

# The DECONTACTOR™

## Plug & Socket + Switch



Press the release button  
to free the plug.  
(here a 90 A inline connector)

**The plug is safely  
disconnected**

Since 1953 MARECHAL Electric has been designing, manufacturing and selling plugs and sockets with an integral load-break isolating switch known as the decontactor.

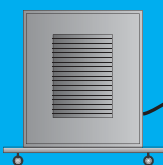
Equipment up to 250 A can potentially be connected and disconnected under load without any risk. A release button switches off the power before the plug can be retrieved. **There is no need for pilot wiring and contactor.**

### High quality materials

- Butt contacts in silver-nickel: outstanding conductivity and resistance to corrosion, vibration, shocks and temperature variation,
- Spring loaded elastic terminals: wiring resists vibration and temperature changes,
- Stainless steel fastenings,
- GRP casings are IK08 shock resistant. Metal casings are IK09 or IK10 ; UV resistant,
- Ambient temperature: -40 °C to +60 °C.

### End-user safety

- Offers 2 to 8 times as many operating cycles as required in EN 60309-1,
- Safe connection/disconnection even under short-circuit conditions,
- Resistance to current surges up to 8 x  $I_n$  for 1 minute,
- Optional pad-locking to prevent disconnection or access to socket when the plug is disconnected. In the event of emergency, an unqualified operator can easily and safely break a motor's power supply.



# Decontactors from 20 A to 250 A

The most common part numbers<sup>(1)</sup>

Wall mounting socket



Inclined socket



Coupler socket



Plug



## IP66/IP67 watertight

When the plug and socket are connected or the socket lid is closed, the connection is IP66/IP67. This seal is automatic.



<b>Active part:</b>	Socket	Socket	Socket	Inlet
<b>+ installation accessory:</b>	Wall box	Inclined sleeve	Handle	Handle

## DSN1 20 A - GRP casing - IP66/IP67

Voltage	Polarity	Part Number	Part Number	Part Number	Part Number
230 V	1P+N+E	61 14 015	61 14 015	61 14 015	61 18 015
	+ accessory :	61 1A 053	61 1A 027	61 1A 013	61 1A 013
400 V	3P+E	61 14 013	61 14 013	61 14 013	61 18 013
	+ accessory :	61 1A 053	61 1A 027	61 1A 013	61 1A 013
400 V *	3P+N+E	61 14 017 *	61 14 017 *	61 14 017 *	61 18 017
	+ accessory :	61 1A 053	61 1A 027	61 1A 013	61 1A 013

## DSN3 32 A - GRP casing - IP66/IP67

Voltage	Polarity	Part Number	Part Number	Part Number	Part Number
230 V	1P+N+E	61 34 015	61 34 015	61 34 015	61 38 015
	+ accessory :	61 3A 053	61 3A 027	61 3A 013	61 3A 013
400 V	3P+E	61 34 013	61 34 013	61 34 013	61 38 013
	+ accessory :	61 3A 083	61 3A 027	61 3A 013	61 3A 013
400 V *	3P+N+E	61 34 017 *	61 34 017 *	61 34 017 *	61 38 017
	+ accessory :	61 3A 083	61 3A 027	61 3A 013	61 3A 013

## DSN6 63 A - GRP casing - IP66/IP67

Voltage	Polarity	Part Number	Part Number	Part Number	Part Number
400 V	3P+E	61 64 013	61 64 013	61 64 013	61 68 013
	+ accessory :	61 6A 053	61 6A 027	61 6A 013	61 6A 013
400 V *	3P+N+E	61 64 017 *	61 64 017 *	61 64 017 *	61 68 017
	+ accessory :	61 6A 053	61 6A 027	61 6A 013	61 6A 013

## DS6 90 A - GRP casing - IP55

Voltage	Polarity	Part Number	Part Number	Part Number	Part Number
400 V	3P+E	31 64 013	31 64 013	31 64 013	31 68 013
	+ accessory :	31 6A 053	31 6A 027	31 6A 013	31 6A 013
400 V *	3P+N+E	31 64 017 *	31 64 017 *	31 64 017 *	31 68 017
	+ accessory :	31 6A 053	31 6A 027	31 6A 013	31 6A 013

## DS9 150 A - GRP casing - IP66/IP67

Voltage	Polarity	Part Number	Part Number	Part Number	Part Number
400 V	3P+E	31 94 013	31 94 013	31 94 013	31 98 013
	+ accessory :	39 9A 053	31 9A 027	659A013D35*	659A013D35*
400 V *	3P+N+E	31 94 017 *	31 94 017 *	31 64 017 *	31 98 017
	+ accessory :	31 9A 053	31 9A 027	659A013D35*	659A013D35*

\* D35 = Cable dia. 25 to 35 mm - D45 = Cable dia. 35 to 45 mm

## DS2 250 A - Metal casing - IP55

Voltage	Polarity	Part Number	Part Number	Part Number	Part Number
400 V	3P+E	39 24 013	39 24 013	39 24 013	39 28 013
	+ accessory :	39 2A 053	39 2A 027	39 2A 013 D45	39 2A 013 D45
400 V *	3P+N+E	39 24 017 *	39 24 017 *	39 24 017 *	39 28 017
	+ accessory :	39 2A 053	39 2A 027	39 2A 013 D45	39 2A 013 D45

\* 230 / 400 V 3pne dual voltage sockets

<sup>(1)</sup>Please contact us for other part-numbers: +33 (0) 1 45 11 60 00 (France) or +44 (0) 844 804 2066 (UK)

## Dual voltage socket

Reduce your cost of investment: a 230/400 V 3pne socket can take 3 different plugs and also an industrial/domestic adapter.



230 / 400 V Socket-outlet with 3P+N+E



400 V Plug with 3P+E



400 V Plug with 3P+N+E



230 V Plug with 1P+N+E



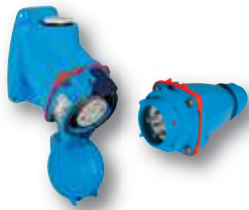
10/16 A - 230 V (1P+N+E)  
Industrial inlet +  
domestic socket-outlet

## Easy connection

Plug insertion made easy with standard closing handles on DS9 and DS2.



# Product ranges for other requirements:



## PN plug and socket

### Standard compact or high temperature plug and socket

PN plug and sockets are automatically IP66/IP67 when connected or when the lid is closed on the socket.

A high temperature version is also available.  
30 A – up to 500 V a.c. or 130 V d.c.



## DB DECONTACTOR™ for motors

### Separable AC-3 load-break motor-switches

The DB deconnectors replace a switch, a power connector and an isolator and simplify maintenance procedures for highly inductive pieces of equipment.

From 40 to 125 A – from 3 to 45 kW – AC-3  
Up to 690 V a.c. or 250 V d.c.



## Multicontacts

### Multipin connectors that allow for high number of operations

These connectors are used for control and signal purposes. Their robust design and butt contact technology allow for repeated operations in industrial applications.

From 5 to 37 contacts – from 5 to 25 A  
Up to 500 V a.c. or 130 V d.c.

(12, 25 & 37 contacts available in ATEX versions)



## DXN / DX Ex DECONTACTOR™

Compact, ATEX approved with 'de' rating. From 20 to 200 A



Compliant with ATEX directive 94/9/CE. Designed for zones 1 and 2 (gas) and zones 21 and 22 (dust).

From 20 to 200 A – up to 750 V a.c. or 250 V d.c.



## PF high current plugs and sockets

### Safe and reliable high performance plugs and sockets

IK10 shock resistant, automatically IP66/IP67, up to 8 auxiliary contacts available.

Durable contact technology. Easy and safe handling. Supply power to quarry machinery, public works equipment, ships, tunnelling equipment, stand-by gensets...

From 315 to 600 A, up to 1000 V a.c or 1000 V d.c.

## Better control over equipment

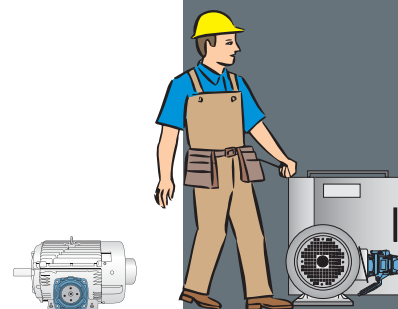


Most Maréchal plugs and sockets have optional auxiliary contacts. Connection of thermistor, control or signal is straightforward and does not require a separate connector.

## Motor connect and disconnect under load



With its silver-nickel butt contact technology, the deconnector is designed to withstand current surges induced by repeated motor start-ups or connection with jammed rotor.



## Downtime reduction

Supplying a motor via a deconnector instead of hardwiring simplifies maintenance and production reconfiguration. In case of replacement or maintenance, downtime is reduced because the equipment can be disconnected simply and safely via the deconnector by multi-skilled staff.

Mobile equipment can also be disconnected and repositioned quickly as production requires, without the need of an electrician.

# Plugs and socket-outlets for all environments, even your harshest ones :

MARECHAL Electric constantly innovates and improves its product offer, one of the broadest in the market.

Thanks to its unique technology, MARECHAL Electric is a preferred supplier to big name clients such as the French military, the Royal Air Force, EDF, Air Liquide, Alcan, Areva, Coca Cola, Exxon Mobil, Kraft Food, MacDonald's, Petrobras, Shell, Universal Studios, South-African Broadcasting Corporation, etc. Every day, MARECHAL technology brings high quality answers to demanding applications in various fields: construction, smelters, food and drink, ports, tunnel, film shooting, oil and gas exploration and extraction...



## Robust requirements

The mine and quarry environments combine problems of mechanical shock, climatic conditions and dust. Typically plugs and sockets have to be changed on a regular basis.

### **Decontactor advantage:**

*MARECHAL decontactors' metal or glassfibre reinforced polyester (GRP) casings resist shocks. Their silver-nickel contacts are corrosion resistant and withstand temperature changes (-40°C and +60°C)*

## High amperage equipment

Often plugs and sockets with high amperage are difficult to disconnect because of size and contact over-heating.

### **PF advantage:**

*MARECHAL's PF series plugs and sockets can handle up to 600A/1000V. Butt-contact technology allows easy connection and disconnection and silver-nickel contact tips guarantee superior conductivity and reliability regardless of climatic conditions.*

## Public safety

Sockets-outlets in public area can be misused and could lead to injuries for adults and children.

### **Decontactor advantage:**

*Access to the electrical contacts is protected by IP4X protection against foreign objects and hazardous parts. The socket-outlet contacts are kept clean and inaccessible even when the lid is opened.*

**MARECHAL**  
electric



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