

# POWER GENERATION



SWITCH RATED ELECTRICAL CONNECTORS  
FOR INDUSTRY

[marechal.com](http://marechal.com)

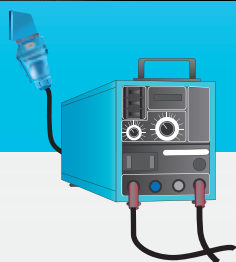
 **MARECHAL**  
ELECTRIC GROUP

# Connectors designed specifically for your plant operations

MARECHAL® DECONTACTOR™ series products combine the safety and function of a switch with the convenience of a plug and socket-outlet.

They are EN 60309-1 compliant for “motor circuit” and distribution switching and offer visible confirmation of disconnection.

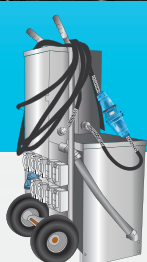
Key features, including silver-nickel butt contacts, enclosed arc chambers, socket-outlet with safety shutter and high short circuit ratings, ensure user safety and eliminate the potential for exposure to arc flash or live parts.



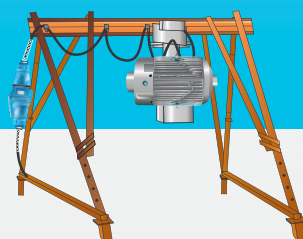
Welding  
machines



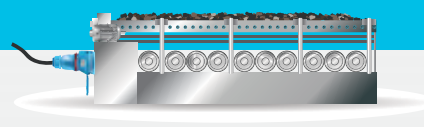
Downtime  
critical motors



Portable power  
distribution



Hoist  
connections



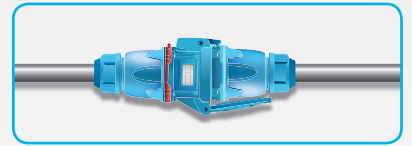
Modular  
conveyors



## Performance with cost savings

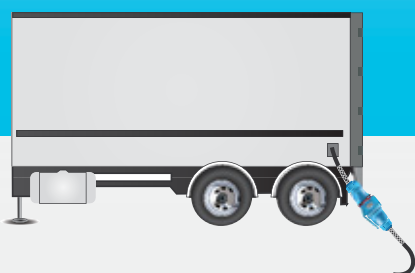
MARECHAL® DECONTACTOR™ series plugs and socket-outlets help power plants enhance safety and performance while also reducing equipment and labour costs. Their switching ability eliminates the expense of interlocks and auxiliary disconnect switches, and their flexible mounting configurations simplify installation.

DECONTACTOR™ unique combination of safety features and plug and play simplicity allows technicians to make and break quickly and easily electrical connections during equipment replacement. The electrical work can be performed efficiently in the workshop.



DECONTACTOR™ = Plug + Socket-Outlet + Switch

**MARECHAL®'s  
installed base  
includes nuclear,  
hydro, fossil fuel and  
“waste to energy”  
plants.**



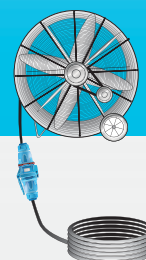
**Mobile  
facilities**



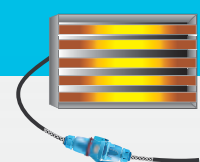
**Portable  
generators**



**Pumps**



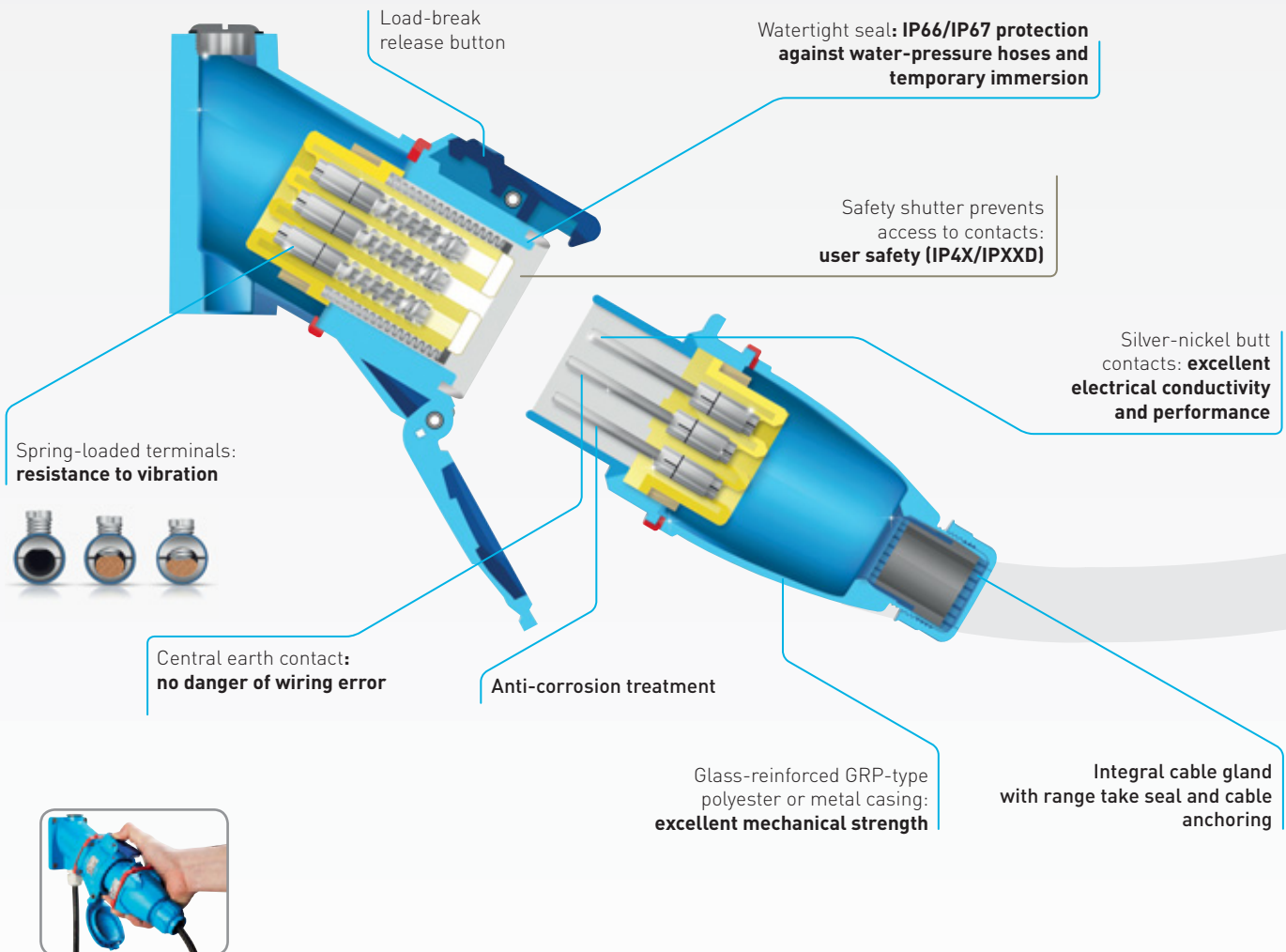
**Fans and  
cord sets**



**Heat lamps and  
portable lighting**

# The DECONTACTOR™, a MARECHAL® exclusive

The DECONTACTOR™ is a plug and socket-outlet system with an integrated power switch, allowing you connect and disconnect motors in absolute safety – with plug-and-play-like simplicity. This proprietary technology also makes equipment maintenance fast and safe. With our exceptionally robust system, you can be sure that your industrial electrical connections provide long-lasting performance and comply with the latest regulations eg. IEC EN 60947-3 for switches, IEC EN 60309-1 and the EU Low Voltage Directive.



## DECONTACTOR™ technology: proven safety

- A socket-outlet with a built-in switch, all in a single, compact unit
- Just press the button once to cut the current and eliminate the risk of electric shock; the plugs then eject automatically, disconnecting the appliance
- Personnel safety is guaranteed at all times

## Reliable, long-lasting electrical connections

MARECHAL® connectors are fitted with spring-loaded contacts providing continuous, durable connections. The silver-nickel tipped contacts guarantee exceptional connection quality and superior resistance to humidity and corrosion – even after years of use.



## Mechanical lock-outs for enhanced user safety

An optional socket lock-off system prevents access to that socket during plant maintenance or re-positioning of equipment. With the plug locked-out from its socket, visible isolation for maintenance staff is achieved. The equipment plug can be locked off as well enhancing any LOTO procedure.



## IP66/IP67 sealing

IP66/IP67 sealing is automatic as soon as the plug is inserted or once the socket lid is closed manually.



# Products that meet your needs



## DSN / DS / DN

### DECONTACTOR™

20 A / 30 A / 32 A / 50 A / 63 A /  
90 A / 150 A / 250 A

The DSN, DS and DN DECONTACTOR™ ranges cover applications from 20 A to 250 A making them the most versatile for industry.

With casing material of either metal from 20 A to 250 A or glassfibre reinforced polyester from 20 A to 150 A, DECONTACTOR™ offers a robust connection for your plant. For greater operational flexibility customise your choice with auxiliary contacts, different keyways, DC voltages etc.



## DB

### DISCONNECTABLE MOTOR SWITCH

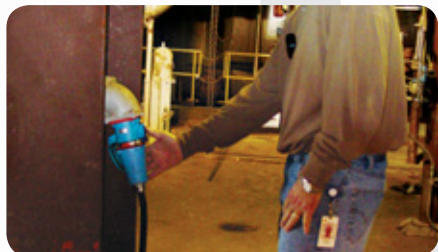
7,5 kW / 22 kW / 45 kW

DB disconnectable motor switches combine the function of an AC-3 motor switch with the convenience of a plug and socket.

Rated to 690 V max. the DB guarantees user safety even when disconnecting motors or other highly inductive loads.

You can find MARECHAL® DECONTACTOR™ on...

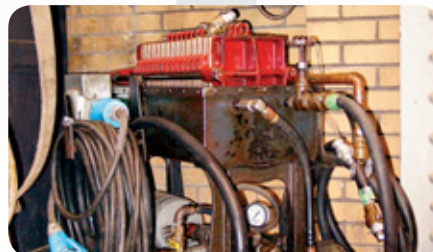
Portable equipment connection



Wastewater mixer connection



Portable oil filter pump and cordset



Welding machine



Process pump connections



Power socket-outlets



# Application spotlights

## Welding machine connections

### Ensure user safety

Significant safety and cost advantages make DECONTACTOR™ the ideal choice for connecting power to welding machines and other equipment. With their switch ratings, 65 kA or greater short circuit ratings, enclosed arc chambers and dead front construction, they not only allow users to make and break resistive and inductive loads safely under full load, but also eliminate the potential for arc flash exposure and provide protection in dangerous overload situations. The need for expensive interlocks required with other plugs & socket-outlets and the common problem of defeating the interlock with extension cords are eliminated.



DECONTACTOR™ allows welders to connect and disconnect welding machines safely even under overload conditions.

## Downtime critical equipment

### Simplify motor replacement

Motors prewired with either a DECONTACTOR™ inlet on the terminal box or with a power lead and DECONTACTOR™ motor-rated plug offer huge time and cost savings. Safety features allow technicians to replace motors in the field eliminating the need to wait for electricians.

Using MARECHAL® DECONTACTOR™ to connect motors and pumps instead of hard-wiring can help reduce motor replacement downtime costs by 50%.

Correct motor rotation can be ensured by pre-testing motors at a test bench with sockets that match the polarization in the field.



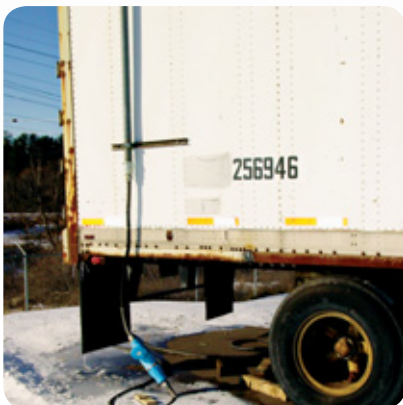
## Mobile facilities power supply

### Easily meet regulations requirements

Regulations require motors to have readily accessible disconnects. MARECHAL® DECONTACTOR™ are rated for 'Motor circuit' and distribution switching.

With models rated up to 250 A, and with configurations available for wall mounted, equipment mounted, and in-line connections, DECONTACTOR™ provide the most convenient and cost effective means of meeting regulations for local disconnects.

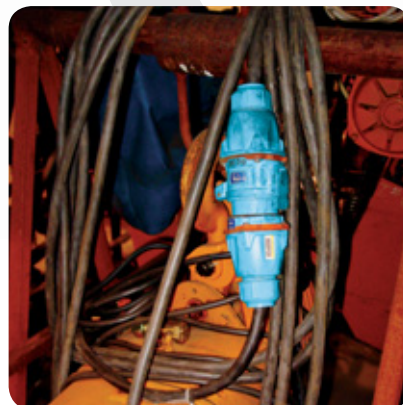
DECONTACTOR™ provide convenient power supply connections and local disconnects for mobile facilities.



## Hoist connections

### Ensure arc flash protection

DECONTACTOR™ provide arc flash protection by eliminating the potential for exposure to live parts and arcing. The contacts are completely enclosed during load-making and breaking, ensuring that any associated arcing is safely isolated in internal arc chambers. The plug can only be removed if the socket has been switched 'off' and the plug contacts are dead. The safety shutter on the socket automatically closes when the plug is removed, maintaining a dead front and preventing access to live parts. Thus, at no time during the operation of the device will the user have unintended access to live contacts or arcing.





## Portable lighting connections

### Withstand harsh environments

In addition to their superior electrical properties, DECONTACTOR™ spring-loaded, silver-nickel butt contacts are more durable and withstand harsh environments better than the brass contacts used on pin & sleeve connectors. DECONTACTOR™ contacts close with a self-cleaning wiping action, their heavy duty coil springs maintain optimal contact pressure and the silver-nickel material offers excellent wear resistance, providing more reliable performance in dirty environments. Unlike brass, silver-nickel maintains its electrical properties after oxidation and withstands many common corrosive environments.



◀ MARECHAL® plugs and socket-outlets ensure worker safety when connecting heat lamps or other lighting loads, even in damp conditions.

## Portable power distribution

### Protect against the elements

MARECHAL® DECONTACTOR™ series plugs and socket-outlets are available with ingress protection ratings up to IP66/IP67. DS and DSN series achieve their ratings simply by mating the plug with the receptacle. There is no need to turn or tighten additional fittings as is required to enable protection on many other plugs & socket-outlets. The ratings can also be maintained when the plugs & socket-outlets are disconnected: by closing and latching the lid on the receptacle, or by installing an optional cap on the plug.

**A mobile diesel generator supplies power via MARECHAL® plugs & socket-outlets during outage conditions.**



## Pump connections

### Simplify health & safety compliance

The 'Standard for Electrical Safety in the Working place / Health and Safety at Work' require the establishment of an electrically safe work condition before work tasks can be performed. DECONTACTOR™ makes this simple. Dead front construction eliminates potential exposure to arcing and unintended access to live parts, and the removal of the plug from the socket provides verification of de-energization.

Thus, electrical connections can be made and broken without the need to establish flash hazard boundaries, perform voltage testing, or 'suit-up' to meet requirements for energized electrical work.



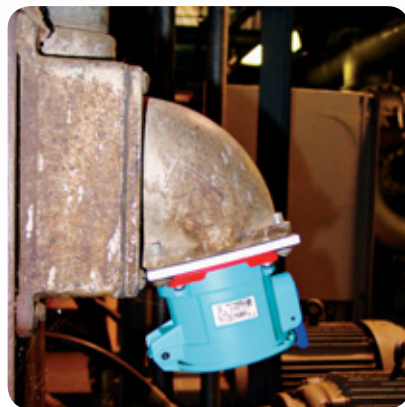
◀ Float pumps or dewatering pumps can be safely and quickly disconnected and reconnected with DECONTACTOR™.

## Retrofit applications

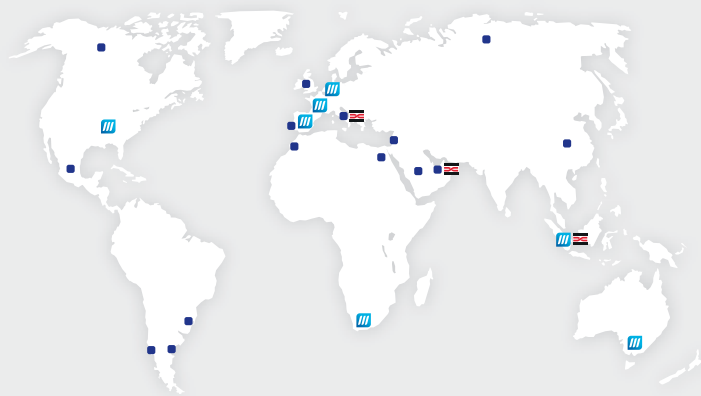
### Minimize upgrade costs

With MARECHAL® DECONTACTOR™, power generation facilities can upgrade existing pin & sleeve connections to improve safety and comply with requirements easily and with minimal expense. Their switch ratings eliminate the need for expensive interlocks and auxiliary disconnect switches, and allows DECONTACTOR™ socket-outlets or inlets to be easily installed on existing junction boxes, eliminating the need for costly rewiring.

**Modular construction made it simple for this power plant to convert their existing pin and sleeve socket-outlets to DECONTACTOR™.**



## MARECHAL ELECTRIC GROUP



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# Wide range to cover your needs

**MARECHAL ELECTRIC's range includes DECONTACTOR™, plugs and socket-outlets, connectors and distribution boxes both off-the-shelf and bespoke. Made of either polyester or metal they are designed for most industrial applications up to 250 A. Our Atex range covers applications from 20 to 200 A. MARECHAL ELECTRIC also manufactures heavy duty connectors up to 600 A and single core connectors up to 700 A.**

## INDUSTRIAL POWER SUPPLY

- DSN - DECONTACTOR™ compact & watertight - from 20 A to 63 A
- DS - DECONTACTOR™ for industry - from 30 A to 250 A
- DN - Robust DECONTACTOR™ - from 20 A to 150 A
- PNC - Compact connector - up to 16 A
- PN - Compact connector - up to 30 A
- STAR DELTA - 7 pole DECONTACTOR™ & connectors from 30 A to 150 A
- DB - Disconnectable motor switch - up to 45 kW

## SIGNAL AND CONTROL

- PN7C, DN9C, PN12C, DN20C, DSN24C, DSN37C, DS37C - Multi-contact connectors up to 37 contacts - from 5 A to 30 A

## HIGH CURRENT

- PF - Heavy-duty plugs & sockets - up to 600 A / 8 aux.
- DS4 - High-current connectors - up to 400 A / 2 aux.
- CS1000 - Single-pole power connectors - up to 400 A
- SP - Single-pole power connectors - up to 700 A + pilots
- CS - Single-pole welding connectors - from 75 A to 500 A
- CCH - Battery-charger connectors - from 75 A to 200 A

## HIGH TEMPERATURE

- PNHT/DSHT - Power connectors
- DN7C3HT/DN7C6HT - Motor connectors
- PN7CHT - Multi-contact connectors

## SELF-EJECTING

- MECHANICAL EJECTION PLUGS & SOCKETS
- ELECTROMECHANICAL EJECTION BOXES

## DISTRIBUTION BOXES AND OTHER PRODUCTS

- BM - Modular boxes
- BG - Liquefied gas transfer boxes
- BD - Distribution boxes
- BRP - Portable service boxes
- CRIC - Connection terminals
- TUNNELS - Boxes and connectors

## HAZARDOUS AREAS - Ex PRODUCTS

- DXN - DECONTACTOR™ compact & watertight from 20 A to 63 A
- DX - DECONTACTOR™ metal - from 20 A to 200 A
- PNCX - Compact connector - up to 10 A
- PXN12C, DXN25C, DXN37C - Multi-contact connectors from 12 to 37 contacts
- SPEX - Single-pole power connectors - up to 680 A - 1000 V
- MXBS - Socket boxes - up to 63 A - 750 V
- MXBJ - Junction boxes - up to 350 A - 750 V
- B2X - Distribution boxes - up to 750 V

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 **MARECHAL**  
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