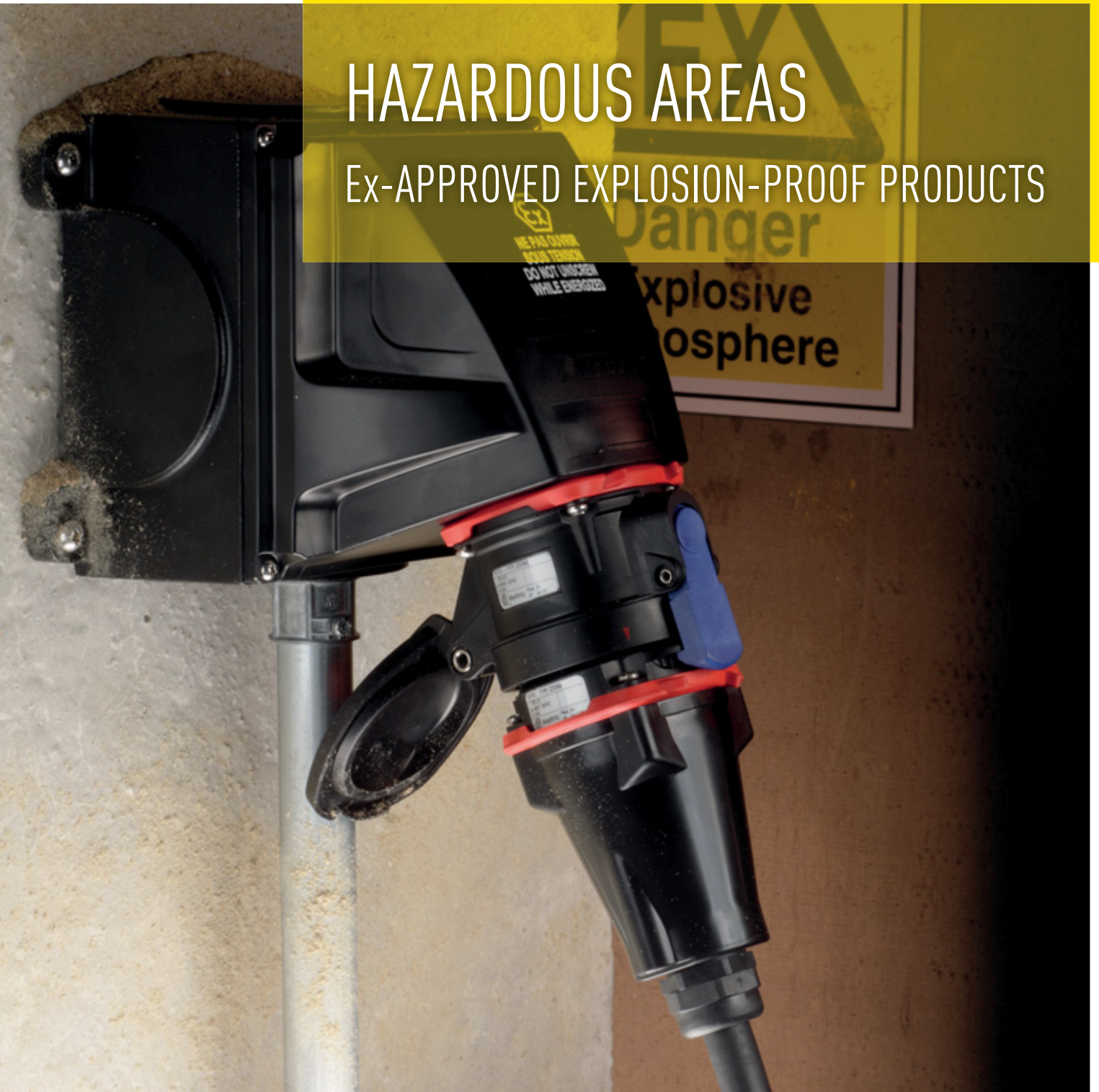


HAZARDOUS AREAS

Ex-APPROVED EXPLOSION-PROOF PRODUCTS



PLUGS & SOCKETS, DECONTACTOR™, CONNECTORS,
BOXES, LIGHTING, PANELS & CONTROL STATIONS

NEED A SAFE ELECTRICAL CONNECTION FOR Ex ATMOSPHERES?

MARECHAL ELECTRIC's comprehensive, ATEX approved range provides solutions for all your applications.

Products that will be used in hazardous areas need to meet demanding standards and regulations. To manage the diverse risks associated with explosive atmospheres you need an electrical connector that adapts to the requirements of your application. MARECHAL® connectors are:

- Safe
- Easy to use
- Flexible
- High quality

... and offer a broad range of products that fit the requirements of all your sites, ensuring complete peace of mind.

MARECHAL ELECTRIC's Ex DECONTACTOR™ are ATEX approved plugs and sockets with an integrated load-break isolating switch. Combining these functions into the same unit makes the DECONTACTOR™ a safe, reliable, compact and cost-effective disconnection device for motors and power supplies in Ex atmospheres, saving your time and money.



CONNECT

DXN
COMPACT & WATERTIGHT
DECONTACTOR™
P. 4



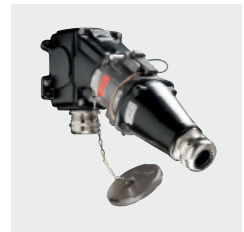
DX
METAL DECONTACTOR™
P. 12



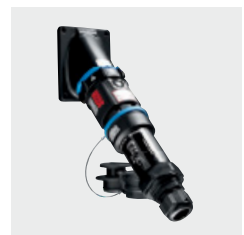
PNCX
COMPACT CONNECTOR
P. 20



PXN12C / DXN25C / DXN37C
MULTI-CONTACT CONNECTORS
P. 22



SPeX
SINGLE POLE
POWER CONNECTOR
P. 26



MXBS / MXBJ
SOCKET-OUTLET
COMBINATION &
JUNCTION BOXES
P. 28



B2X
JUNCTION BOXES
P. 30




TECHNOR
LIGHTING, FLAMEPROOF
ENCLOSURES, JUNCTION BOXES,
CONTROL STATIONS, AUDIBLE &
VISUAL SIGNALS, CABLE
GLANDS & ACCESSORIES
P. 34



TECHNICAL SPECIFICATIONS P. 36

DXN

COMPACT & WATERTIGHT DECONTACTOR™ 20 A / 32 A / 63 A

- ▶  II2 G D Ex de IIC Gb
- ▶ IP66/IP67 WATER- AND DUST-TIGHT
- ▶ INTEGRATED LOAD-BREAK SWITCH
- ▶ ROBUST AND COMPACT DESIGN
- ▶ HIGH PERFORMANCE POLY CASING

DXN decontactors are designed for hazardous areas, with 'de' protection mode. They comply with the ATEX 94/9/CE Directive. They can be used in zones 1 & 2 (Gas) and zones 21 & 22 (Dust). They are certified according to IECEx standards.

■ MOUNTING: SWITCH SHOULD BE ON THE UPPER SIDE!

The decontactor is a socket-outlet with integral switching. It does not need to be interlocked with a switch. The switch button is highlit for easier identification. When installing the socket-outlet, ensure the switch button is positioned upwards.





SPECIFICATION

IP66/IP67 plugs and socket-outlets with «de» protection mode for hazardous areas (ATEX) with integral load-break switching capacity, comply with BECMA international standard.



TECHNICAL FEATURES

	DXN1	DXN3	DXN6
Rated current (In)	20 A	32 A	63 A
Umax	550 V	750 V	750 V
Auxiliary contacts (optional)	-	2	2
Keying positions ⁽¹⁾	24 for all DXN		
Ambient temperature	See product sticker - for all DXN		
Protection mode	«de» for all DXN		
ATEX zones	Zones 1 & 2 (gas) Zones 21 & 22 (dusts) - for all DXN		

⁽¹⁾ To distinguish between different power supplies and applications

STANDARDS ASPECTS

DXN decontactors comply with:

- The ATEX 94/9/CE Directive,
- IEC EN 60079-0, IEC EN 60079-1, IEC EN 60079-7 and IEC EN 60079-31 international standards
- The essential safety requirements of IEC 60309-1 & IEC 60309-4 international and European standards (plugs and socket-outlets for industrial purposes),
- The switch utilization categories AC-22 and AC-23 described in IEC EN 60947-3,
- The French NF C 15-100 standard,
- The European 'Machine Directive' 2006/42/CE regarding equipment isolation,
- 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,

Also certified by VERITAS LCIE, KGS KOREA, GOST, INMETRO and cCSAus (French, Korean, Russian, Brazilian and American-Canadian* European and international notified bodies) and by BUREAU VERITAS MARINE.

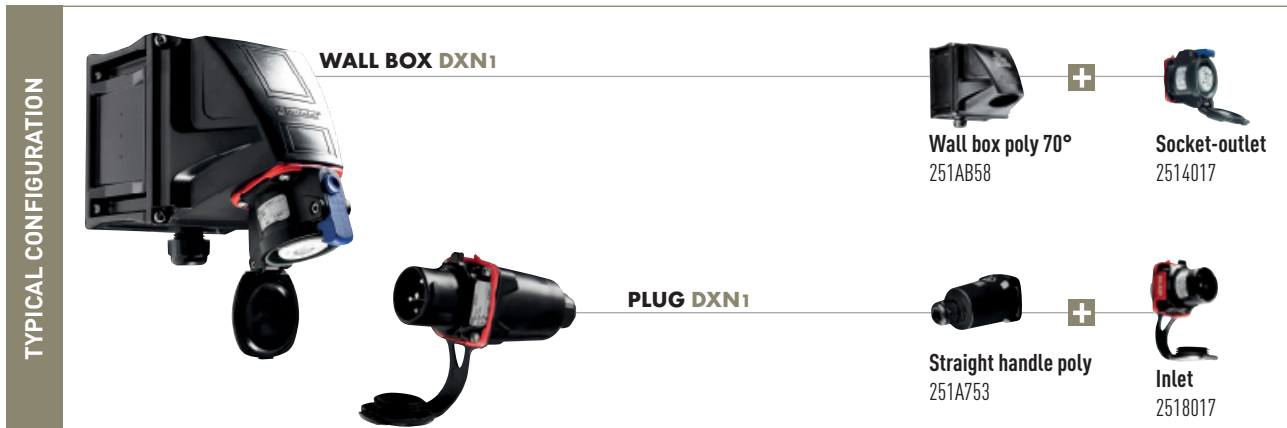
(*) for North-American markets



DXN1

 DECONTACTOR™ HIGH PERFORMANCE POLY CASING

20 A
IP66/IP67



MAIN FEATURES

Rated current (with wiring according to standard)	20 A	Flexible wiring (min-max)	1 - 4 mm ²
Maximum voltage	550 V	Stranded wiring (min-max)	1,5 - 6 mm ²
IP protection lid closed	IP66/IP67	Other wiring	on request
IP protection connected plug	IP66/IP67	Keying positions	24
Shock resistance	IK08	Protection mode	de
Ambient temperature	-40 °C to +60 °C	ATEX zones	1 & 2, 21 & 22

Temperature rating

Gas temperature classes

T₆ : surface T° ≤ 85 °C for an ambient T° between -40 and +40 °C
T₅ : surface T° ≤ 100 °C for an ambient T° between -40 and +60 °C

Dust surface temperature classes

Surface T° ≤ 70 °C for an ambient T° between -40 and +40 °C
Surface T° ≤ 90 °C for an ambient T° between -40 and +60 °C

Comply with EN 60309-1

20 A / 550 V

EACH SOCKET OUTLET OR INLET MUST BE ASSOCIATED WITH A BOX, A SLEEVE OR A HANDLE.

Voltage 50 Hz	Polarity	Part no.	Part no.
20 - 24 V	2P	251408A	251808A
190 - 230 V	3P+E	2514033	2518033
220 - 250 V	1P+N+E	2514015	2518015
380 - 440 V	3P+E	2514013	2518013
380 - 440 V	3P+N+E	2514017	2518017
480 - 500 V	3P+E	2514093	2518093
480 - 500 V	3P+N+E	2514097	2518097

SOCKET-OUTLET female DXN1 (20 A)




INLET male DXN1 (20 A)



► Other voltages, frequencies and contact configurations are available.

MARECHAL ELECTRIC MAROMME

 II 2 G D Ex de IIC tD A21

-40 °C ≤ T_a ≤ +60 °C T5 T90 °C

-40 °C ≤ T_a ≤ +40 °C T6 T70 °C

IECEX LCI 09.0005X / LCIE 99 ATEX 6027 X

BOXES

Ex poly cable gland included



Wall box poly 30°



Wall box poly 70°*

Ex cable gland				
M20	251AB53	10-14 mm	251AB58	10-14 mm
M25	251AB5325P	12-18 mm	251AB5825P	12-18 mm
M32			251AB5832P	16-25 mm

* For alternatives with Earth continuity or several entries, cable glands for armoured cable, please contact us

SLEEVES



Inclined poly 30°

251A027



Inclined poly 70°

251A757

HANDLES

Ex cable gland included



Straight poly with poly cable gland



Straight poly with métal cable gland with Earth continuity

Ex cable gland				
M20	251A753	10-14 mm	251A25320M	8-10 mm
M25	251A25325P	12-18 mm	251A25325M	12-14 mm
M32	251A25332P	18-25 mm	251A25332M	18-24 mm

ACCESSORIES & OPTIONS

Locking with shaft for 3 padlocks ø 4 mm (padlocks not supplied)

Socket no. + 844



Box equipped with ATEX metal entry with Earth continuity.

Consult us

Inlet cap

251A126



180° opening lid

Socket no. + 10

Self-returning lid

Socket no. + R

180° opening and self-returning lid

Socket no. + 18

INFO + Compatible with DSN1 socket

Upon request, the DXN1 'de' plugs (20 A) can be connected to the industrial DSN1 (20 A) socket-outlet and coupler sockets.

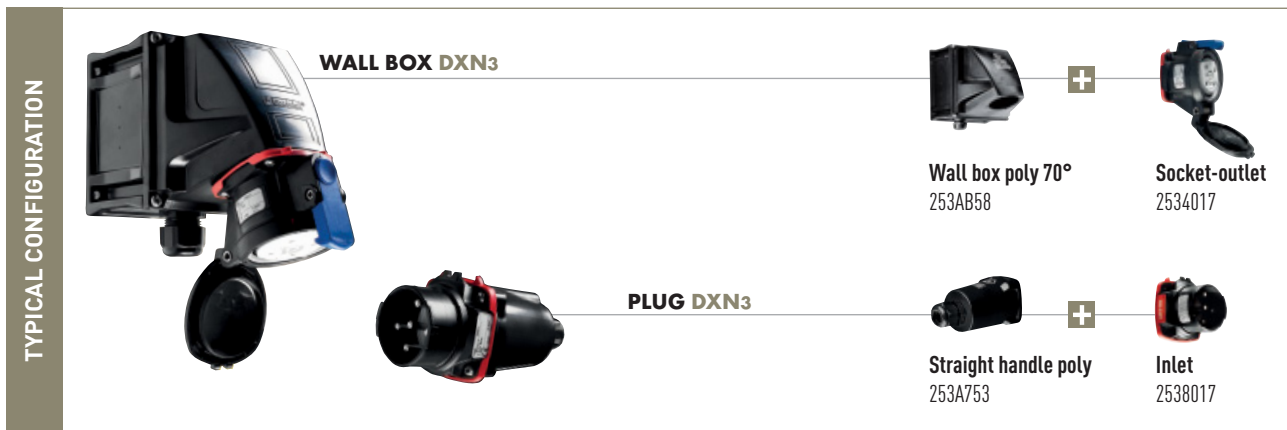
Thus, you can move mobile Ex devices equipped with a DXN1 plug in and out of your Ex zones. Contact us.



INFO + Self-ejecting DXN1

The DXN1 is available in ejection. Thank you to consult us to define your current, voltage, polarity and assembly needs.





MAIN FEATURES

Rated current (with wiring according to standard)	32 A	Flexible wiring (min-max)	2,5 - 10 mm ²
Maximum voltage	750 V	Stranded wiring (min-max)	2,5 - 16 mm ²
IP protection lid closed	IP66/IP67	Other wiring	on request
IP protection connected plug	IP66/IP67	Keying positions	24
Shock resistance	IK08	Protection mode	de
Ambient temperature	-40 °C to +60 °C	ATEX zones	1 & 2, 21 & 22

Temperature rating

Gas temperature classes

T₆ : surface T° ≤ 85 °C for an ambient T° between -40 and +40 °C
 T₅ : surface T° ≤ 135 °C for an ambient T° between -40 and +60 °C

Dust surface temperature classes

Surface T° ≤ 57 °C for an ambient T° between -40 and +40 °C
 Surface T° ≤ 77 °C for an ambient T° between -40 and +60 °C

Comply with EN 60309-1

32 A / 750 V

EACH SOCKET OUTLET OR INLET
MUST BE ASSOCIATED WITH A
BOX, A SLEEVE OR A HANDLE.

Voltage 50 Hz	Polarity	Part no.	Part no.
20 - 24 V	2P	253408A	253808A
190 - 230 V	3P+E	2534033	2538033
220 - 250 V	1P+N+E	2534015	2538015
380 - 440 V	3P+E	2534013	2538013
380 - 440 V	3P+N+E	2534017	2538017
480 - 500 V	3P+E	2534093	2538093
480 - 500 V	3P+N+E	2534097	2538097

► Other voltages, frequencies and contact configurations are available.

MARECHAL ELECTRIC MAROMME

EX IIC G D Ex de IIC tD A21

-40 °C ≤ Ta ≤ +60 °C T5 T77 °C

-40 °C ≤ Ta ≤ +40 °C T6 T57 °C

IECEX LCI 09.0006 / LCIE 05 ATEX 6149

AUXILIARY CONTACTS

Socket-outlet with 2 auxiliary contacts (5 A / 550 V)

Socket no. + 972

Inlet with 2 auxiliary contacts (5 A / 550 V)

Inlet no. + 972

BOXES

Ex poly cable gland included



Wall box poly 30°



Wall box poly 70°*

Ex cable gland

M20	253AB53	10-14 mm	253AB5820P	10-14 mm
M25	253AB5325P	12-18 mm	253AB58	12-18 mm
M32			253AB5832P	16-25 mm

* For alternatives with Earth continuity or several entries, cable glands for armoured cable, please contact us

SLEEVES



Inclined poly 30°

253A027



Inclined poly 70°

253A757

HANDLES

Ex cable gland included



Straight poly with poly cable gland



Straight poly with métal cable gland with Earth continuity

Ex cable gland

M20	253A753	10-14 mm	253A25320M	8-10 mm
M25	253A783	12-18 mm	253A25325M	12-14 mm
M32	253A25332P	16-25 mm	253A25332M	18-24 mm
M40	253A25340P	24-34 mm		

ACCESSORIES & OPTIONS

Locking with shaft for 3 padlocks
ø 4 mm (padlocks not supplied)

Socket no. + 844



Box equipped with ATEX metal entry with Earth continuity.

Consult us

Inlet cap

253A126



180° opening lid

Socket no. + 10

Self-returning lid

Socket no. + R

180° opening and self-returning lid

Socket no. + 18

INFO +

Compatible with DSN3 socket

Upon request, the DXN3 'de' plugs (32 A) can be connected to the industrial DSN3 (32 A) socket-outlet and coupler sockets.

Thus, you can move mobile Ex devices equipped with a DXN3 plug in and out of your Ex zones. Consult us.



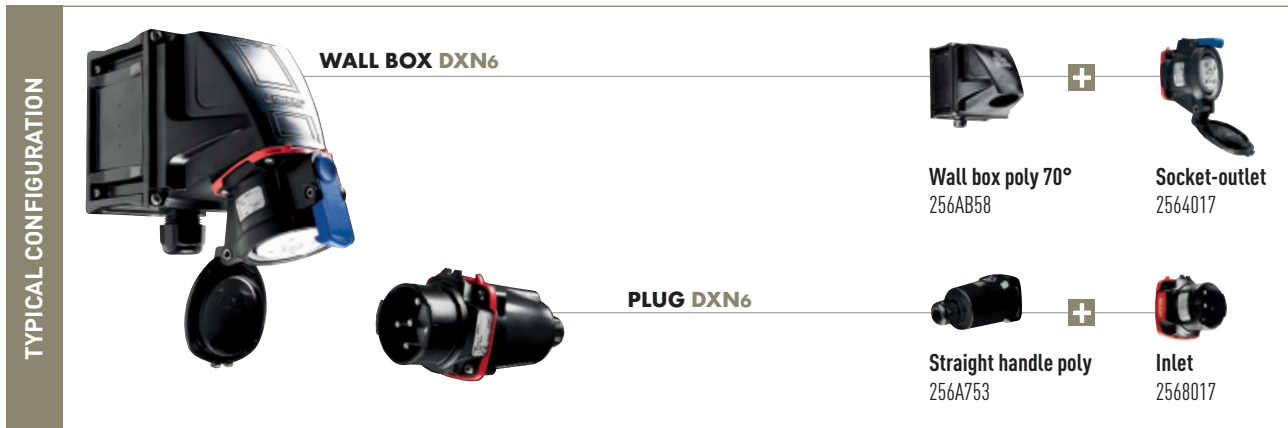
INFO +

Self-ejecting DXN3

The DXN3 is available in ejection.

Thank you to consult us to define your current, voltage, polarity and assembly needs.





MAIN FEATURES

Rated current (with wiring according to standard)	63 A	Flexible wiring (min-max)	6 - 16 mm ²
Maximum voltage	750 V	Stranded wiring (min-max)	6 - 25 mm ²
IP protection lid closed	IP66/IP67	Other wiring	on request
IP protection connected plug	IP66/IP67	Keying positions	24
Shock resistance	IK09	Protection mode	de
Ambient temperature	-40 °C to +60 °C	ATEX zones	1 & 2, 21 & 22

Temperature rating

Gas temperature classes

T5 : surface T° ≤ 100 °C for an ambient T° between -40 and +40 °C

T4 : surface T° ≤ 135 °C for an ambient T° between -40 and +60 °C

Dust surface temperature classes

surface T° ≤ 87 °C for an ambient T° between -40 and +40 °C

surface T° ≤ 107 °C for an ambient T° between -40 and +60 °C

Comply with EN 60309-1

63 A / 750 V

EACH SOCKET OUTLET OR INLET
MUST BE ASSOCIATED WITH A
BOX, A SLEEVE OR A HANDLE.

Voltage 50 Hz	Polarity	Part no.	Part no.
20 - 24 V	2P	256408A	256808A
190 - 230 V	3P+E	2564033	2568033
220 - 250 V	1P+N+E	2564015	2568015
380 - 440 V	3P+E	2564013	2568013
380 - 440 V	3P+N+E	2564017	2568017
480 - 500 V	3P+E	2564093	2568093
480 - 500 V	3P+N+E	2564097	2568097

► Other voltages, frequencies and contact configurations are available.

MARECHAL ELECTRIC MAROMME

Ex II 2 G D Ex de IIC tD A21

-40 °C ≤ Ta ≤ +60 °C T4 T107 °C

-40 °C ≤ Ta ≤ +40 °C T5 T87 °C

IECEX LCI 09.0007 / LCIE 05 ATEX 6150

AUXILIARY CONTACTS

Socket-outlet with 2 auxiliary contacts (5 A / 550 V)

Socket no. + 972

Inlet with 2 auxiliary contacts (5 A / 550 V)

Inlet no. + 972

BOXES

Ex poly cable gland included



Wall box poly 30°



Wall box poly 70°*

Ex cable gland

M20			256AB5820P	10-14 mm
M25	256AB53	12-18 mm	256AB5825P	12-18 mm
M32			256AB58	16-25 mm
M40			256AB5840P	24-34 mm

* For alternatives with Earth continuity or several entries, cable glands for armoured cable, please contact us

SLEEVES



Inclined poly 30°

256A027



Inclined poly 70°

256A757

HANDLES

Ex cable gland included



Straight poly with poly cable gland



Straight poly with metal cable gland with Earth continuity

Ex cable gland

M20	256A25320P	10-14 mm	256A25320M	8-10 mm
M25	256A753	12-18 mm	256A25325M	12-14 mm
M32	256A25332P	16-25 mm	256A25332M	18-24 mm
M40	256A25340P	24-34 mm		

ACCESSORIES & OPTIONS

Locking with shaft for 3 padlocks
ø 4 mm (padlocks not supplied)

Socket no. + 844



Box equipped with ATEX metal entry with Earth continuity.

Consult us

Inlet cap

256A126



180° opening lid

Socket no. + 10

Self-returning lid

Socket no. + R

180° opening and self-returning lid

Socket no. + 18

INFO +

DXN3 & DXN6 with 2 auxiliary contacts

2 auxiliary contacts are available for signal and control purposes, as well for auxiliary circuits such as light monitors.



INFO +

Self-ejecting DXN6

The DXN6 is available in ejection. Thank you to consult us to define your current, voltage, polarity and assembly needs.



DX

METAL DECONTACTOR™

20 A / 32 A / 63 A / 125 A / 200 A

- ▶  II2 G D Ex de IIC
- ▶ IP65 WATER- AND DUST-TIGHT
- ▶ INTEGRATED LOAD-BREAK SWITCH
- ▶ LOCKING IN ON/OFF POSITIONS BY KEYING AXIS

DX decontactors are designed for hazardous areas, with 'de' protection mode. They comply with the ATEX 94/9/CE Directive. They can be used in zones 1 & 2 (Gas) and zones 21 & 22 (Dust). They are certified according to IECEx standards.

MECHANICAL FEATURES

- Enclosure "d": during connection and disconnection, electric arc is contained and cannot reach the outside of the enclosure.



Interior moulding in the stand-by position: Cut view of the explosion-proof chamber.

Connection:



Socket-outlet with a plug contact engaged: Closing of the dead butt-contact(s) ; unlocking of the interior moulding.

- Aluminium corrosion-free casing
- IK10 shock resistance
- External male contacts: these pins engage with the spring-loaded silver-nickel butt contacts inside the socket
- IP65 lid
- ON/OFF indicator
- Design ensures compliance with interlock standard EN 60309-4 : no live contacts.



Plug rotation: Pressure on the springs. Switch contacts close immediately.

Disconnection:



Reversed rotation of the plug: The switch contacts open immediately. Return of the plug to its "off" stand-by position.



SPECIFICATION

IP65 plug and socket-outlet with «de» protection mode for hazardous areas (ATEX) with integral load-break switching capacity, comply with BECMA international standard.



TECHNICAL FEATURES

	DX1	DX3	DX6	DX9	DX2
Rated current (In)	20 A	32 A	63 A	125 A	200 A
Umax	750 V	750 V	750 V	750 V	750 V
Keying positions ⁽¹⁾	12	12	12	12	12
Ambient temperature	-25 °C ≤ Ta ≤ +60 °C		-40 °C ≤ Ta ≤ +60 °C		
Protection mode	«de» for all DX				
ATEX zones	Zones 1 & 2 (gas) Zones 21 & 22 (dusts) - for all DX				

⁽¹⁾ To distinguish between different power supplies and applications

STANDARDS ASPECTS

DX decontactors comply with:

- The ATEX 94/9/CE Directive,
- IEC EN 60079-0, IEC EN 60079-1, IEC EN 60079-7 and IEC EN 60079-31 international standards
- The essential safety requirements of IEC 60309-1 & IEC 60309-4 international and European standards (plugs and socket-outlets for industrial purposes),
- The French NF C 15-100 standard,
- The European 'Machine Directive' 2006/42/CE regarding equipment isolation,
- 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,

Also certified by KGS KOREA, GOST and VERITAS LCIE (Korean, Russian and French European and international notified bodies).








MAIN FEATURES

Rated current (with wiring according to standard)	20 A	Flexible wiring (min-max)	2,5 - 10 mm ²
Maximum voltage	750 V	Stranded wiring (min-max)	2,5 - 10 mm ²
IP protection lid closed	IP65	Other wiring	on request
IP protection connected plug	IP65	Keying positions	12
Shock resistance	IK10	Protection mode	de
Ambient temperature	-25 °C to +60 °C	ATEX zones	1 & 2, 21 & 22

EACH SOCKET OUTLET OR INLET MUST BE ASSOCIATED WITH A BOX, A SLEEVE OR A HANDLE.

	SOCKET-OUTLET female DX1 (20 A)		INCLINED APPLIANCE INLET male DX1 (20 A)		PLUG male DX1 (20 A)	
Voltage 50 Hz						
220 - 250 V	1P+N+E	2624015	2626015	8-13 mm	2621015	
380 - 440 V	3P+E	2624013	2626013	8-13 mm	2621013	
380 - 440 V	3P+N+E	2624017	2626017	8-13 mm	2621017	

► Other voltages, frequencies and contact configurations are available.

BOXES

Ex metal cable gland included*



Wall box metal 90°

HANDLES

Ex metal cable gland included*



Straight handle metal


Cable gland entry	Part no.		Cable gland entry	Part no.	
M20	262AB53	8-13 mm	M20	262A963	8-13 mm
M25	262AB5325M	9-16 mm	M25	262A95325M	9-16 mm
M32	262AB5332M	12-21 mm	M32	262A95332M	12-21 mm

* For alternatives with Earth continuity, please contact us

LOCKING

Locking position connected or disconnected by lockable shaft as standard.

MARECHAL ELECTRIC MAROMME

 II 2 G D Ex de IIC tD A21

-25 °C ≤ Ta ≤ +60 °C T5 T84 °C

-25 °C ≤ Ta ≤ +50 °C T6 T74 °C

IECEX LCI 09.0014 / LCIE 05 ATEX 6127

**DX**

DX3

DECONTACTOR™ METAL

32 A
IP65

TYPICAL CONFIGURATION



MAIN FEATURES

Rated current (with wiring according to standard)	32 A	Flexible wiring (min-max)	2,5 - 10 mm ²
Maximum voltage	750 V	Stranded wiring (min-max)	2,5 - 10 mm ²
IP protection lid closed	IP65	Other wiring	on request
IP protection connected plug	IP65	Keying positions	12
Shock resistance	IK10	Protection mode	de
Ambient temperature	-25 °C to +60 °C	ATEX zones	1 & 2, 21 & 22

**SOCKET-
OUTLET** female
DX3 (32 A)**INCLINED
APPLIANCE INLET**
male **DX3 (32 A)****PLUG**
male
DX3 (32 A)EACH SOCKET OUTLET OR INLET
MUST BE ASSOCIATED WITH A
BOX, A SLEEVE OR A HANDLE.

Voltage 50 Hz	Polarity	Part no.	Part no.	Part no.
220 - 250 V	1P+N+E	2634015	2636015	9-16 mm 2631015
380 - 440 V	3P+E	2634013	2636013	9-16 mm 2631013
380 - 440 V	3P+N+E	2634017	2636017	9-16 mm 2631017

► Other voltages, frequencies and contact configurations are available.

BOXESEx metal cable gland
included***Wall box
metal 90°****HANDLES**Ex metal cable gland
included***Straight handle
metal**

Cable gland entry	Part no.	Cable gland entry	Part no.
M20	263AB5320M 8-13 mm	M20	263A95320M 8-13 mm
M25	263AB53 9-16 mm	M25	263A963 9-16 mm
M32	263AB5332M 12-21 mm	M32	263A95332M 12-21 mm

* For alternatives with Earth continuity, please contact us

MARECHAL ELECTRIC MAROMME

II 2 G D Ex de IIC tD A21
 -25 °C ≤ Ta ≤ +60 °C T5 T84 °C
 -25 °C ≤ Ta ≤ +50 °C T6 T74 °C
 IECEx LCI 09.0014 / LCIE 05 ATEX 6127

LOCKING




Locking position connected or disconnected by lockable shaft as standard.



MAIN FEATURES

Rated current (with wiring according to standard)	63 A	Flexible wiring (min-max)	16 - 50 mm ²
Maximum voltage	750 V	Stranded wiring (min-max)	16 - 50 mm ²
IP protection lid closed	IP65	Other wiring	on request
IP protection connected plug	IP65/IP66	Keying positions	12
Shock resistance	IK10	Protection mode	de
Ambient temperature	-40 °C to +60 °C	ATEX zones	1 & 2, 21 & 22

EACH SOCKET OUTLET OR INLET MUST BE ASSOCIATED WITH A BOX, A SLEEVE OR A HANDLE.

	SOCKET-OUTLET female DX6 (63 A)		INCLINED APPLIANCE INLET male DX6 (63 A)		PLUG male DX6 (63 A)	
Voltage 50 Hz						
220 - 250 V	1P+N+E	2664015	2666015	12-21 mm	2661015	
380 - 440 V	3P+E	2664013	2666013	12-21 mm	2661013	
380 - 440 V	3P+N+E	2664017	2666017	12-21 mm	2661017	

► Other voltages, frequencies and contact configurations are available.

BOXES

Ex metal cable gland included*



Wall box metal 90°

HANDLES

Ex metal cable gland included*



Straight handle metal

Cable gland entry	Part no.		Cable gland entry	Part no.	
M25	266AB5325M	9-16 mm	M25	266A95325M	9-16 mm
M32	266AB53	12-21 mm	M32	266A963	12-21 mm
M40	266AB5340M	16-27 mm	M40	266A95340M	16-27 mm

* For alternatives with Earth continuity, please contact us

LOCKING

Locking position connected or disconnected by lockable shaft as standard.

MARECHAL ELECTRIC MAROMME

 II 2 G D Ex de IIC tD A21

-40 °C ≤ Ta ≤ +60 °C T5 T90 °C

-40 °C ≤ Ta ≤ +50 °C T6 T80 °C

IECEX LCI 09.0015 / LCIE 04 ATEX 6038

**DX**

DX9

DECONTACTOR™ METAL

**125 A
IP65/IP66**

TYPICAL CONFIGURATION

**WALL BOX DX9****Wall box 90°
269AB53****Socket-outlet
2694017****PLUG DX9****Plug
2691017**

MAIN FEATURES

Rated current (with wiring according to standard)	125 A	Flexible wiring (min-max)	50 - 70 mm ²
Maximum voltage	750 V	Stranded wiring (min-max)	50 - 70 mm ²
IP protection lid closed	IP65	Other wiring	on request
IP protection connected plug	IP65/IP66	Keying positions	12
Shock resistance	IK10	Protection mode	de
Ambient temperature	-40 °C to +60 °C	ATEX zones	1 & 2, 21 & 22

SOCKET-OUTLET
female
DX9 (125 A)**INCLINED APPLIANCE INLET**
male **DX9 (125 A)****PLUG**
male
DX9 (125 A)EACH SOCKET OUTLET OR INLET
MUST BE ASSOCIATED WITH A
BOX, A SLEEVE OR A HANDLE.

Voltage 50 Hz	Polarity	Part no.	Part no.	Part no.
380 - 440 V	3P+E	2694013	2696013	16-27 mm 2691013
380 - 440 V	3P+N+E	2694017	2696017	16-27 mm 2691017
				23-35 mm 269101350M
				23-35 mm 269101750M
				36-48 mm 269101363M
				36-48 mm 269101763M

▶ Other voltages, frequencies and contact configurations are available.

BOXESEx metal cable gland
included***Wall box
metal 90°****HANDLES**Ex metal cable gland
included***Straight handle
metal**

Cable gland entry	Part no.	Cable gland entry	Part no.
M32	269AB5332M 12-21 mm	M32	269A95332M 12-21 mm
M40	269AB53 16-27 mm	M40	269A963 16-27 mm
M50	269AB5350M 23-35 mm	M50	269A95350M 23-35 mm
M63	269AB5363M 36-48 mm	M63	269A95363M 36-48 mm

* For alternatives with Earth continuity, please contact us

LOCKING

Locking position connected or disconnected by lockable shaft as standard.

MARECHAL ELECTRIC MAROMME

Ex II 2 G D Ex de IIC tD A21

-40 °C ≤ Ta ≤ +60 °C T5 T90 °C

-40 °C ≤ Ta ≤ +50 °C T6 T80 °C

IECEX LCI 09.0015 / LCIE 04 ATEX 6038



MAIN FEATURES

Rated current (with wiring 70 mm ²)	200 A	Câblage Flexible	70 mm ²
Maximum voltage	750 V	Câblage Stranded	70 mm ²
IP protection lid closed	IP65	Other wiring	on request
IP protection connected plug	IP65/IP66	Keying positions	12
Shock resistance	IK10	Protection mode	de
Ambient temperature	-40 °C to +60 °C	ATEX zones	1 & 2, 21 & 22

EACH SOCKET OUTLET OR INLET
MUST BE ASSOCIATED WITH A
BOX, A SLEEVE OR A HANDLE.

**SOCKET-
OUTLET** female
DX2 (200 A)



**INCLINED
APPLIANCE INLET**
male **DX2 (200 A)**



PLUG
male
DX2 (200 A)



Voltage 50 Hz	Polarity	Part no.	Part no.	Part no.
380 - 440 V	3P+E	2674013	2676013	36-48mm 2671013
380 - 440 V	3P+N+E	2674017	2676017	36-48mm 2671017

► Other voltages, frequencies and contact configurations are available.

BOXES

Ex metal cable gland
included



Wall box
metal 90°

HANDLES


Ex metal cable gland
included



Straight handle
metal

Cable gland entry	Part no.	Cable gland entry	Part no.
M63	267AB53	M63	267A963
	36-48 mm		36-48 mm

MARECHAL ELECTRIC MAROMME

 II 2 G D Ex de IIC tD A21

-40 °C ≤ Ta ≤ +60 °C T3 T91 °C

IECEX LCI 09.0015 / LCIE 04 ATEX 6038


LOCKING

Locking position connected or disconnected by lockable shaft as standard.



PNCX

COMPACT CONNECTOR 10 A

- ▶  II 3 G D
- ▶ CAN BE USED IN ZONES 2 (GAS) AND 22 (DUST)
- ▶ COMPACT AND EASY TO USE
- ▶ IP66/IP67 WATERTIGHT (IP68 ACCORDING TO SPECIFICATION)
- ▶ LONG LIFE

The PNCX is a compact and rugged connector designed for all types of aggressive environments (humidity, corrosion, pollution) found in many industrial hazardous areas. The 5 contacts connection can meet all needs and applications such as lighting. The PNCX connector is both quickly assembled and put into service. Its locking ring resists vibration thus preventing accidental disconnection of the plug on load. MARECHAL®'s technically advanced silver-nickel butt contact system assures next level performance no matter the conditions. The PNCX guarantees a long-lasting and electrically efficient connection for your industry.

ELECTRICAL FEATURES

Voltage	440 V
Impulse withstand voltage	5 kV / Pollution degree 3
Contact resistance	< 2mΩ
Permitted current range	4-20 mA / 10 A
Polarity	3P+N+E
Conductors accepted	From 0,75 mm ² to 2,5 mm ² Mechanical terminals
Cable diameter	From 7 to 14 mm (smaller ø available according to specification)

CLIMATIC FEATURES

Ambient temperature	-20 °C à +60 °C
IP protection Socket with cap	IP66/IP67 IP69K 100bar (1450 PSI) 80 °C
IP protection connected plug	IP66/IP67 IP68 tested at 10 meters deep for 15 days (please contact us for references) IP69K 100bar (1450 PSI) 80 °C
Salt, Fog performance	200 h minimum not connected - More than 1000 h connected
Resistance to fluids	Motor oils, petrol, fats, detergents...

STANDARDS ASPECTS


PNCX connectors comply with:

- The ATEX 94/9/CE Directive,
- The requirements of IEC 61984, IEC 60529, IEC 62262, IEC 60068-2-6, EN/IEC 60079-0, EN/IEC 60079-15 et EN/IEC 60079-31 International standards,
- The European Low Voltage Directive 2006/95/CE,
- 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.

MECHANICAL FEATURES

Casing & insulator	Glassfibre reinforced thermoplastic UL94 V-0
Butt contacts	Copper alloy with silver-nickel tips
Contact protection	Tinning
Load cycles	More than 2000 cycles
Shock resistance	IK08
Vibration	Frequency 5-1000 Hz, 1g (90 minutes on each critical frequency) according to IEC 60068-2-6

ATEX MARKINGS

ATEX zones	Gas zone 2 and Dust zone 22
ATEX markings	 II 3 G D Ex nAc IIC Ex tc IIIC -20°C ≤ Ta ≤ +60 °C T5 T76°C -20°C ≤ Ta ≤ +50 °C T6 T66°C
Technical manual	MAR X 13.0001



SPECIFICATION

IP66/IP67, IP69K connector (IP68 according to specification) for hazardous areas (ATEX), Zones 2 (Gas) and 22 (Dusts), silver-nickel butt contacts, comply with BECMA international standard.



SOCKET-OUTLET
female **PNCX (10 A)**



INLET male
PNCX (10 A)

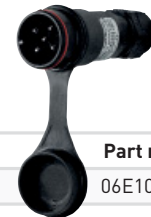


U _{max}	Polarity	Part no.	Part no.
440 V	5P	06E4007	06E8007

COUPLER SOCKET female
PNCX (10 A)




PLUG male
PNCX (10 A)



U _{max}	Polarity	Part no.	Part no.
440 V	5P	06E3007	06E1007

PXN_{12C} DXN_{25C} DXN_{37C}

MULTI-CONTACT CONNECTORS 10 A

- ▶  II 2 G D Ex e ia OR ib IIC
- ▶ FROM 12 TO 37 CONTACTS
- ▶ LOCKING IN CONNECTED OR DISCONNECTED POSITION
- ▶ CORROSION-FREE METAL CASING

■ TECHNICAL FEATURES

	PXN12C	DXN25C	DXN37C
Rated current (In)	10 A	10 A	10 A
U _{max}	220 V	440 V	230 V
Number of contacts	11P+E	24P+E	36P+E
IP protection lid closed	IP65/IP66	IP66/IP67	IP66/IP67
IP protection connected plug	IP65/IP66	IP66/IP67	IP66/IP67
Shock resistance	IK09 for all Multicontact connectors		
Ambient temperature	-40 °C to +55 °C	-40 °C to +60 °C	-40 °C to +55 °C
Protection mode	«e» for all Multicontact connectors		
ATEX zones	Zones 1 & 2 (gas) Zones 21 & 22 (dusts) - for all Multicontact connectors		

■ STANDARDS ASPECTS

PXN12C, DXN25C and DXN37C comply with:

- The ATEX 94/9/CE Directive,
- IEC EN 60079-0, IEC EN 60079-7 and IEC EN 60079-31 International standards
- The French NF C 15-100 standard,
- The decrees relating to workers' protection in Belgium, Spain and Italy,

Also certified by VERITAS LCIE and GOST (French and Russian European and international notified bodies).





SPECIFICATION

Multicontact connectors IP65/IP66 with increased safety «e» for hazardous areas (ATEX), comply with BECMA international standard.



PXN12C METAL MULTI-CONTACT CONNECTORS

10 A
IP65/IP66

MAIN FEATURES

Rated current (with wiring according to standard)	10 A	Ambient temperature	-40 °C to +55 °C
Maximum voltage	220 V	Flexible wiring (min-max)	1 - 2,5 mm ²
Number of contacts	11P+E	Wiring	crimping
IP protection lid closed	IP65/IP66	Protection mode	e + i
IP protection connected plug	IP65/IP66	ATEX zones	1 & 2, 21 & 22
Shock resistance	IK09	Keying positions	2

CONNECTION OR DISCONNECTION SCREW LOCKING IMPRINT BTR 2.5.

WALL MOUNTING SOCKET female PXN12C (10 A)



PLUG male PXN12C (10 A)



Ex cable gland	Part no.	Ex cable gland	Part no.
M25	06A000125M 9-16 mm	M25	06A100125M 9-16 mm
M32	06A0001 12-21 mm	M32	06A1001 12-21 mm

INCLINED SOCKET female PXN12C (10 A)



INCLINED APPLIANCE INLET male PXN12C (10 A)



Part no.	Part no.
06A7001	06A9001

ACCESSORIES & OPTIONS

Inlet cap	06NA126
Crimping tool	61CA500
Helavia sleeve expansion tool	61CA400

COUPLER SOCKET female PXN12C (10 A)



WALL MOUNTING APPLIANCE INLET male PXN12C (10 A)



Ex cable gland	Part no.	Ex cable gland	Part no.
M25	06A300125M 9-16 mm	M25	06A600125M 9-16 mm
M32	06A3001 12-21 mm	M32	06A6001 12-21 mm

Each product is supplied with 1 bag of 13 contacts depending on the maximum configuration. This allows you to set up the product to suit your needs.

BAG OF 13 CONTACTS (SUPPLIED WITH INSULATION SLEEVES AND FERRULES)

Female socket-outlet Part Number	01AA213
Male inlet Part Number	01AA113

MARECHAL ELECTRIC MAROMME

II2 G D Ex e IIC Gb tbIIIC Db
-40 °C ≤ Ta ≤ +55 °C T5 T69 °C
Ex ia or ib IIC T6 Gb



MAIN FEATURES

Rated current (with wiring according to standard)	10 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	440 V	Flexible wiring (min-max)	1 - 2,5 mm ²
Number of contacts	24P+E	Wiring	crimped
IP protection lid closed	IP66/IP67	Protection mode	e + i
IP protection connected plug	IP66/IP67	ATEX zones	1 & 2, 21 & 22
Shock resistance	IK09	Keying positions	3

LOCKING POSITION CONNECTED
OR DISCONNECTED BY
LOCKABLE SHAFT.

**WALL MOUNTING
SOCKET female
DXN25c (10 A)**



**PLUG male
DXN25c (10 A)**



Ex cable gland	Part no.	Ex cable gland	Part no.
M32	36D000232M 12-21 mm	M32	36D100232M 12-21 mm
M40	36D0002 16-27 mm	M40	36D1002 16-27 mm

With padlocking shaft (padlock not included)

**INCLINED
SOCKET female
DXN25c (10 A)**



**INCLINED
APPLIANCE INLET
male DXN25c (10 A)**



Part no.	Part no.
36D7002	36D9002

With padlocking shaft (padlock not included)

ACCESSORIES & OPTIONS

Inlet cap	36NA126
Crimping tool	61CA500
Helavia sleeve expansion tool	61CA400

**COUPLER
SOCKET female
DXN25c (10 A)**



**WALL MOUNTING
APPLIANCE INLET
male DXN25c (10 A)**



Ex cable gland	Part no.	Ex cable gland	Part no.
M32	36D300232M 12-21 mm	M32	36D600232M 12-21 mm
M40	36D3002 16-27 mm	M40	36D6002 16-27 mm


With padlocking shaft (padlock not included)

Each product is supplied with 2 bags of 13 contacts depending on the maximum configuration. This allows you to set up the product to suit your needs.

BAG OF 13 CONTACTS (SUPPLIED WITH INSULATION SLEEVES AND FERRULES)

Female socket-outlet Part Number	01AA213
Male inlet Part Number	61CA113

MARECHAL ELECTRIC MAROMME

 II2 G D Ex e IIC Gbtb IIIC Db
-40 °C ≤ Ta ≤ +40 °C T6 T51 °C
-40 °C ≤ Ta ≤ +60 °C T5 T71 °C
Ex ia or ib IIC T6 Gb



MULTI

DXN37C

METAL MULTI-CONTACT CONNECTORS

10 A
IP66/IP67

TYPICAL CONFIGURATION



MAIN FEATURES

Rated current (with wiring according to standard)	10 A	Ambient temperature	-40 °C to +55 °C
Maximum voltage	230 V	Flexible wiring (min-max)	1 - 2,5 mm ²
Number of contacts	36P+E	Wiring	crimping
IP protection lid closed	IP66/IP67	Protection mode	e + i
IP protection connected plug	IP66/IP67	ATEX zones	1 & 2, 21 & 22
Shock resistance	IK09	Keying positions	3

LOCKING POSITION CONNECTED
OR DISCONNECTED BY
LOCKABLE SHAFT.

WALL MOUNTING SOCKET female DNX37c (10 A)



Ex cable gland	Part no.	Ex cable gland	Part no.
M32	36C000332M 12-21 mm	M32	36C100332M 12-21 mm
M40	36C0003 16-27 mm	M40	36C1003 16-27 mm

With padlocking shaft (padlock not included)

PLUG male DNX37c (10 A)



INCLINED SOCKET female DNX37c (10 A)



Part no.	Part no.
36C7003	36C9003

With padlocking shaft (padlock not included)

INCLINED APPLIANCE INLET male DNX37c (10 A)



ACCESSORIES & OPTIONS

Inlet cap	36NA126
Crimping tool	61CA500
Helavia sleeve expansion tool	61CA400

COUPLER SOCKET female DNX37c (10 A)



Ex cable gland	Part no.	Ex cable gland	Part no.
M32	36C300332M 12-21 mm	M32	36C600332M 12-21 mm
M40	36C3003 16-27 mm	M40	36C6003 16-27 mm

With padlocking shaft (padlock not included)

WALL MOUNTING APPLIANCE INLET male DNX37c (10 A)



MARECHAL ELECTRIC MAROMME

I I2 G D Ex e IIC Gbtb I IIC Db

-40 °C ≤ Ta ≤ +40 °C T6 T56 °C

-40 °C ≤ Ta ≤ +55 °C T5 T76 °C

Ex ia or ib IIC T6 Gb

Each product is supplied with 3 bags of 13 contacts depending on the maximum configuration. This allows you to set up the product to suit your needs.

BAG OF 13 CONTACTS (SUPPLIED WITH INSULATION SLEEVES AND FERRULES)

Female socket-outlet Part Number	01AA213
Male inlet Part Number	61CA113

SPeX

SINGLE POLE POWER CONNECTOR 680 A

- ▶  II2 G D Ex e IIC
- ▶ IP65/IP66 WATER- AND DUST-TIGHT
- ▶ ELECTROMECHANICAL INTERLOCKING SYSTEM
- ▶ MECHANIC AND VISUAL KEYING

The highest possible safety

- Reliable mechanical and electrical interlocking,
- IP2X socket-outlet when cap removed,
- Automatic IP65/IP66 when plug is connected.

An simple-to-use connector

- Straight insertion of the plug into the socket-outlet,
- Different mechanical keying for L1, L2, L3, N and E, positive and negative (d.c.)
- Visual identification by standard colours,

Performances

With 240 mm² wiring, the SPeX accepts a permanent current up to 570 A / 1000 V a.c. with T5 ATEX classification at 40 °C ambient temperature.

SPeX ATEX classification according to cable cross-section and Ta (ambient Temperature)

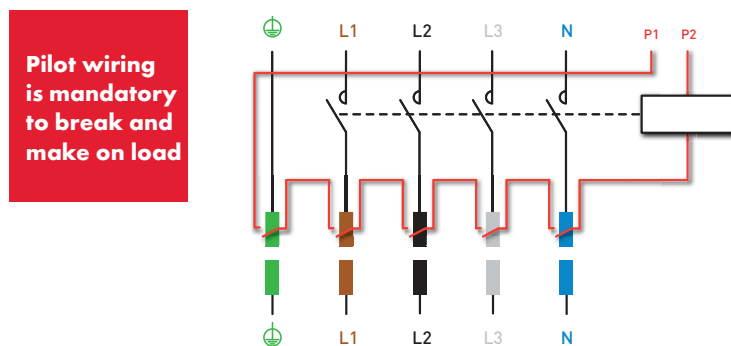
	$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
	G D T5 / T56°C	G D T6 / T56°C	G D T5 / T76°C
70 mm ²	290 A	235 A	235 A
95 mm ²	415 A	335 A	335 A
120 mm ²	456 A	376 A	376 A
150 mm ²	493 A	415 A	415 A
185 mm ²	530 A	450 A	450 A
240 mm ²	570 A	497 A	497 A
300 mm ²	620 A	540 A	540 A
400 mm ²	680 A	600 A	600 A



Energy distribution system with separate connection of contacts

The pilot contact breaks the circuit in conformity with ATEX Directive (increased safety "e").

The breaking system is not supplied





SPECIFICATION

IP65/IP66 single pole power connector with increased safety «e» for hazardous areas (ATEX), comply with BECMA international standard.

MAIN FEATURES

Rated current	according to category and cable	Ambient temperature	see table
Maximum voltage a.c.	1000 V	Wiring (min - max)	see table
Maximum voltage d.c.	1500 V	Keying position	mechanical (5) and visual
Short-circuit current I _{cc}	20 kA during 250 ms	Protection mode	e
IP protection - lid closed	IP65/IP66	ATEX zones	1 & 2, 21 & 22
IP protection - connected plug	IP65/IP66	Number of operations	2000
Shock resistance	IK08	Pre-wired pilot circuit	6 A / 250 V

SOCKET-OUTLET female
SPeX (680 A)
without lug



INLET male
SPeX (680 A)
without lug

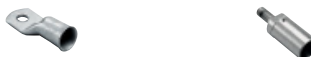


Type	European color coding*	Part no.	Part no. 18 to 25 mm	Part no. 24 to 34 mm	Part no. 34 to 42 mm	Part no. 40 to 48 mm
L1	Brown	4647001	464100132P	464100140P	464100150P	464100163P
L2	Black	4647002	464100232P	464100240P	464100250P	464100263P
L3	Grey	4647003	464100332P	464100340P	464100350P	464100363P
Neutral	Blue	464700N	464100N32P	464100N40P	464100N50P	464100N63P
Earth	Green	464700T	464100T32P	464100T40P	464100T50P	464100T63P
Positive	Red	464700P	464100P32P	464100P40P	464100P50P	464100P63P
Negative	Black	464700M	464100M32P	464100M40P	464100M50P	464100M63P

* Part-numbers valid for Europe and Japan.
For other countries, replace the prefix 46 by : 42 for the USA / 43 for Australia / 44 for UK and South-Africa.

LUGS

Lug choice depends on the cable: the cross-section of the flexible cable mentioned in the table below is for information only. Please check dimensions as these may vary according to cable types and manufacturers.



Wiring (mm ²)		Straight with hole	Straight threaded M12*	Internal diameter (mm)
Flexible	Stranded	Part no.	Part no.	
50	70	454A50C	454A50D	11
70	95	454A70C	454A70D	13,1
95	120	454A95C	454A95D	14,5
120	150	454A12C	454A12D	16,2
150	185	454A15C	454A15D	18
185	240	454A18C	454A18D	20,6
240	300	454A24C	454A24D	23,1
300	400	454A30C	454A30D	26,1
400	500	454A40C	454A40D	29,2

* Wiring with crimping lugs, according to NF C20-130 standard (for VDE 0220 standard, please contact us) **Crimping:** Double hexagonal crimping is recommended.

MARECHAL ELECTRIC MAROMME

II2 G D Ex e IIC Gb Ex tb IIIC Db
IECEx LCI 12.0005X / LCIE 07 ATEX 6073 X

MXBS

SOCKET-OUTLET COMBINATION BOXES 63 A

- ▶  II 2 G D Ex e ia OR ib IIC
- ▶ IP66 WATER- AND DUST-TIGHT
- ▶ UP TO 24 SOCKET-OUTLETS
- ▶ ASSEMBLY OF MULTI-CONTACT CONNECTORS AND SOCKET-OUTLETS ON THE SAME ENCLOSURE

Equipped with 20 to 63 A decontactors and/or 10 A multicontact connectors, these reinforced polyester resin fiberglass and graphite loaded socket-outlet combination boxes are designed for making electrical connections in hazardous areas, offering from 12 to 37 contacts. They provide increased safety and intrinsic safety, allowing them to be used in zones 1 & 2 (gas), 21 & 22 (dust). This comprehensive range is also ideal for wet environments – such as food and beverage or chemical industries – thanks to their corrosion resistance.

It is possible to mount both socket-outlets and multicontact connectors on the same box, with some models able to accommodate up to 24 socket-outlets or connectors.

TECHNICAL FEATURES

ASSOCIATED MARECHAL® PRODUCTS

Decontactors	DXN1, DXN3 and DXN6
Multicontact connectors	PXN12C, DXN25C and DXN37C

ELECTRICAL FEATURES

Maximum voltage*	750 V
Maximum nominal current*	63 A
Stranded wiring (min-max)*	1,5 - 25 mm ²
Flexible wiring (min-max)*	1,5 - 16 mm ²

* depending on the socket-outlet

Junction	Terminal blocks. Feed through and loop-in loop-out connection
Cable entries and glands	M12 to M63 depending on the size of the box / Polyamide cable gland for unarmoured cable Nickel plated brass cable gland for unarmoured cable and armoured cable (with plate or washer bonding inside the box)






THERMAL SPECIFICATION

Temperature range and ratings	From -40 °C to +60 °C From -40 °C ≤ Ta ≤ +40 °C T6 to T4* From -40 °C ≤ Ta ≤ +55 °C T5 to T4* From -40 °C ≤ Ta ≤ +60 °C T4 * depending on the internal components and socket mix (consult us)
-------------------------------	---

MECHANICAL FEATURES

Degree of protection	IP66
Shock resistance	IK09 according to IEC and EN 62 262.
Material	Enclosure made of polyester resin reinforced with fibreglass and graphite loaded for boxes. Casing made of High performance Poly for DXN1, DXN3 and DXN6 decontactors Casing made of Metal for PXN12C, DXN25C and DXN37C multicontact connectors Stainless steel screw

ATEX MARKINGS

ATEX zones	Gas and Dust : zones 1 & 2, 21 & 22
ATEX markings	 II 2 G D Ex e II T4 to T6 Ex tD A21 increased safety  2 G D Ex ia IIC T6 tD A21 or  II 2 G D Ex ib IIC T6 tD A21 intrinsically safety  2 G D Ex e ia IIC T6 tD A21 or  II 2 G D Ex e ib IIC T6 tD A21 increased safety and intrinsic safety

Standards compliance	IEC EN 60079-0, 60079-1, 60079-7, 60079-11 and 60079-31
----------------------	---

Certificates	Certificates IECEx N° IECEx LCI 11.0042 and ATEX N° LCIE 11 ATEX 3047
--------------	---



SPECIFICATION

Socket boxes IP66 for hazardous areas (ATEX), comply with BECMA international standard.



MAXIMUM NUMBER OF SOCKET-OUTLETS PER BOX (T6 at +40 °C ambient temperature)

Type	DXN1			DXN3			DXN6			PXN12C	DXN25C	DXN37C
	1P+N+E	3P+E	3P+N+E	1P+N+E	3P+E	3P+N+E	1P+N+E	3P+E	3P+N+E			
MXBS1	3	3	3	1	1	1	-	-	-	3	1	1
MXBS2	4	4	3	1	1	1	1*	1*	1*	3	1	1
MXBS3	7	4	3	2	2	2	1*	1*	1*	7	2	2
MXBS4	7	6	4	2	2	2	1*	1*	1*	4	1	1
MXBS5	13	9	6	4	4	4	1*	1*	1*	5	2	1
MXBS6	11	7	5	11	7	5	1	1	1	5	2	1
MXBS7	14	9	7	13	9	6	1	1	1	6	3	2
MXBS8	12	8	6	12	8	6	2	2	2	5	2	1
MXBS9	19	12	9	18	12	9	2	2	2	8	4	2
MXBS10	24	16	12	24	16	12	2	2	2	11	5	3

* T5 at = 40 °C

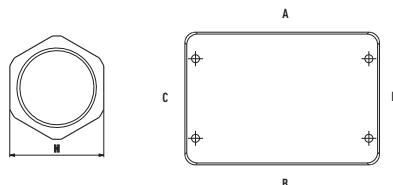
Note : Special configurations, wiring terminal blocks and a mixture of socket outlets are available. Please contact us.

MAXIMUM NUMBER OF POLY CABLE GLANDS PER SIDE (For metal cable gland for armoured cable contact us)

Box	Side	M12	M16	M20	M25	M32	M40	M50	M63
		(H = 15 mm)	(H = 22 mm)	(H = 24 mm)	(H = 33 mm)	(H = 42 mm)	(H = 53 mm)	(H = 60 mm)	(H = 70 mm)
MXBS1	A/B	15	6	6	2	2	-	-	-
	C/D	5	2	1	1	1	-	-	-
MXBS2	A/B	12	5	4	2	1	1	-	-
	C/D	12	5	4	2	1	1	-	-
MXBS3	A/B	32	14	12	6	3	2	-	-
	C/D	12	5	4	2	1	1	-	-
MXBS4	A/B	26	14	9	6	3	2	2	-
	C/D	18	8	6	3	2	1	1	-
MXBS5	A/B	72	38	26	16	7	5	4	-
	C/D	18	8	6	3	2	1	1	-
MXBS6	A/B	69	32	24	12	8	4	3	3
	C/D	51	24	18	10	7	3	3	2
MXBS7	A/B	117	56	42	21	14	7	5	5
	C/D	50	22	18	10	6	3	2	2
MXBS8	A/B	108	52	36	18	12	6	4	4
	C/D	50	24	18	10	7	3	3	2
MXBS9	A/B	117	56	42	21	14	7	5	5
	C/D	95	46	36	18	13	6	5	4
MXBS10	A/B	215	102	81	43	26	18	11	10
	C/D	256	158	123	65	40	27	18	14


ACCESSORIES ON REQUEST

- Inclined sleeve
- Earth stud
- Earth bar
- Hinges
- Mounting brackets



MXBJ

JUNCTION BOXES 350 A

- ▶  II 2 G D Ex e ia OR ib IIC
- ▶ IP66 WATER- AND DUST-TIGHT
- ▶ GLASS REINFORCED, GRAPHITE-FILLED POLYESTER RESIN ENCLOSURES

These junction boxes are designed with reinforced polyester resin with fibreglass and graphite loaded, and are designed for making electrical connections in hazardous areas. They provide increased safety and intrinsic safety, allowing them to be used in zones 1 & 2 (gas), 21 & 22 (dust). This comprehensive range is also ideal for wet environments – such as food and beverage or chemical industries – thanks to their corrosion resistance.

TECHNICAL FEATURES

ELECTRICAL FEATURES

Maximum voltage*	750 V
Maximum nominal current*	350 A
Flexible or stranded wiring (min - max)*	0,2 - 240 mm ²

* depending on the type of terminal connection

Cable entries	M12 to M63
---------------	------------






THERMAL SPECIFICATION

Temperature range and ratings	From -55 °C to +60 °C From -55 °C to +40 °C (T ₆ = 85 °C surface temperature) From -55 °C to +55 °C (T ₅ = 100 °C surface temperature) From -55 °C to +60 °C (T ₄ = 135 °C surface temperature)
-------------------------------	---

MECHANICAL FEATURES

Degree of protection	IP66
Shock resistance	IK09 according to IEC and EN 62 262.
Material	Casing made of polyester resin reinforced with fibreglass and graphite loaded Stainless steel screws

ATEX MARKINGS

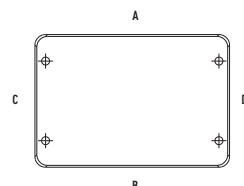
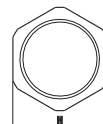
ATEX zones	Gas and Dust : zones 1 & 2, 21 & 22
ATEX markings	 II 2 G D Ex e II T ₄ to T ₆ Ex tD A21 increased safety  2 G D Ex ia IIC T ₆ tD A21 or  II 2 G D Ex ib IIC T ₆ tD A21 intrinsic safety  2 G D Ex e ia IIC T ₆ tD A21 or  II 2 G D Ex e ib IIC T ₆ tD A21 increased safety and intrinsic safety

Standards compliance	IEC EN 60079-0, 60079-1, 60079-7, 60079-11 and 60079-31
----------------------	---

Certificates	Certificates IECEx N° IECEx LCI 11.0026 and ATEX N° LCIE 11 ATEX 3028
--------------	---

ACCESSORIES ON REQUEST

- Earth stud
- Earth bar
- Shield bar
- Junction bar
- Hinges
- Mounting brackets





SPECIFICATION

Junction boxes IP66 for hazardous areas (ATEX).

CONDUCTORS CROSS-SECTION : NUMBER OF TERMINALS / In MAX (A)

Box	1.5 mm ²		2.5 mm ²		4.5 mm ²		6 mm ²		10 mm ²		16 mm ²	
	Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max
MXBJ1	14 10	13 A 15 A	14 7	15 A 20 A	11 5	18 A 25 A	-	-	-	-	-	-
MXBJ2	19 11	12 A 15 A	15 9	15 A 20 A	15 7	17 A 25 A	13 6	22 A 32 A	10 4	31 A 45 A	7 3	43 A 65 A
MXBJ3	42 11	8 A 15 A	34 9	10 A 20 A	34 7	11 A 25 A	29 6	15 A 32 A	22 4	21 A 45 A	17 3	28 A 65 A
MXBJ4	28 15	11 A 15 A	23 11	14 A 20 A	23 9	15 A 25 A	19 7	20 A 32 A	14 6	29 A 45 A	11 4	39 A 65 A
MXBJ5	76 17	7 A 15 A	61 14	9 A 20 A	61 12	11 A 25 A	51 11	14 A 32 A	39 8	21 A 45 A	31 5	28 A 65 A
MXBJ6	102 16	6 A 15 A	82 13	8 A 20 A	82 12	9 A 25 A	70 12	12 A 32 A	52 8	17 A 45 A	42 5	23 A 65 A
MXBJ7	170 20	5 A 15 A	138 17	7 A 20 A	138 15	8 A 25 A	116 13	11 A 32 A	86 11	16 A 45 A	35 7	30 A 65 A
MXBJ8	264 17	4A 15 A	214 15	5 A 20 A	214 14	6 A 25 A	180 12	8 A 32 A	136 10	12 A 45 A	54 7	23 A 65 A
MXBJ9	255 27	5 A 15 A	207 24	6 A 20 A	207 11	8 A 25 A	174 19	10 A 32 A	129 15	15 A 45 A	70 10	25 A 65 A
MXBJ10	402 35	4 A 15 A	324 30	6 A 20 A	324 28	7 A 25 A	273 25	9 A 32 A	136 20	17 A 45 A	110 14	23 A 65 A

Box	25 mm ²		35 mm ²		50 mm ²		70 mm ²		95 mm ²		120 mm ²	
	Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max
MXBJ4	7 3	62 A 85 A	7 2	71 A 105 A	-	-	-	-	-	-	-	-
MXBJ5	21 5	43 A 85 A	21 2	47 A 105 A	6 3	105 A 130 A	5 2	123 A 170 A	-	-	-	-
MXBJ6	14 5	51 A 85 A	12 3	60 A 105 A	10 4	89 A 130 A	-	-	-	-	-	-
MXBJ7	23 7	46 A 85 A	23 5	50 A 105 A	18 6	80 A 130 A	9 3	105 A 170 A	-	-	-	-
MXBJ8	36 6	36 A 85 A	36 5	39 A 105 A	28 5	58 A 130 A	9 3	102 A 170 A	6 2	140 A 205 A	-	-
MXBJ9	23 9	55 A 85 A	22 7	61 A 105 A	18 9	93 A 130 A	16 4	93 A 170 A	-	-	-	-
MXBJ10	27 13	59 A 85 A	35 10	57 A 105 A	28 9	80 A 130 A	25 6	88 A 170 A	22 5	105 A 205 A	18 5	149 A 235 A

Box	150 mm ²		185 mm ²		240 mm ²	
	Nr	In Max	Nr	In Max	Nr	In Max
MXBJ10	18 4	150 A 265 A	15 4	197 A 305 A	10 5	254 A 350 A

MAXIMUM NUMBER OF POLYESTER CABLE GLANDS PER SIDE : idem MXBS

B2X

JUNCTION BOXES



- ▶ II2 G D Ex e IIC
- ▶ UP TO 750 V
- ▶ IP66/IP67 WATER- AND DUST-TIGHT
- ▶ EQUIPPED WITH TERMINALS AND/OR SOCKET-OUTLETS



This range is equipped with CRIC increased safety 'e' terminal blocks and cable glands and complies with the 94/9/CE Directive. All external fastening accessories are in stainless steel.

SPECIFICATION

Junction boxes IP66/IP67 with increased safety «e» for hazardous areas (ATEX), comply with BECMA international standard.

MAIN FEATURES

Maximum voltage a.c.	750 V
Ambient temperature	-40 °C to +60 °C
Protection mode	e
Protection	IP66/IP67
ATEX zones	1 & 2, 21 & 22
Dimensions (H x L x P)	173 x 173 x 118 mm



This box can be equipped with:

- Two DXN1 with 30° inclined sleeve, or
- One DXN1 and one DXN3 with 30° inclined sleeves.

Standards compliance

- The European ATEX 94/9/CE Directive
- IEC EN 60079-0, IEC EN 60079-7, IEC EN 61241-0, IEC EN 61241-1 et IEC EN 60079-31

Junction

Three kinds of increased safety 'e' terminal blocks are available:

- 20 A : 3 x 4 mm² max. per terminal block
- 40 A : 3 x 10 mm² max. per terminal block
- 70 A : 3 x 25 mm² max. per terminal block

(one M40 cable gland maximum per side)

Boxes fitted with terminals only

MARECHAL ELECTRIC MAROMME

II2 G D Ex e II tD A21
-40 °C ≤ Ta ≤ +60 °C T6 T85 °C
LCIE 05 ATEX 6128

Boxes fitted with terminals + DXN

MARECHAL ELECTRIC MAROMME

II2 G D Ex e II tD A21
-40 °C ≤ Ta ≤ +60 °C T4 T130 °C
LCIE 05 ATEX 6128



A WIDE RANGE OF TECHNOLOGICALLY ADVANCED PRODUCTS

- ▶ SAFETY OF PEOPLE
- ▶ EQUIPMENT AND INFRASTRUCTURE IN POTENTIALLY EXPLOSIVE ATMOSPHERE

TECHNOR is a worldwide technology company of MARECHAL ELECTRIC GROUP, with operational businesses in Italy, United Arab Emirates and Singapore. TECHNOR has a high level of experience in developing and designing Ex equipment for most applications.

The company main markets are within Oil & Gas and Petrochemical Industries.

Products enable safe transport and application of electric signals and power in potentially explosive atmospheres.

The core business is in the electrical, instrumentation and electronics fields.

All the equipment for use in explosive atmosphere satisfy the requirements of international and national regulations (Atex, IECEx and Gost) and each individual systems' component is certified in accordance with specific Ex-certification requirements.

■ LIGHTING

RMS... SERIES  IP66/IP67, Ex-nA, Ex-de Fluorescent Lights



Ideal for Onshore and Offshore, Marine applications and for all kinds of industry where a high level of corrosion resistance is required. Stainless steel AISI-304 or AISI-316L body, glass tempered window and glass-frame done in one unit without welding.

EVF-P  Ex-de, Ex-em Fluorescent Lights



Fluorescent luminaries manufactured with cylindrical polycarbonate lamp housing and two end-cups in Copper free aluminium. The high resistance polycarbonate light housing is made of 3 different layers extrusion with UV filter to grant the best possible protection against direct sun heating and radiation effects. Shape has been designed to minimize wind resistance. Suitable for marine environment conditions.

EVde...  Ex-de, Discharge Lighting Fixtures



Range of built in control gear HID lighting fixtures, for general lighting applications, providing Ex-e junction box, adjustable SS AISI 304 mounting bracket suitable for universal installation, facilitate mounting and maintenance. Compact design in aluminium grade body, for onshore and offshore applications.

FL...  Ex-de, Discharge Floodlights



HID floodlight, for general lighting application, platform installation, cranes, providing integral looping facility Ex-e junction box, stainless steel adjustable fixing bracket, built in ballast, internal anti condensation paint, compact design in aluminum grade body as well as stainless steel, for onshore and offshore installation.



■ FLAMEPROOF ENCLOSURES

GUB..., EJB... Ex-d IIB, IIB+H2 and IIC Enclosure



Large range of enclosures manufactured in Copper free aluminium, Cast Iron or Stainless steel. Ideal for instrument housing, control, check, connection, automation, interruption and/or protection use. They can be equipped with pushbuttons, pilot lamps and selector switches. Enclosures can be customized project by project to get control panel, lighting distribution boards, heat tracing distribution boards, motor starters, as well as, assembled together, or mounted on a self supporting frame, generate switch-rack for onshore and offshore applications.

■ JUNCTION BOXES

AQ-AR... Ex-e and Ex-ia Enclosure



The AQ/AR range of stainless steel AISI-316L enclosure used as instrument and electrical terminal boxes, as well as control panels equipped with push button and switches, all designed for use in any environment where an explosive atmosphere may be present and are especially recommended for chemical agent environments, sea-water corrosion resistance and extremis of low and high temperature, offshore and onshore oriented.

■ CONTROL STATIONS

CP... /EF... Ex-d, Ex-e, Ex-de, Ex-dem Control Station



Range of GRP, Copper free aluminium or Stainless Steel control stations designed to offer a flexible, light weight and cost effective solution tailor made upon customer request. To be assembled with Ex-de operators in case EF.. Ex-de version and with PL.. operators in case of CP.. Ex-d version.

■ VISUAL SIGNAL

AWL... SERIES EV-de Ex-d, Ex-de IIC Warning Lights



The top of technology among Aircraft Warning Lights, LIOL, MIOL with LED technology, reliable long life and maintenance saving products, in compliance with ICAO and FAA, along with signalization unit like beacons, flashing unit, rotating light.

■ CABLE GLANDS & ACCESSORIES

P..., Ex-d/e Cable Glands



Single seal, double seals cable glands, suitable for unarmored and armored cables. Nickel-chrome plated brass, stainless steel and aluminum made, hexagon shape, anti-ageing EPDM oil resistant gaskets. These cable glands are used in classified Area Zone 1 & 2 and Zone 21 & 22.

EXPLOSION-PROOF PRODUCTS




INTRODUCTION

Particular standards and Directives apply when flammable gases, vapours or dusts are likely to be present in the environment and cause an explosion (referred to as «hazardous areas»).

Plugs and socket-outlets intended to operate in such environments must have obtained a certificate of conformity to these standards from an official test house, assuring that they will not cause a fire or an explosion in the surrounding atmosphere.

Standards

- IEC/EN 60079-0: Products for use in explosive gas atmospheres - General rules
- IEC/EN 60079-1: Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures “d”
- IEC/EN 60079-7: Explosive atmospheres - Part 7: Equipment protection by increased safety “e”
- IEC/EN 60079-31: Explosive atmospheres - Part 31: equipment protection against ignition of dust by enclosure “t”.

Products complying with these requirements bear the  symbol and the marking 'Ex'.


Directives

In Europe, two Directives apply to explosion-proof products:

ATEX 94/9/CE DIRECTIVE (EXPLOSIVE ATMOSPHERES)

Since July 1st 2003, manufacturers may only sell products that comply with the ATEX 94/9/CE Directive. This Directive sets the essential safety requirements and imposes a classification of the products in categories, depending on their level of protection. A distinction is now made according to the nature of the explosive atmosphere: gas or dust.

This Directive requires:

- For products: a type certification, a declaration of conformity and an instruction manual, allowing to affix the  marking,
- For the manufacturers: a quality assurance system audited annually by a notified body, and the appointment of an authorised person called the ATEX Manager.

1999/92/CE DIRECTIVE

Since July 1st 2003, this Directive imposes on users of explosion-proof products:

- To evaluate the risk of explosion on their site, to define zones and to implement minimum guidelines to ensure workers' safety,
- To purchase only products according to ATEX 94/9/CE Directive for new installations as well as extensions to existing installations.

Products designed according to the **harmonised standards** are deemed to comply with the essential safety and health requirements set forth in the ATEX Directive.

Protection mode(s)

Depending on the type of product, there are several modes of protection intended to prevent explosion: increased safety “e”, internal overpressure “p”, oil immersion “o”, flameproof chamber enclosure “d”, powder filling “q”, encapsulation “m”, etc.

Whatever the protection mode(s), products intended to operate in potentially explosive atmospheres must:

- Prevent the formation of an arc likely to cause an explosion or contain inflammation,
- Resist shocks, to a higher degree than usually is required for normal industrial products,
- Not be likely to accumulate electrostatic charges that may generate a spark,
- Have, within an ambient temperature range of at least -20 °C / +40 °C, a surface temperature below the self ignition temperature of the surrounding atmosphere or that of the layer of dust that may have accumulated on the equipment.

Protection mode for plugs and socket-outlets

Plugs and socket-outlets with integral switching include two distinct areas, that require the implementation of two different modes of protection:

- An area which contains the contacts used to establish and break the current and where arcs or sparks occur in normal operation when a plug is inserted or withdrawn. This area requires a “d” flameproof chamber in order to contain the arc, to resist the overpressure of an internal explosion and to laminate the flame of this explosion so that it does not propagate to the surrounding atmosphere,
- Areas where there are no arcs or sparks, where conductors are connected to the plug and socket-outlet terminals. These areas use the mode of protection increased safety “e”, to prevent any failure.

Plugs and socket-outlets without integral switching

use the sole mode of protection by increased safety “e”. They are fitted with a locking device and warning labels to prevent any accidental disconnection under load. The outer enclosure and seal also provide increased safety “e”.

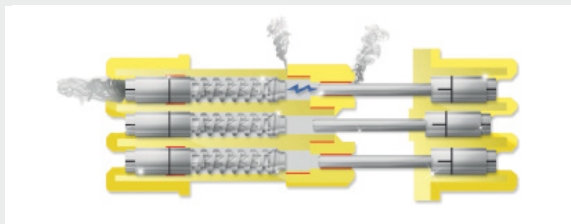
“d” FLAMEPROOF ENCLOSURE

The arc chamber that contains the contacts used to make and break the circuit must constitute an flameproof enclosure, resisting the effects of a possible internal explosion. IEC 60079-1 standard defines the characteristics of such a ‘d’ flameproof chamber that must:

- Resist the pressure of an explosion,
- Allow this pressure to escape through interstices precisely rated in length and thickness, in order to extinguish the flame so that it cannot reach the outside of the enclosure.



These safety experimental maximum interstices, also called flamepath, are defined according to the explosive substance and the internal volume of the enclosure.




DXN1 plug and socket-outlet interior mouldings and contacts: the various flamepaths (in red) extinguish the flame and allow expulsion of burnt gases in case of an explosion when an arc strikes.

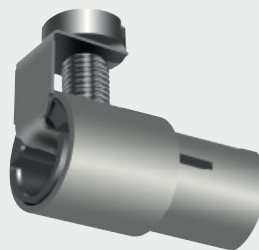
E.g.: in an environment that may contain Acetylene and with an inner volume less than to 100 cm³, the minimum length of the cylindrical flamepath is 6 mm and the maximum interstice is 0.1 mm.

“e” increased safety


The expensive requirements of the “d” mode of protection are not necessary for the parts of the product where conductors are terminated on the plug side and socket-outlet side as well as for plugs and socket-outlets that are not likely to create a spark. Particular precautions, for increased safety “e” equipment, are anyhow required in order to:

- Provide proper termination of cables in the enclosures,
- Not to damage conductors on tightening and to prevent the loosening of terminals in case of shock, vibration, thermal cycling or conductor yielding,
- Prevent short-circuits by defining air and creepage distances larger than those required from industrial products.
- provide a degree of protection IP54 minimum.

Plugs and socket-outlets, which combine flameproof “d” chambers for the switching of contacts and increased safety for cables and conductors termination, are identified by the symbol  **Ex de**.



DXN: a captive pad protrudes into the terminal chamber to protect the strands of the conductors from contact with the tightening screw

Plugs and socket-outlets whose sole mode of protection is increased safety are identified by the symbol  **Ex e**.

PROTECTION MODE ‘tD’ OR ‘t’ AGAINST DUST



Plugs and socket-outlets intended for use in the presence of flammable dust, either in suspension or accumulated, must be protected against dust ingress. They must bear details of their maximum surface temperature, in a given range of ambient temperatures (Ta), taking into account the layer of dust that may accumulate.

This mode of protection by dust-proof enclosure is identified by the symbol tD A21 (formerly DIP: Dust Ignition Proof) completed by the IP rating.

Example of marking: Ex tb IIIC T66 °C Db
IP66

-40 °C ≤ Ta ≤ +60 °C.

Product Groups

Electrical products are classified according to the inner volume of their explosion-proof chamber, if any, and the dimensions of their flame path, in group I, IIA, IIB, IIC, IIIA, IIIB and IIIC, and according to chemical products and gases having similar explosive characteristics.


- Plugs and socket-outlets of Group I are suitable for firedamp mines (natural methane) in underground applications.
- Plugs and socket-outlets of Group II are intended for surface industry applications. Group II gases are divided into IIA, IIB and IIC, corresponding to a decreasing tolerance of the flame path in such a way that a IIC product is automatically suitable for groups IIA and IIB.
 - Group IIA: Accessories intended to operate in presence of the less explosive substances: industrial methane, propane, butane, benzene, kerosene, gasoline, ethanol, acetone ...
 - Group IIB: ethylene, methacrylate, cyclopropane ...
 - Group IIC: Accessories intended to operate in presence of the most explosive substances: hydrogen, acetylene, ethyl nitrate ...
- Plugs and socket-outlets of Group III are designed for dust surface explosive atmospheres. Group III is subdivided into IIIA, IIIB and IIIC corresponding to the characteristics of the explosive dust atmosphere. A IIIC equipment is suitable for IIIB and IIIA applications and a IIIB equipment is suitable for IIIA applications.
 - Subdivision IIIA: combustible particles in suspension.
 - Subdivision IIIB: non-conductive dust.
 - Subdivision IIIC: conductive dusts.


The marking of Ex "de" products (DXN, DX, PX) is completed by the indication of their gas group, according to their flame path and inner volume, e.g. **Ex de IIC**. The marking of "e" products (PXN12C, DXN25C, DXN37C, SPeX, MXBS, MXBJ) is also completed by an indication of their group. e.g. **Ex e II**. They can be used in the presence of all gases (except natural methane in mines that requires group I certified equipment).

Product categories and explosive zones

There are three categories of devices corresponding to six explosive areas and 6 levels of EPL, gas or dust zones:

- **Products in category 1** are intended for Zone 0 (gas) and/or Zone 20 (dust): zones with a permanent explosive atmosphere. EPL level Ga and Da. These zones cannot be equipped with socket-outlets.
- **Products in category 2** are intended for Zone 1 (gas) and/or Zone 21 (dust): zones where an explosive atmosphere is likely to appear in normal

operation. EPL level Gb and Db. These zones can be equipped with  socket-outlets.

- **Products in category 3** are intended for Zone 2 (gas) and/or Zone 22 (dust): zones where an explosive atmosphere may only appear accidentally, in case of malfunction of the installation. EPL level Gc and Dc. These zones can also be equipped with  socket-outlets.



Considering the increasing risk, products of category 2 can be used where products of category 3 are required. The marking on the product is completed by the indication of their permitted zones.

E.g.: 2G = zones 1 et 2
3D = zone 22
2G D = zones 1, 2, 21 et 22

PRODUCT CATEGORY According to 94/9/CE Directive	ZONES	
	Flammable gas, vapour or mist	Cloud of flammable dust
Category 1: Permanent or frequent presence Ga and Da	Zone 0 No socket-outlet	Zone 20 No socket-outlet
Category 2: Occasional (normal) presence Gb and Db	Zone 1 2G or 2G D socket-outlet	Zone 21 2G or 2G D socket-outlet
Category 3: Irregular / short term presence (abnormal) Gc and Dc	Zone 2 3G or 3G D socket-outlet	Zone 22 3G or 3G D socket-outlet

Ex II G D means that the accessory can be used in zones 1, 2, 21 & 22

Gas Temperature classes

All chemicals listed in the various groups have a specific self-ignition temperature. Electrical products must bear details of their maximum temperature, in a specified maximum ambient temperature (Ta). Indication is given by a capital "T" followed by a number from 1 to 6, in decreasing order of temperature:

Category	Maximum surface temperature
T6	≤ to 85 °C*
T5	≤ to 100 °C
T4	≤ to 135 °C
T3	≤ to 200 °C
T2	≤ to 300 °C
T1	< to 450 °C

* As an example, a T6 classification at 40 °C means that the maximum heating will be 40 K with 5 K safety margin, in an ambient temperature of 40 °C. The maximum temperature of the device must be less than the temperature of self-ignition of the gas found in the hazardous area. Dust surface temperature marking

Flammable dust have specific self-ignition temperatures.

Electrical products must bear the indication of their maximum surface temperature, in a specified maximum ambient temperature [Ta]. This temperature takes into account the layer of dust likely to accumulate on the accessory. Indication is given by a capital "T" followed by the surface temperature in °C, to distinguish it from the gas temperature class, e.g.: T107 °C.

Example of marking for a DXN1

Listed manufacturer and production site

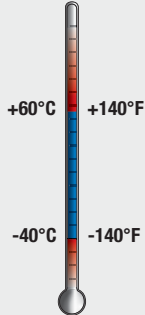
MARECHAL ELECTRIC MAROMME

Ex II2 G D Ex de IIC tD A21

-40 °C ≤ Ta ≤ +60 °C T5 T90 °C

-40 °C ≤ Ta ≤ +40 °C T6 T70 °C













IECEx LCI 09.0005X / LCIE 99 ATEX 6027 X








<p>Ex Product intended for explosive atmospheres</p> <p>II Product of group II = surface industry applications</p> <p>2 Product of category 2 = for zones 1 and/or 21</p> <p>G D Nature of atmosphere: G: Gas and D: Dust</p> <p>Ex Protection against explosions Gas standards: IEC/EN 60079-0, -1 & -7 Dust standards: IEC/EN 60079-31, IEC/EN 61241-0 & -1</p> <p>de Combined protection mode d & e d: flameproof enclosure (IEC/EN 60079-0 & -1) e: increased safety (IEC/EN 60079-0 & -7)</p> <p>IIC Product of group IIC: (Hydrogen, acetylene, ethyl nitrate)</p> <p>tD Mode of protection against dust: tD = protection by enclosure</p> <p>A21 IP test for zone 21: IP6X</p>	<p>T5/T6 Gas surface temperature T6 : ≤ 85 °C with Ta between -40 °C and +40 °C T5 : ≤ 100 °C with Ta between -40 and +60 °C</p> <p>T °C Dust surface temperature Surface T° ≤ 70 °C with Ta between -40 °C & +40 °C Surface T° ≤ 90 °C with Ta between -40 °C & +60 °C</p> <p>LCIE 99 ATEX 6027 X ATEX certificate number provided by notified body (LCIE-Veritas)</p> <p>IECEx LCI 09.0005 X Certificate of conformity to IEC standards (Certification scheme IECEx)</p> <p>X Indication of particular condition(s) of use, if any</p>	
--	---	--

This marking is completed with the following indications (e.g.: DXN3 sticker):

Type - Part number	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">DXN3</td> <td style="text-align: center;">2534017972</td> </tr> <tr> <td style="text-align: center;">3P+N+T</td> <td style="text-align: center;">+2AUX.</td> </tr> <tr> <td style="text-align: center;">Ue 400 V 50Hz</td> <td style="text-align: center;">550V</td> </tr> <tr> <td style="text-align: center;">Ie 32A</td> <td style="text-align: center;">5A</td> </tr> <tr> <td style="text-align: center;">CE</td> <td style="text-align: center;">IP66/IP67</td> </tr> <tr> <td style="text-align: center;">0081</td> <td style="text-align: center;">19/11</td> </tr> </table>	DXN3	2534017972	3P+N+T	+2AUX.	Ue 400 V 50Hz	550V	Ie 32A	5A	CE	IP66/IP67	0081	19/11	Contact configuration secondary circuit (if any)
DXN3	2534017972													
3P+N+T	+2AUX.													
Ue 400 V 50Hz	550V													
Ie 32A	5A													
CE	IP66/IP67													
0081	19/11													
CE marking = compliance with European Directives - Identification of the notified body (0081 = Veritas LCIE)		IP rating Week / year of manufacture												

	ATEX	CEI	IECEx	cCSAus	Brasil	BV Marine	Corea	Russia
DXN1 20 A - 550 V - IP66/IP67	LCIE 99 ATEX 6027X	LCIE Ex 99.007X	IECEx LCI 09.0005X	(20 A)	INMETRO	BV MARINE	KGS KOREA	GOST
	MARECHAL ELECTRIC MAROMME  I12 G D Ex de IIC tD A21 -40 °C ≤ Ta ≤ +60 °C T5 T90 °C -40 °C ≤ Ta ≤ +40 °C T6 T70 °C IECEx LCI 09.0005X / LCIE 99 ATEX 6027 X		-40 °C ≤ Ta ≤ +60 °C Class I Zone 1 Ex de IIC T5 DIP A21 T90 °C Class I Zone 1 AEx de IIC T5 tD 21 T90 °C Class I div 2 Gr IIC (A,B,C,D) Class II div 2 Gr E,F,G cCSAus 208161-1144106X		 Ex de IIC Gb t IIIC Db -40 °C ≤ Ta ≤ +60 °C T5 T90 °C -40 °C ≤ Ta ≤ +40 °C T6 T70 °C BR 230026-X / BVC 10.0026-X			
DXN3 32 A - 750 V - IP66/IP67 DXN3 + 2aux 32 A - 550 V - IP66/IP67	LCIE 05 ATEX 6149	LCIE Ex 06.002	IECEx LCI 09.0006	(30 A)	INMETRO	BV MARINE	KGS KOREA	GOST
	MARECHAL ELECTRIC MAROMME  I12 G D Ex de IIC tD A21 -40 °C ≤ Ta ≤ +60 °C T5 T77 °C -40 °C ≤ Ta ≤ +40 °C T6 T57 °C IECEx LCI 09.0006 / LCIE 05 ATEX 6149		-40 °C ≤ Ta ≤ +60 °C Class I Zone 1 Ex de IIC T4 DIP A21 T98 °C Class I Zone 1 AEx de IIC T4 tD 21 T98 °C Class I div 2 Gr IIC (A,B,C,D) Class II div 2 Gr E,F,G cCSAus 208161-1144106X		 Ex de IIC Gb t IIIC Db -40 °C ≤ Ta ≤ +60 °C T5 T77 °C -40 °C ≤ Ta ≤ +40 °C T6 T57 °C BR 230024 / BVC 10.0024			
DXN6 63 A - 750 V - IP66/IP67 DXN6 + 2aux 63 A - 550 V - IP66/IP67	LCIE 05 ATEX 6150	LCIE Ex 06.003	IECEx LCI 09.0007	(60 A)	INMETRO	BV MARINE	KGS KOREA	GOST
	MARECHAL ELECTRIC MAROMME  I12 G D Ex de IIC tD A21 -40 °C ≤ Ta ≤ +60 °C T4 T107 °C -40 °C ≤ Ta ≤ +40 °C T5 T87 °C IECEx LCI 09.0007 / LCIE 05 ATEX 6150		-40 °C ≤ Ta ≤ +60 °C Class I Zone 1 Ex de IIC T5 DIP A21 T100 °C Class I Zone 1 AEx de IIC T5 tD 21 T100 °C Class I div 2 Gr IIC (A,B,C,D) Class II div 2 Gr E,F,G cCSAus 208161-1144106X		 Ex de IIC Gb t IIIC Db -40 °C ≤ Ta ≤ +60 °C T4 T107 °C -40 °C ≤ Ta ≤ +40 °C T5 T87 °C BR 230025 / BVC 10.0025			
DX1 20 A - 750 V - IP65 DX3 32 A - 750 V - IP65	LCIE 05 ATEX 6127	LCIE Ex 08.009	IECEx LCI 09.0014	Certification in process	-	-	-	GOST
	MARECHAL ELECTRIC MAROMME  I12 G D Ex de IIC tD A21 -25 °C ≤ Ta ≤ +60 °C T5 T84 °C -25 °C ≤ Ta ≤ +50 °C T6 T74 °C IECEx LCI 09.0014 / LCIE 05 ATEX 6127							
DX6 63 A - 750 V - IP65 DX9 125 A - 750 V - IP65	LCIE 04 ATEX 6038	LCIE Ex 07.001	IECEx LCI 09.0015	Certification in process	-	-	KGS KOREA	GOST
	MARECHAL ELECTRIC MAROMME  I12 G D Ex de IIC tD A21 -40 °C ≤ Ta ≤ +60 °C T5 T90 °C -40 °C ≤ Ta ≤ +50 °C T6 T80 °C IECEx LCI 09.0015 / LCIE 04 ATEX 6038							
DX2 200 A - 750 V - IP65								
	MARECHAL ELECTRIC MAROMME  I12 G D Ex de IIC tD A21 -40 °C ≤ Ta ≤ +60 °C T3 T91 °C IECEx LCI 09.0015 / LCIE 04 ATEX 6038							
SPeX 680 A - 1000 V - IP65/IP66	LCIE 07 ATEX 6073X	LCIE Ex 07.012X	-	-	-	BV MARINE	-	GOST
	MARECHAL ELECTRIC MAROMME  I12 G D Ex e IIC T*Gb Ex tb IIIC T*Db IECEx LCI 12.0005 X / LCIE 07 ATEX 6073 X *See certificate for further markings							
DXN37C 10 A - 230 V - IP66/IP67	LCIE 07 ATEX 6071X	LCIE Ex 07.011X	-	-	-	-	-	GOST
	MARECHAL ELECTRIC MAROMME  I12 G D Ex e IIC T*Gb Ex tb IIIC T*Db Ex ia ou ib IIC T6 Gb * -40 °C ≤ Ta ≤ +55 °C T5 T76 °C -40 °C ≤ Ta ≤ +40 °C T6 T56 °C LCIE Ex 07.011 X / LCIE 07 ATEX 6071 X IECEx certification in progress							
DXN25C 10 A - 440 V - IP66/IP67	LCIE 09 ATEX 3050X	LCIE Ex 09.003X	-	-	-	-	-	GOST
	MARECHAL ELECTRIC MAROMME  I12 G D Ex e IIC T*Gb Ex tb IIIC T*Db Ex ia ou ib IIC T6 Gb * -40 °C ≤ Ta ≤ +60 °C T5 T71 °C -40 °C ≤ Ta ≤ +40 °C T6 T51 °C LCIE Ex 09.003 X / LCIE 09 ATEX 3050 X IECEx certification in progress							

	ATEX	CEI	IECEX	cCSAus	Brasil	BV Marine	Corea	Russia
PXN12C 10 A - 220 V- IP65/IP66	LCIE 07 ATEX 6070X	LCIE Ex 07.010X	-	-	-	-	-	GOST
<p style="text-align: center;">MARECHAL ELECTRIC MAROMME</p> <p style="text-align: center;">  II2 G D Ex e IIC T5 Gb Ex tbIIIC T69 °C Db Ex ia ou ib IIC T6 Gb -40 °C ≤ Ta ≤ +55 °C LCIE Ex 07.010 X / LCIE 07 ATEX 6070 X </p> <p style="text-align: center;">IECEX certification in progress</p>								
B2X 750 V- IP66/IP67	LCIE 05 ATEX 6128	-	-	-	-	-	-	-
<p style="text-align: center;">Box fitted with terminals only :</p> <p style="text-align: center;">MARECHAL ELECTRIC MAROMME</p> <p style="text-align: center;">  II2 G D Ex e II tD A21 -40 °C ≤ Ta ≤ +60 °C T6 T85 °C LCIE 05 ATEX 6128 </p> <p style="text-align: center;">Box fitted with terminals + DXN :</p> <p style="text-align: center;">MARECHAL ELECTRIC MAROMME</p> <p style="text-align: center;">  II2 G D Ex e II tD A21 -40 °C ≤ Ta ≤ +60 °C T4 T130 °C LCIE 05 ATEX 6128 </p>								
MXBS 63 A - 750 V- IP66	LCIE 11 ATEX 3047	-	IECEX LCI 11.0042	-	-	-	-	-
<p style="text-align: center;">MARECHAL ELECTRIC MAROMME</p> <p style="text-align: center;">TYPE MXBS</p> <p style="text-align: center;">  II2 G D Ex e II tD A21 -40 °C ≤ Ta ≤ +40 °C T6 to T4* -40 °C ≤ Ta ≤ +55 °C T5 to T4* -40 °C ≤ Ta ≤ +60 °C T4 IECEX LCI 11.0042 / LCIE 11 ATEX 3047 </p> <p style="text-align: center;">* Depending on the inside components and socket mix (consult us) Possibility of integrating intrinsic safety (consult us)</p>								
MXBJ 350 A - 750 V- IP66	LCIE 11 ATEX 3028	-	IECEX LCI 11.0026	-	-	-	-	-
<p style="text-align: center;">MARECHAL ELECTRIC MAROMME</p> <p style="text-align: center;">TYPE MXBJ</p> <p style="text-align: center;">  II2 G D Ex e II tD A21 -55 °C ≤ Ta ≤ +40 °C T6 T60 °C -55 °C ≤ Ta ≤ +55 °C T5 T75 °C -55 °C ≤ Ta ≤ +60 °C T4 T80 °C IECEX LCI 11.0026 / LCIE 11 ATEX 3028 </p> <p style="text-align: center;">Possibility of integrating intrinsic safety (consult us)</p>								

CONFIGURATOR & CATALOGUE

Fast, simple solutions at the click of a button!

Whatever your application requirements, find the right solution from the MARECHAL® range: marechal.com.

MARECHAL ELECTRIC SOLUTIONS APPLICATIONS COMPANY SHOWS CONTACT Search...

Search by feature
Search by feature enables you to get the list of products that meet the specifications of your installation.

Documentation
ACCESS TO DOCUMENTATION

Contact
For any other configuration or request for further information, please contact us:
contact@marechal.com

CGU | CGV

CONFIGURATOR
Quick and easy: change your specifications into products.

Search by feature
 Use in hazardous areas

PHASING	RATED CURRENT (A)	VOLTAGE (V)	AUXILIARY CONTACTS
<input type="checkbox"/> +	<input type="checkbox"/> 10A	<input type="checkbox"/> 24V	<input type="checkbox"/> +1AUX.
<input type="checkbox"/> -	<input type="checkbox"/> 16A	<input type="checkbox"/> 28V	<input type="checkbox"/> +2PIL+6AUX.
<input type="checkbox"/> N	<input type="checkbox"/> 20A	<input type="checkbox"/> 48V	<input type="checkbox"/> +2PIL+2AUX.
<input type="checkbox"/> E	<input type="checkbox"/> 25A	<input type="checkbox"/> 80V	<input type="checkbox"/> +6AUX.
<input type="checkbox"/> 1P	<input type="checkbox"/> 30A	<input type="checkbox"/> 125V	<input type="checkbox"/> +2PIL.
<input type="checkbox"/> 2P	<input type="checkbox"/> 32A	<input type="checkbox"/> 127V	<input type="checkbox"/> +2AUX.
<input type="checkbox"/> 3C	<input type="checkbox"/> 40A	<input type="checkbox"/> 130V	<input type="checkbox"/> +3AUX.
<input type="checkbox"/> 3P	<input type="checkbox"/> 45A	<input type="checkbox"/> 208V	<input type="checkbox"/> +4AUX.
<input type="checkbox"/> 4C	<input type="checkbox"/> 50A	<input type="checkbox"/> 220V	
<input type="checkbox"/> 5C	<input type="checkbox"/> 63A	<input type="checkbox"/> 230V	
<input type="checkbox"/> 6C	<input type="checkbox"/> 75A	<input type="checkbox"/> 250V	
<input type="checkbox"/> 7C	<input type="checkbox"/> 90A	<input type="checkbox"/> 277V	
<input type="checkbox"/> 8C	<input type="checkbox"/> 100A	<input type="checkbox"/> 347V	

MATERIAL

- METAL
- NEOPRENE
- POLY

MARECHAL ELECTRIC SOLUTIONS APPLICATIONS COMPANY SHOWS CONTACT Search...

Documentation

DOCUMENTATION

GENERAL CATALOGUE
FULL CATALOGUE
CATALOGUE BY RANGE

DOCUMENTATION BY APPLICATION
HAZARDOUS AREAS
INDUSTRIAL APPLICATIONS

TECHNICAL MANUAL

PRODUCTS SHEETS

CONFIGURATOR
DOCUMENTATION
CONTACT US

CONFIGURATOR
DOCUMENTATION
PRESS RELEASES
SHOWS

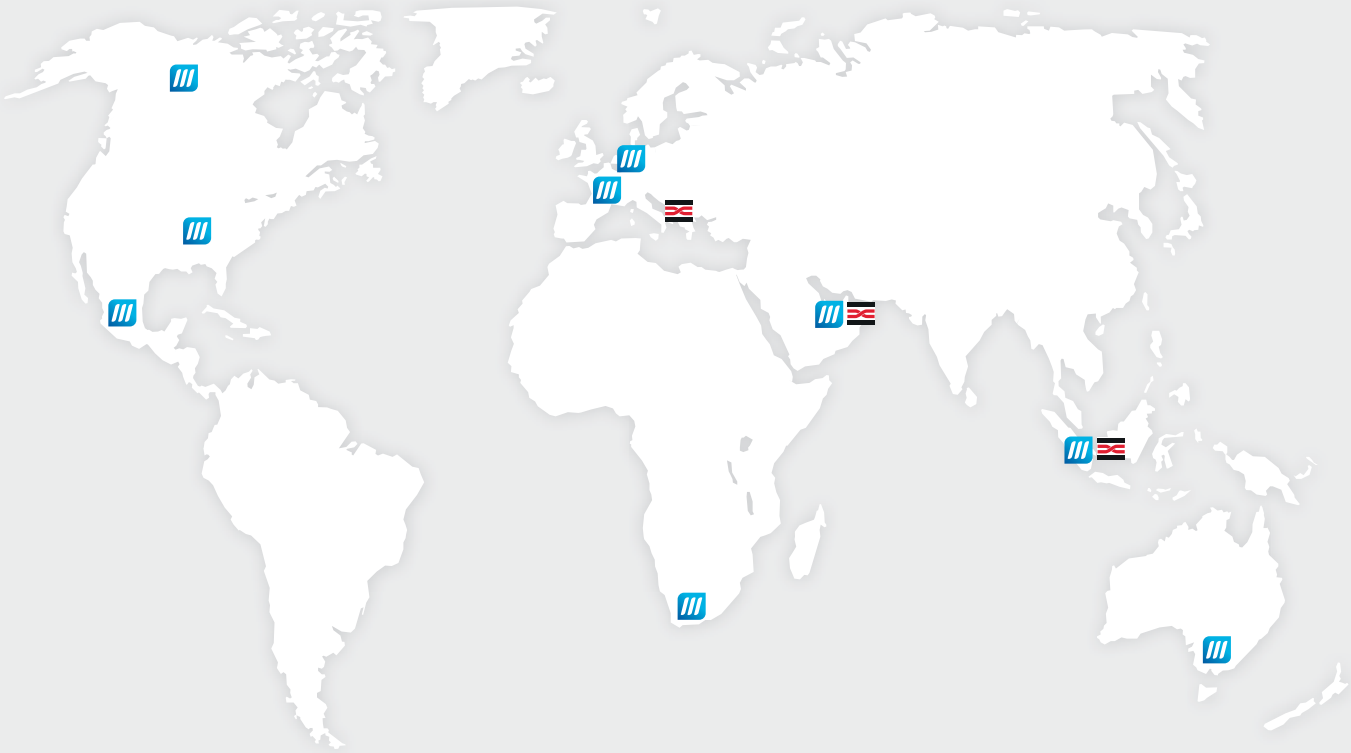
NEWS
CONNECTORS IN EXTREME OFF-A...
25-08-2013
MARECHAL ELECTRIC has developed the explosion-proof DXIN DECONTACTOR™ range of compact and watertight connectors as (...)
[Read more >>](#)

NON CONTRACTUAL DOCUMENT AND PICTURES

All the indications appearing in this catalogue are indicative and could not constitute a commitment on our part.

we reserve the right to alter specifications of our products without any prior notice in our efforts to continuously improve our products features.

MARECHAL ELECTRIC GROUP



HEAD OFFICE
5, avenue de Presles
94417 Saint-Maurice Cedex - France
Tel. : +33 (0)1 45 11 60 00
Fax : +33 (0)1 45 11 60 60
e-mail : contact@marechal.com

marechal.com

