (LxHxD)

121 x 136 x 60

551B0065 Size 1 case without indicator light
551B0165 Size 1 case with 1+1 indicator lights
551B0265 Size 1 case with 1+2 indicator lights



ACCESSORIES

(SEE PAGE 238 TO CROSS REFERENCE WITH OLDER PART NUMBERS)

SLEEVE



PN
Size 1

PNHT
Size 1



POLY SLEEVE



30°

511M3



30°

551M3



70°

511M7



70°

551M7

METAL SLEEVE



0°

591M0

Ref. +EMC



30°

591M3



45°

591M4

Ref. +EMC



45°

571M4185



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HANDLE



**PN
Size 1**

**PNHT
Size 1**



POLY HANDLE WITH GLAND



* Short

9-18 mm

511P0D18*

5-21 mm

511P0D21



* Short

9-18 mm

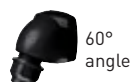
551P0D18



60°
angle

9-18 mm

511P6D18*



60°
angle

9-18 mm

551P6D18

POLY HANDLE WITH POLY CABLE GLAND (FOR A BLACK COLOUR HANDLE REPLACE THE SECOND REFERENCE CHARACTER 1 WITH 5)



5-12 mm

511P020P

9-18 mm

511P025P

14-25 mm

511P032P

METAL HANDLE WITH METAL GLAND (+ EARTHING WIRE)



7-13 mm

591P020M

8-16 mm

591P025M

Ref. +EMC (9-16 mm)

16-24 mm

591P032M

Ref. +EMC (11-21 mm)



8-13 mm

571P020M185

12-20 mm

571P025M185

18-28 mm

571P032M185

POLY HANDLE WITHOUT CABLE GLAND (METRIC THREAD ENTRY, FOR A BLACK COLOUR HANDLE REPLACE THE SECOND REFERENCE CHARACTER 1 WITH 5)



M20

511P0M20

M25

511P0M25

M32

511P0M32

METAL HANDLE WITHOUT CABLE GLAND (METRIC THREAD ENTRY)



M20

591P0M20

M25

591P0M25

Ref. +EMC

M32

591P0M32

Ref. +EMC



M25

571P0M25185

M32

571P0M32185



SPARE PARTS



PLUG		PN poly	PN METAL
1	Plug interior	01NA010	09NA110
2	Locking ring	611A583	09NA583
3	Plug contact (P or N)	01NA011	01NA011
4	Color-coded voltage gasket	611AV26	611AV26
		611AB26	611AB26
		611AR26	611AR26
		611AN26	611AN26
5	Plug casing	01NA501	09NA501



Remember to order
the special removal key



Yellow disassembly key
For poly casing
31-A500-1



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SOCKET		PN	PN METAL
1	Socket Interior 3P+E	01NA020C3	09NA220C3
1	Socket Interior 1P+N+E	01NA020C5	09NA220C5
1	Socket Interior 3P+N+E	01NA020C7	09NA220C7
2	Locking ring	611A583	09NA583
3	Socket contact	01NA021	01NA021
4	Color-coded voltage gasket	611AV26	611AV26
		611AB26	611AB26
		611AR26	611AR26
		611AN26	611AN26
5	Socket Lid Gasket	01NA524*	09NA524*
6	Casing gasket	01NA074	01NA074

*Add suffix cover option (opening 180 °, self-returning, etc.).



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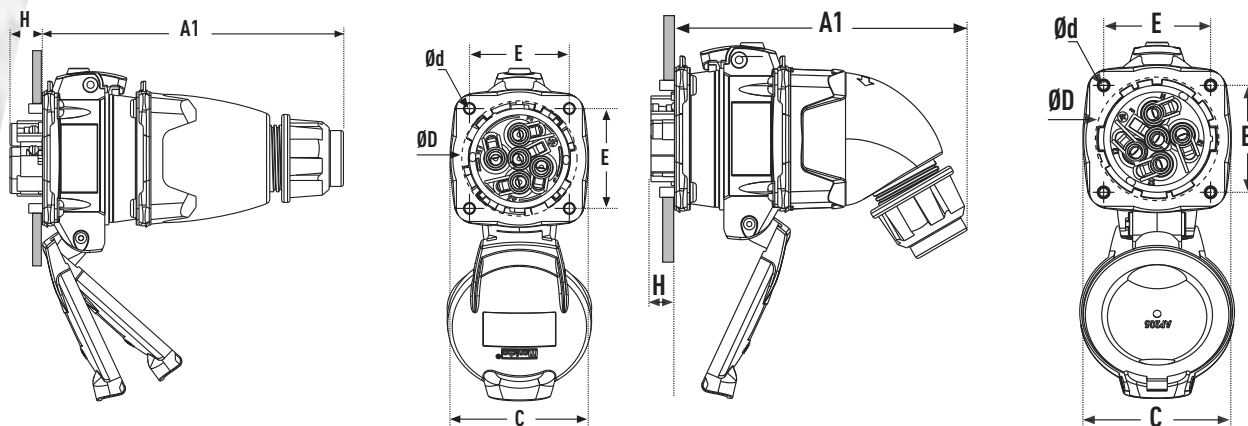
DIMENSIONS



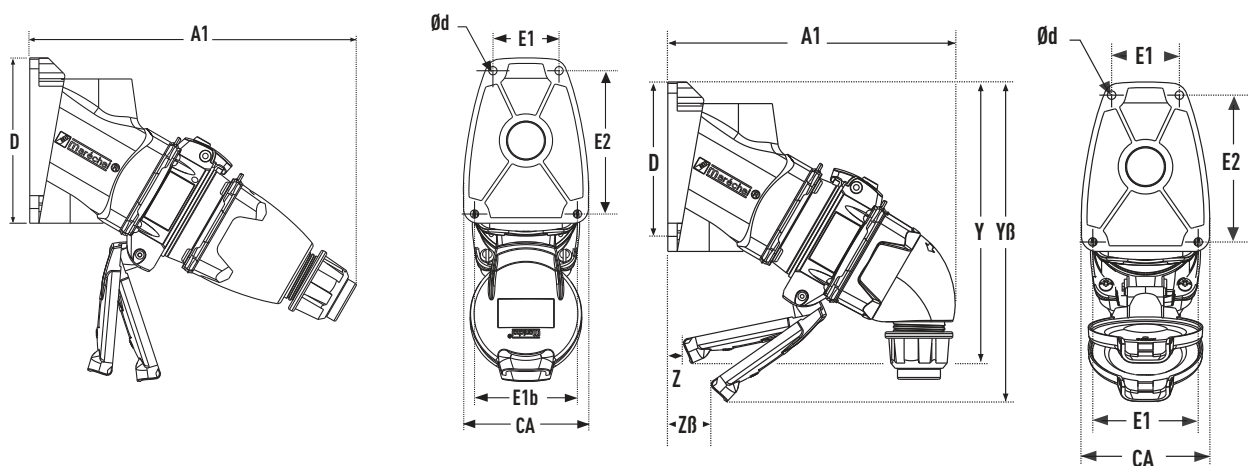
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	A1	C	E	H	Ød*
Straight handle	127	58	42	14	4,5
Angled handle	117	58	42	14	4,5



	A1	B1	CA	D	E1	E1b	E2	Ød*
Straight handle	178	143	68	90	36	56	78	4,5
Angled handle	153	159	68	90	36	56	78	4,5

*Ød : maximum drilling diameter.

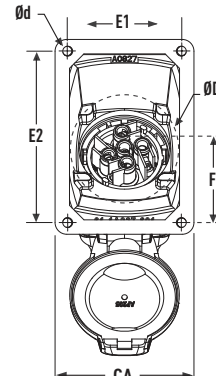
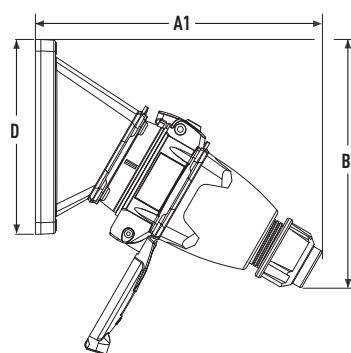
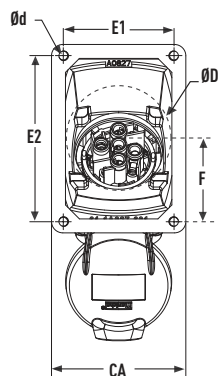
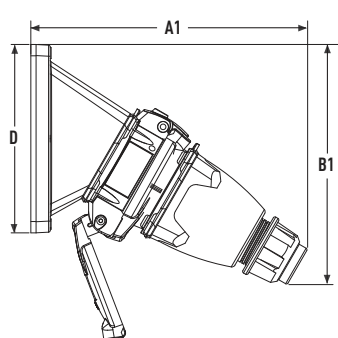


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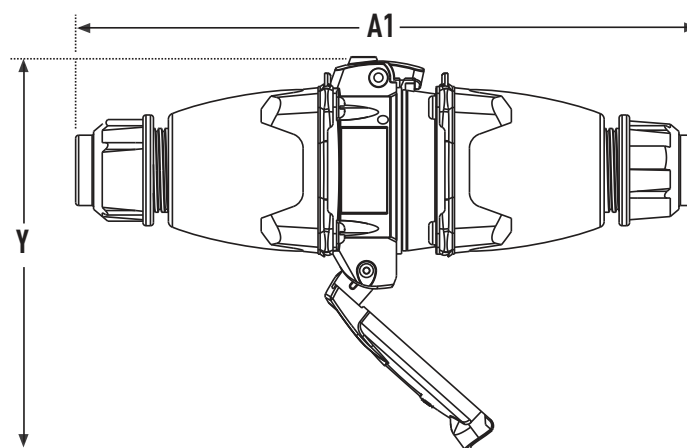
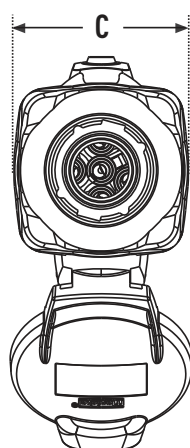
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PN

PN



	A1	B1	CA	D	E1	E2	Ød*
Straight handle	159	138	77	108	63	95	5
Angled handle	134	153	77	108	63	95	5



	A1	C	Y
Straight handle	208	58	132

*Ød : maximum drilling diameter.