

MOTOR CONNECTIONS



THORNE &
DERRICK
INTERNATIONAL

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MOTOR-DECONTACTOR™ &
INDUSTRIAL PLUGS & SOCKET-OUTLETS

marechal.com

 **MARECHAL**
ELECTRIC GROUP

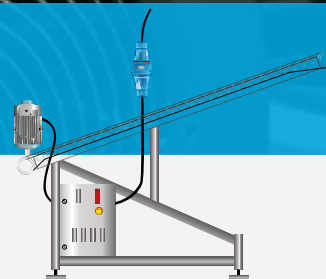
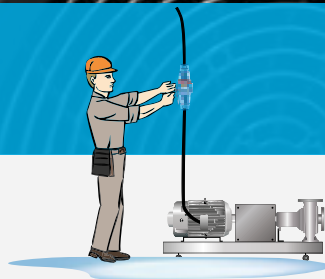
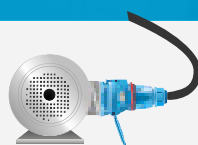
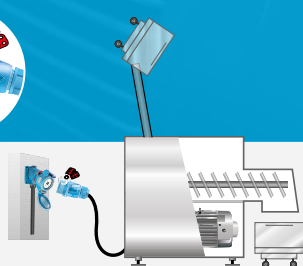
Safe and reliable electrical connections for your motors.

MARECHAL ELECTRIC offers a range of products suited to your applications.

The power supply to motors and industrial installations requires products that meet specific criteria and requirements. To satisfy the many needs linked to this activity, MARECHAL ELECTRIC provides you with a wide range of electrical connection solutions which reduce the time and means required for operations:

- Reliability
- Speed
- Flexibility
- Quality

... always with the goal to ensure safety for staff and plant.



User safety: MECHANICAL LOCK-OFF

The complete isolation safety package from MARECHAL®

MARECHAL® DECONTACTOR™ sockets have become the first choice for ease of connection and disconnection of electrical equipment, including motors and pumps, to the power supply. The integral socket switch enables equipment to be connected and disconnected on load at the push of a button. This reduces downtime for maintenance, repositioning of production equipment etc. because both qualified and multiskilled staff can operate the socket release button to disconnect plant. Once released the plug is dead. DECONTACTOR™ sockets can be supplied with a padlocking facility that enables users to comply with LOTO procedures for the increased safety of plant workers. The socket padlock bar when fitted prevents the socket release button from being pressed thus providing visible isolation. It's also possible to lock-out the plug to prevent unwanted reconnection. With an industrial switched DECONTACTOR™ range from 20 to 250 A and switched ATEX range from 20 to 200 A MARECHAL® offers a quick disconnect/isolation/LOTO safety solution for your plant. These are robust, watertight devices that offer enhanced electrical performance to keep your plant running and your staff safe.



Plug only

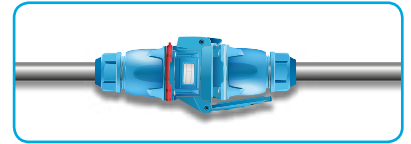
Any DECONTACTOR™ plug can be supplied with a hole into which a padlock or lock-out hasp can be fitted. Add the suffix **839** to the plug body part number.



Socket only or connected plug and socket

The socket can be supplied with the padlocking facility (suffix **844**). When fitted with a padlock or lock-out hasp, the socket lid cannot be opened. The plug can be locked into the socket using the **844** padlock bar and padlock/hasp to prevent unwanted disconnection of critical plant, eg remote water pumping station.

Once padlocked off, connections and disconnections are impossible.



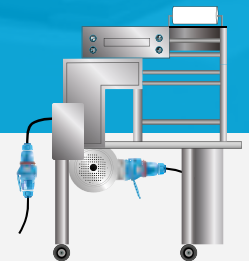
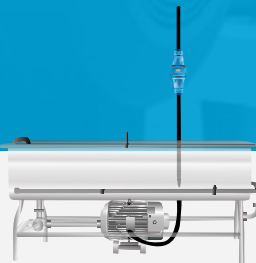
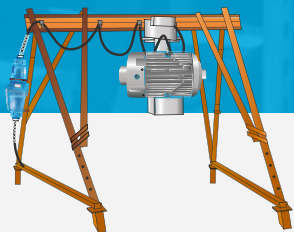
DECONTACTOR™ = Plug + Socket-Outlet + Switch

Save time and cut costs with the DECONTACTOR™

With the DECONTACTOR™ – a proprietary MARECHAL® technology – you can quickly, easily, and above all safely connect and disconnect equipment from a live power supply.

This means you can hook up and remove machines on load, thereby:

- Shortening maintenance and repair time and minimising downtime
- Facilitating both preventive and corrective maintenance
- Reducing your costs



Integration of auxiliary contacts



Improvement in control

This option enables the ON/OFF position of the power socket to be signalled to the Centralised Technical Management. It can

also serve to transmit data such as temperatures from an isothermal sensor.

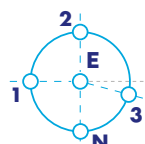
In the event of severe applications [high currents in dc, etc] these contacts can be used to control a switch.

24 Keying positions

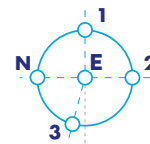


24 keying positions are possible to differentiate between dissimilar voltages. Some of these are reserved for the creation of specific systems:

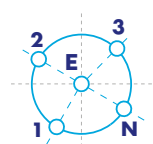
Examples



Position 01
380-440 V 50 Hz



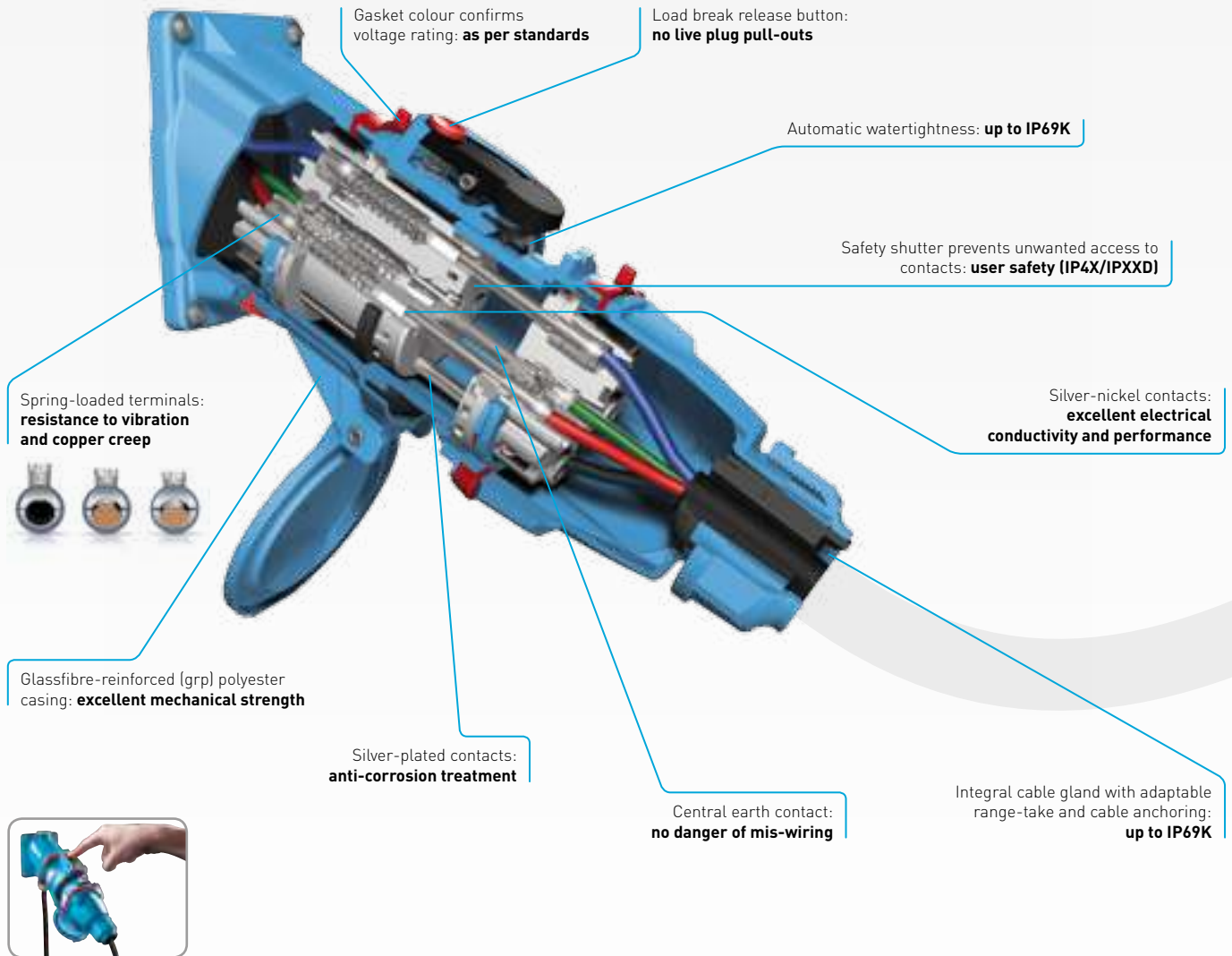
Position 19
660-690 V 50 Hz



Position 05
Free [specific to motor applications]

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 deliver long-lasting performance and comply with the latest regulations (like 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

Fast and safe connection under any circumstances

The socket latch holds the plug in the socket against the force of the internal spring. This ensures the plug is watertight and that the appliance will start up properly. When the plug is pulled out the safety shutter in the socket prevents access to the live parts.

Connection quality and life expectancy

MARECHAL® products are fitted with spring-loaded contacts providing permanent and durable contact. The silver-nickel tips at the end of the contacts provide exceptional connection quality and excellent resistance to wet and corrosive environments, even after years of use.



IP66/IP67 sealing

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



DSN / DS / DN

DECONTACTOR™

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

The DSN/DS/DN range spans currents from 20 A to 250 A, making it our largest and most complete DECONTACTOR™ range. Socket-outlets and connectors are available in glass-reinforced polyester for currents from 20 to 150 A and in metal for currents from 20 to 250 A, and offer a large array of options like keying systems and auxiliary contacts.

- Built-in AC-22 and AC-23 switching capability
- Compliant with your frequency converter installation.



DB

DISCONNECTABLE MOTOR SWITCH

40 A / 75 A / 125 A

With an AC-3 switching capability, DB combine the functions of a motor disconnect and a power socket. They ensure the safety of people during an operation on the load (motor or highly inductive load). DB range is equipped with a mechanical indicator (red / green) and options such as lockout or addition of auxiliary contacts.





STAR-DELTA

7 POLE DECONTACTOR™ PLUGS AND CONNECTORS From 30 A to 150 A

Thanks to their silver-nickel tips at the end of the contacts these DECONTACTOR™ plugs are designed to resist repeated overloads and are especially suitable for reliable motor connections, even with frequent re-starting.

- Connection of star-delta motors
- Connection of motors with two speed cycles
- Simpler and safer than fixed wiring
- Watertight
- Tolerance to repeat overloads



SP

SINGLE-POLE POWER CONNECTORS 700 A

Thanks to the butt-contact technology the SP single pole connector accepts a permanent current of 700 A / 1 000 V ac or 1500 V dc [connection with 70 to 400m² cables].

They are IP66/IP67 watertight and have an electromechanical lock-out system with a pilot circuit for each contactor, preventing accidental disconnections.




Suitable
for circuit
interrupting
on load in
Ex area



DXN

ATEX DECONTACTOR™
20 A / 32 A / 63 A

 II 2 G D Ex de IIC Gb

DXN DECONTACTOR™ plugs are designed for hazardous areas, with Ex '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.




DXN mechanical LOCK-OFF



DX

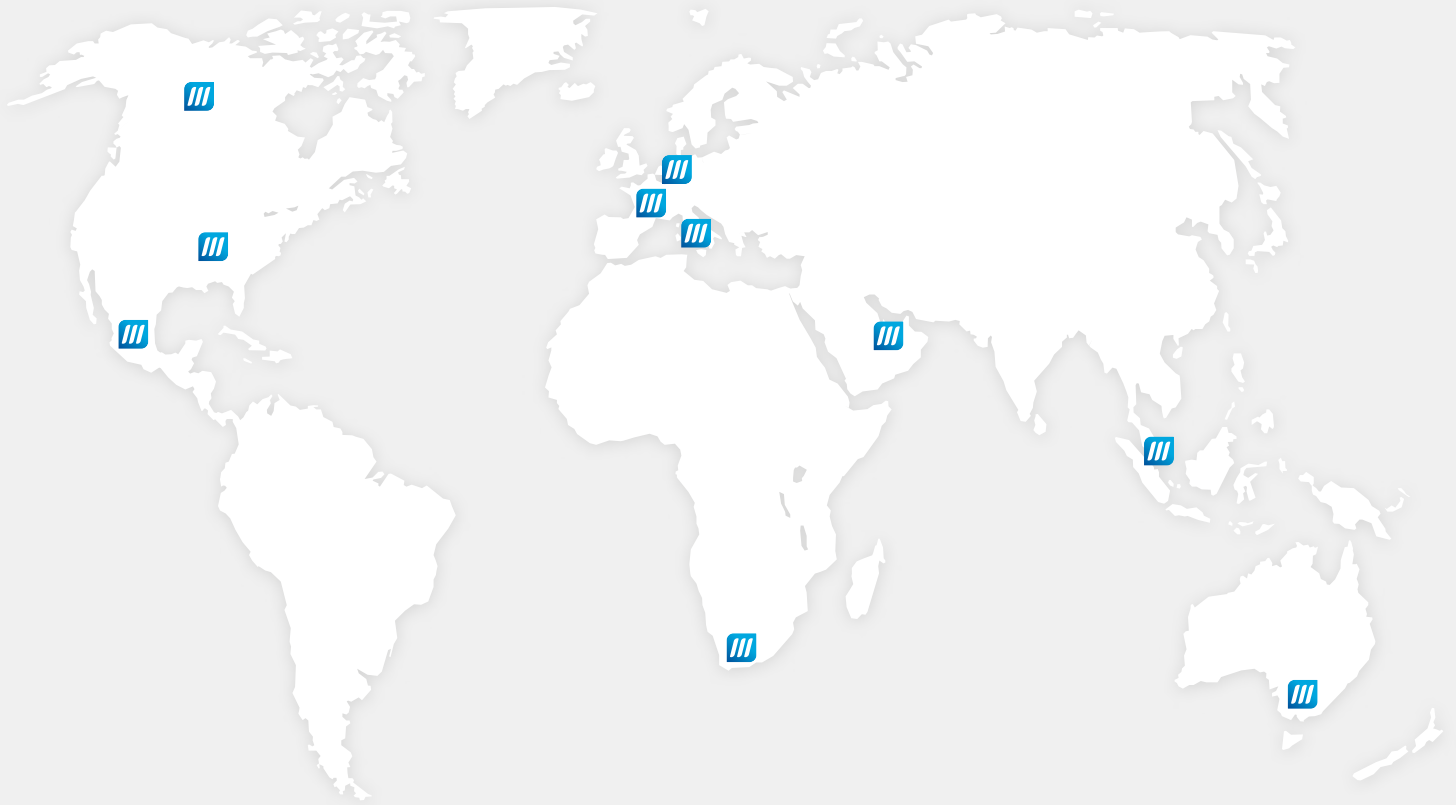
METAL ATEX DECONTACTOR™
20 A / 32 A / 63 A / 125 A / 200 A

 II 2 G D Ex de IIC Gb

DX DECONTACTOR™ plugs are designed for hazardous areas, with Ex '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.





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