



DXN

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

- ▶ II2 G D Ex de IIC, Ex tb IIIC
- ▶ 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 (2014/35/EU from April 20 2016). They can also 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 highlighted for easier identification. When installing the socket-outlet, ensure the switch button is positioned upwards.





SPECIFICATION

IP66/IP67 plugs and socket-outlets with «de» and «tb» protection mode for hazardous areas (ATEX) with integral load-break switching capacity, comply with MARECHAL® 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» and «tb» 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 (2014/35/EU from April 20 2016),
- 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, NANIO (TR CU EAC), NCC (INMETRO) and cCSAus (French, Russian, Brazilian and American-Canadian* European and international notified bodies) and by BUREAU VERITAS MARINE.

(*) for North-American markets





WALL BOX DXN1



Wall box poly 30°
251AB53



Socket-outlet
2514017



PLUG DXN1



Straight handle poly
251A753



Inlet
2518017

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 for an ambient T° between -40 and +40 °C
	T5 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.

SOCKET-
OUTLET female
DXN1 (20 A)



INLET male
DXN1 (20 A)



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

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

MARECHAL ELECTRIC MAROMME

Ex II 2 G D Ex de IIC T*Gb
Ex tb IIIC T*Db

* -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

BOXES

Ex poly cable gland included



**Wall box
poly 30°**



**120x120 wall box
poly 30° without
terminal blocks***



**120x120 wall box
poly 30° with 4mm²
terminal blocks****

Ex cable gland				
M20	251AB53	7-14 mm	251AB8820P	251A08820P
M25	251AB5325P	10-18 mm	251AB8825P	251A08825P
M32		17-24 mm	251AB8832P	

* With earth continuity + 1 hole with a poly cable gland. For alternatives, please contact us.

**With 2 holes (1 with a cable gland + 1 with a stopping plug), with 8+2E 4 mm² terminals blocks + 2,5 mm² wires, wiring 1 - 4mm².
For alternatives, please contact us.

SLEEVES



**Inclined
poly 30°**

251A057



**Inclined
poly 70°**

251A757

HANDLES

Ex cable gland included



**Straight poly
with poly cable gland**



**Straight poly
with metal cable gland with Earth continuity**

Ex cable gland				
M20	251A753	7-14 mm	251A25320M	8-10 mm
M25	251A25325P	10-18 mm	251A25325M	12-14 mm
M32	251A25332P	17-24 mm	251A25332M	18-24 mm

ACCESSORIES & OPTIONS

**Locking with shaft for 2 padlocks
ø 4-8 mm (padlocks not supplied)**

Socket no. + 843

Lockable plug: contact us



Box equipped with ATEX metal entry with Earth continuity.

Consult us

Inlet cap

251A426



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.





WALL BOX DXN3



PLUG DXN3



Wall box poly 30°
253AB53



Socket-outlet
2534017



Straight handle poly
253A753



Inlet
2538017

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 for an ambient T° between -40 and +40 °C

T5 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

SOCKET- OUTLET female DXN3 (32 A)



INLET male DXN3 (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.
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 (see page 10).

MARECHAL ELECTRIC MAROMME

Ex II 2 G D Ex de IIC T*Gb
Ex tb IIIC T*Db

* -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°**



**160x160 wall box
poly 30° without
terminal blocks***



**160x160 wall box
poly 30° with 10mm²
terminal blocks****

Ex cable gland				
M20	253AB53	7-14 mm	253AB8820P	253A08820P
M25	253AB5325P	10-18 mm	253AB8825P	253A08825P
M32		17-24 mm	253AB8832P	253A08832P

* With earth continuity + 1 hole with a poly cable gland. For alternatives, please contact us.

**With 2 holes (1 with a cable gland + 1 with a stopping plug), with 8+2E 10 mm² terminals blocks + 6 mm² wires, wiring 2.5 - 10mm².
For alternatives, 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 metal cable gland with Earth continuity**

Ex cable gland				
M20	253A753	7-14 mm	253A25320M	8-10 mm
M25	253A783	10-18 mm	253A25325M	12-14 mm
M32	253A25332P	17-24 mm	253A25332M	18-24 mm
M40	253A25340P	17-31 mm		

ACCESSORIES & OPTIONS

**Locking with shaft for 2 padlocks
ø 4-8 mm (padlocks not supplied)**

Socket no. + 843

Lockable plug: contact us



Box equipped with ATEX metal entry with Earth continuity.

Consult us

**Inlet cap
253A426**



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.





WALL BOX DXN6



PLUG DXN6



Wall box poly 30°
256AB53



Socket-outlet
2564017



Straight handle poly
256A753



Inlet
2568017

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 for an ambient T° between -40 and +40 °C T4 for an ambient T° between -40 and +60 °C
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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
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The essential safety requirements of IEC 60309-1	63 A / 750 V
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SOCKET-
OUTLET female
DXN6 (63 A)



INLET male
DXN6 (63 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.
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 (see page 10).

MARECHAL ELECTRIC MAROMME

Ex II 2 G D Ex de IIC T*Gb
Ex tb IIIC T*Db

* -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



**THORNE &
DERRICK**
INTERNATIONAL

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DXN

BOXES

Ex poly cable gland
included



**Wall box
poly 30°**



**160x160 wall box
poly 30° without
terminal blocks***



**160x160 wall box
poly 30° with 16mm²
terminal blocks****

Ex cable gland				
M20		7-14 mm	256AB8820P	256A08820P
M25	256AB53	10-18 mm	256AB8825P	256A08825P
M32		17-24 mm	256AB8832P	256A08832P
M40		17-31 mm	256AB8840P	256A08840P

INFOS +

In this configuration

-40 °C ≤ Ta ≤ +55 °C T4 T105 °C

-40 °C ≤ Ta ≤ +50 °C T5 T95 °C

* With earth continuity + 1 hole with a poly cable gland. For alternatives, please contact us.

**With 2 holes (1 with a cable gland + 1 with a stopping plug), with 8+2E 16 mm² terminals blocks + 16 mm² wires, wiring 6 - 16mm².
For alternatives, 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 métal cable gland with Earth continuity**

Ex cable gland				
M20	256A25320P	7-14 mm	256A25320M	8-10 mm
M25	256A753	10-18 mm	256A25325M	12-14 mm
M32	256A25332P	17-24 mm	256A25332M	18-24 mm
M40	256A25340P	17-31 mm		

ACCESSORIES & OPTIONS

**Locking with shaft for 2 padlocks
ø 4-8 mm (padlocks not supplied)**

Socket no. + 843

Lockable plug: contact us



Box equipped with ATEX metal entry with Earth continuity.

Consult us

**Inlet cap
256A426**



180° opening lid

Self-returning lid

180° opening and self-returning lid

Socket no. + 10

Socket no. + R

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.

