

THE DECONTACTOR™

PLUGS & SOCKETS WITH AN INTEGRATED POWER SWITCH



THORNE &
DERRICK
INTERNATIONAL

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Securing your facilities:

DECONTACTOR™ = Plug + Socket-Outlet + Switch

With the DECONTACTOR™ – a proprietary MARECHAL® technology – you can quickly, easily, and above all safely connect and disconnect equipment from a live power supply up to 250 A and 75 kW, with **no need for pilot wiring and contactor**.

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

The DECONTACTOR™ sockets are also available in **Ex** version.

High performance and quality of materials

- Butt contacts in silver-nickel: outstanding conductivity and resistance to corrosion, vibration, shocks and temperature variation.
- Up to 10,000 cycles or 8 times higher than required by EN 60309-1.
- Resistant to voltage spikes up to 8 times rated current for 1 minute.
- Shock resistant: up to 1K10 with metal casings.
- Temperatures from -40 °C to +60 °C.
- Automatically watertight: up to IP69k, 100 bars and 80 °C.

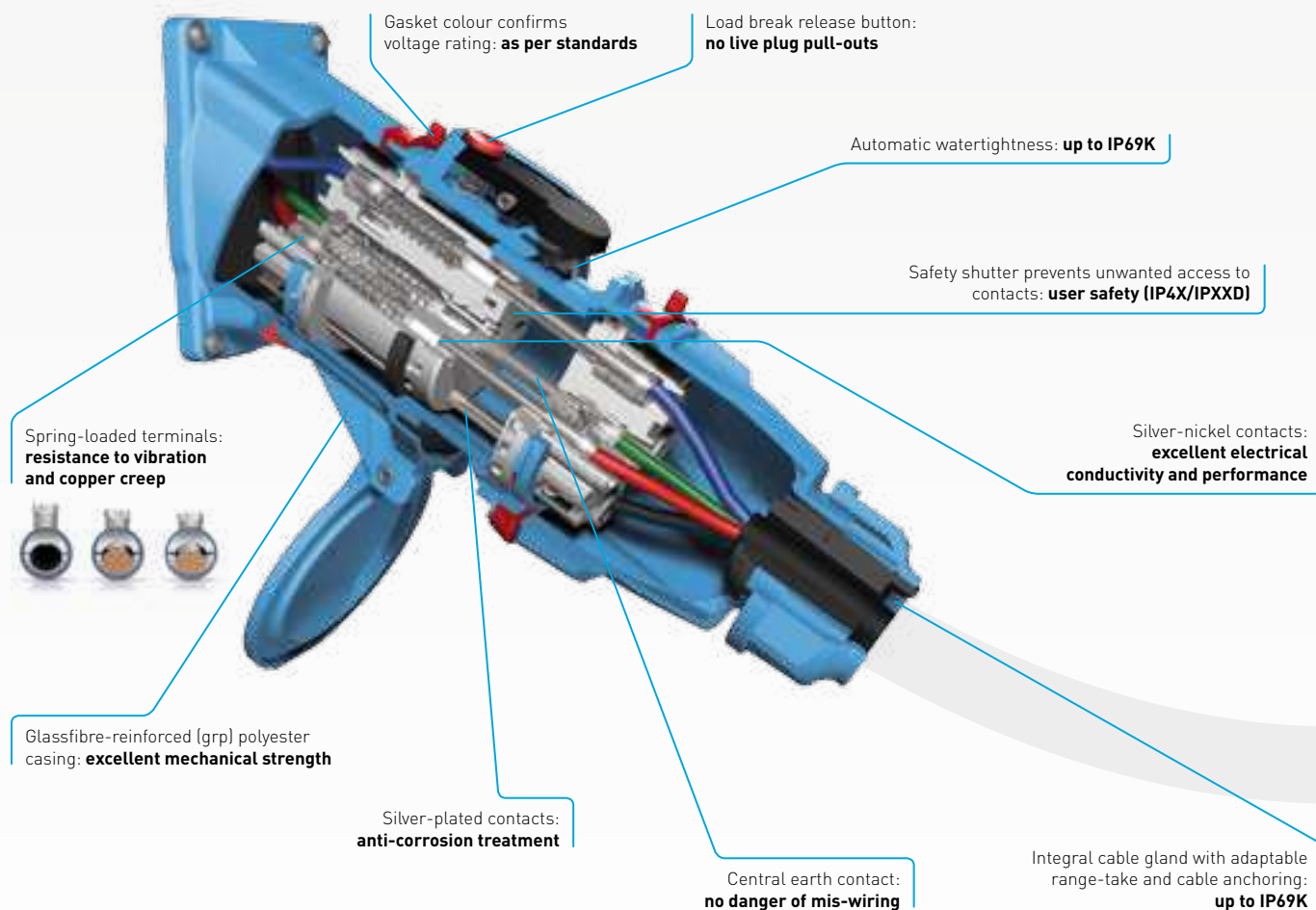
End-user safety

- Safe connection/disconnection even under short-circuit conditions.
- 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.
- Safety shutter protecting direct contacts: user safety against electrical shocks (IP4X/IPXXD).

The DECONTACTOR™, a MARECHAL® technology

The DECONTACTOR™ is a plug and socket-outlet system with an integrated power switch, allowing you connect and disconnect facilities 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).



Dual-voltage: the ideal solution

Optimize your installation costs: the 230/400 V – 3P+N+E dual-voltage sockets are meant to indifferently receive both four-phase and three-phase 400 V plugs and single-phase 230 V plugs.



A wealth of functions and added value

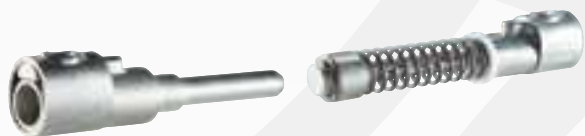
Connection quality and life expectancy

• Crimped braiding

The MARECHAL® system combining a crimped braid with a spiral-shaped spring guarantees performance levels and strengths beyond any standard receptacle concept. The flexibility of the braid enables the tips of the female contact to remain in perfect alignment with the tip of the male contact, without affecting performance, irrelevant of the external conditions. The spiral spring provides comfort for use as the force applied to create the connection and ensure that the connection and manoeuvre endurance remains minimal, as it only works with a small fraction of its elasticity.

• Butt-contacts

The butt contacts with silver-nickel tips guarantee exceptional connection quality in time. Conductivity is optimal thanks to these pressure -applied contacts. With anti-corrosion treatment, these contacts offer high resistance to corrosion and mechanical (IK08) and climatic shocks (-40 °C to +60 °C under operation conditions). They also guarantee the permanent absorption and tolerance to repeat overloads, in particular with regards to powering electric motors, gen sets, pumps and their frequent greedy starting currents.



Automatic IP66/IP67 sealing: ensuring optimal operation in humid conditions

The reinforced IP66/IP67 watertightness is effective automatically upon connecting the socket or upon closing the lid. It enables the product to be used in extremely wet or dusty environments. Some of our plugs are available up to IP69k for high-pressure cleaning at 100 bar and 80 °C.



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.
- A safety shutter protects the user (IP4X/IPXXD). Live contacts are inaccessible.
- Personnel safety is guaranteed at all times.



User safety: mechanical locking

Optional locking systems prevent accidental power supply to a machine during maintenance, and fit perfectly into your consign-ment procedures.

Once the DECONTACTOR™ is safely disconnected, you can mechanically interlock the two parts already physically separated:

- Plug only
Padlock placed directly onto the plug or a lock-out hasp.
- Closed socket only
Padlock or lock-out hasp placed onto the provided bar. Connections are thereafter impossible, making it absolutely safe for users.
- Connected socket and plug
Padlock or lock-out hasp placed onto the provided bar. Connections are thereafter impossible.



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/DN range spans currents from 20 A to 250 A, making it our largest and most complete DECONTACTOR™ range.

Their casing meets the requirements of industries that require robust connectors.

Socket-outlets and connectors are available in GRP for currents from 20 A to 90 A and in metal for currents above 50 A, and offer a large array of options like keying systems and auxiliary contacts.



DXN / DX

DECONTACTOR™

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

Ex II 2 G D Ex de IIC Gb

DXN / DX DECONTACTOR™ plugs and sockets 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.

Socket-outlets and connectors are available in GRP for currents from 20 to 63 A and in metal for currents from 20 to 200 A.



They already rely on us



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.



FOOD & BEVERAGE

- ECKES GRANINI - Ambient temperature fruit juices processing
- LA COMTOISE - Cheese factory
- FINDUS - Fish packaging
- LACTALIS - Dairy industry
- SENOBLE - Dairy industry

CHEMICALS - PHARMACEUTICAL

- ARKEMA - Basic chemistry: acidifying sweeteners and resins
- PCL - Basic chemistry: chlorine products
- LUBRIZOL - Chemical manufacturer
- SANOFI AVENTIS - Pharmaceutical research
- YVES SAINT-LAURENT - Manufacture of perfumes and cosmetics

ENTERTAINMENT AND MEDIA

- VIEILLES CHARRUES - Musical festival
- PARC DES EXPOSITIONS DE VILLEPINTE - Exhibition hall
- FOIRE DE MARS - Fairground
- CHRISTMAS MARKETS - Christmas cottages

ENERGY

- AREVA - Uranium enrichment site
- EDF - Fessenheim nuclear plant
- AGREX - Fuel stations - cisterns
- INRA - Agronomic research
- AIR LIQUIDE - Gases for industry, health and environment

INDUSTRY

- BRIDGESTONE - Production of automobile tires
- ARCELOR MITTAL - Metallurgy
- UMICORE - Production of zinc solutions
- RIO TINTO ALU DK - Aluminum production
- VALLOUREC MANNESMAN - Production of steel tubes
- THYSSEN KRUPP UGO - Productions dielectric steel, magnetic laminations
- CARBONE SAVOIE - Carbon and graphite products manufacture
- SWEDSPAN (GROUPE IKEA) - Production of raw chipboard and melamine for the furniture industry

INFRASTRUCTURES

- SEA BULK - Commercial port
- RMN APPIA - Crushing, recycling construction waste
- PORT DE DIEPPE - Commercial port

MINES AND QUARRIES

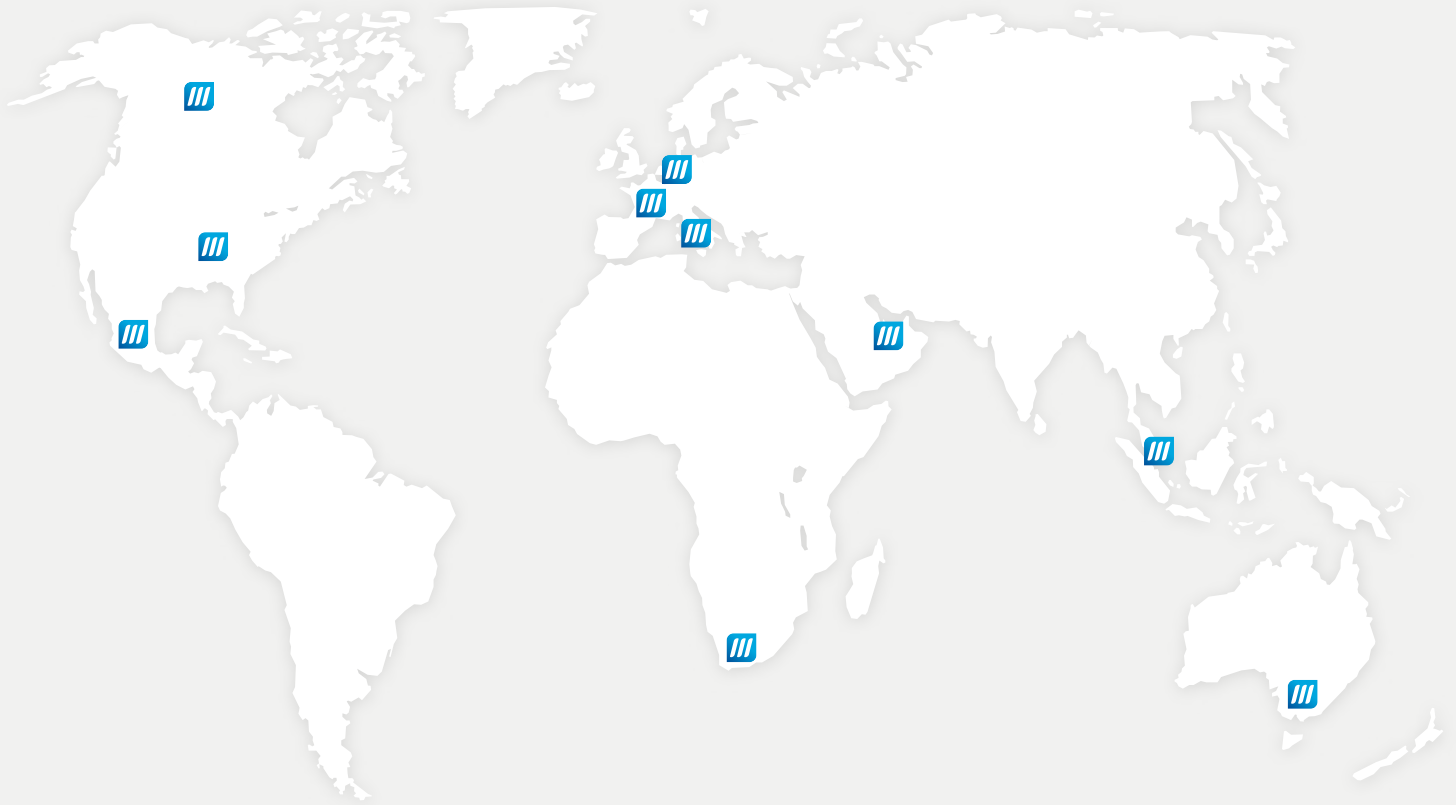
- LES ARDOISIÈRES - Slate quarry
- SALINS DU MIDI - Salt production
- CARRIERE MARBRE - Marble quarry

WATER TREATMENT

- FBI BIOME - Mobile treatment units for biogas and liquid
- SIAAP - Wastewater treatment

TRANSPORT

- AIR FRANCE INDUSTRIES - Aerospace
- AIRBUS FRANCE - Aircraft construction
- FEDEX III - European base package - Air Freight
- ALSTOM TRANSPORT - TER rail - Passenger car
- BUS WITH NATURAL GASES - TRANSPOLE Lille Public Transport
- SIEMENS - Metro NEOVAL - Public Transport
- PVI - OREOS electric buses - Industrial vehicle



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