

# THE DECONTACTOR™

## PLUGS & SOCKETS WITH AN INTEGRATED POWER SWITCH



THORNE &  
**DERRICK**  
INTERNATIONAL

Thorne & Derrick  
+44 (0) 191 410 4292  
www.heatingandprocess.com



### 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 IK10 with metal casings.
- Temperatures from -40 °C to +60 °C.
- Automatically watertight: up to IP69k, 100 bars and 80 °C.

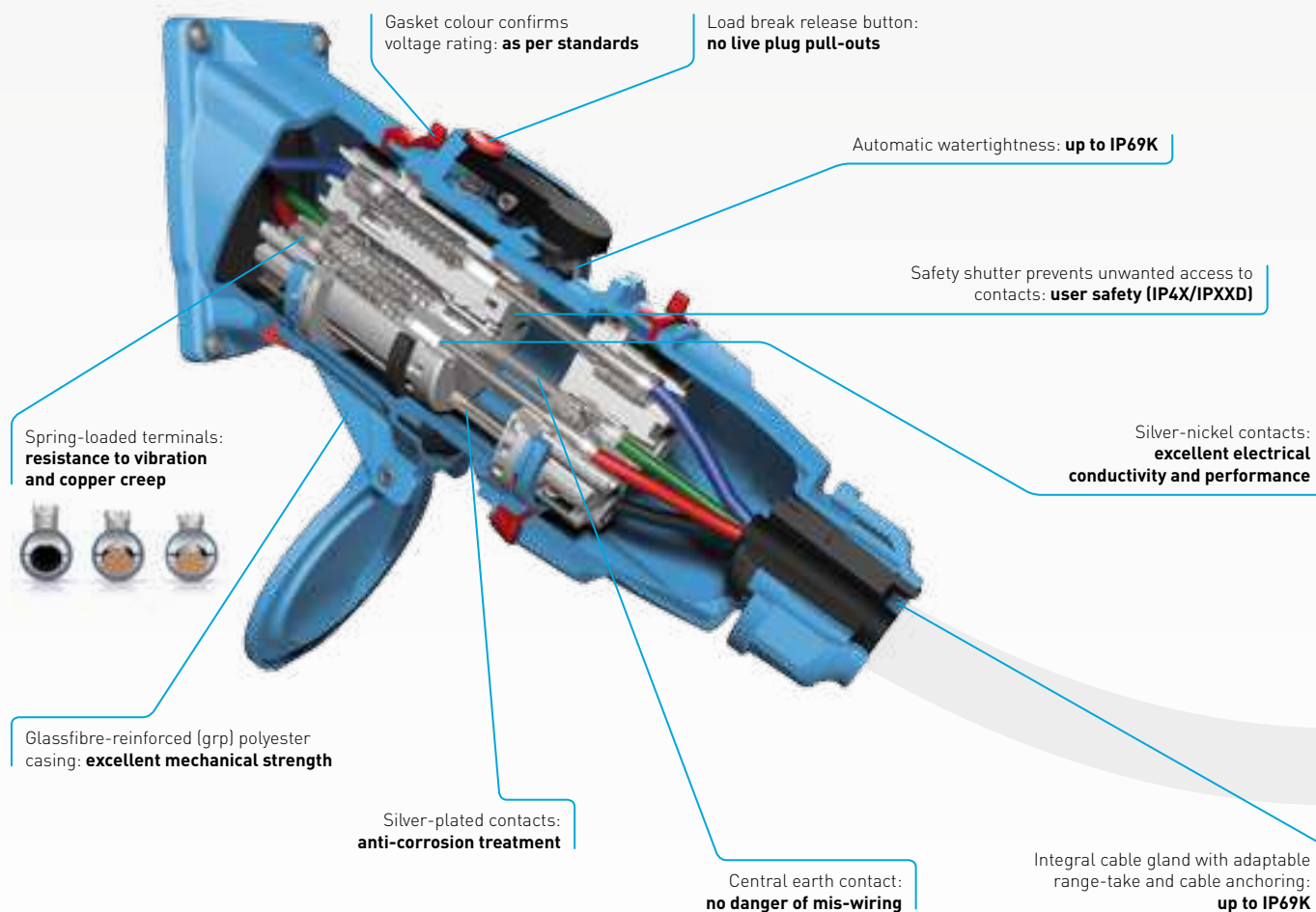
#### End-user safety

- 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

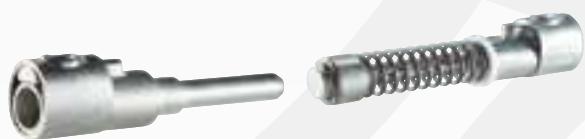
Optimize your installation costs: the 230/400 V – 3P+N+E dual-voltage sockets are meant to indifferently receive both four-phase and three-phase 400 V plugs and single-phase 230 V plugs.



# 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

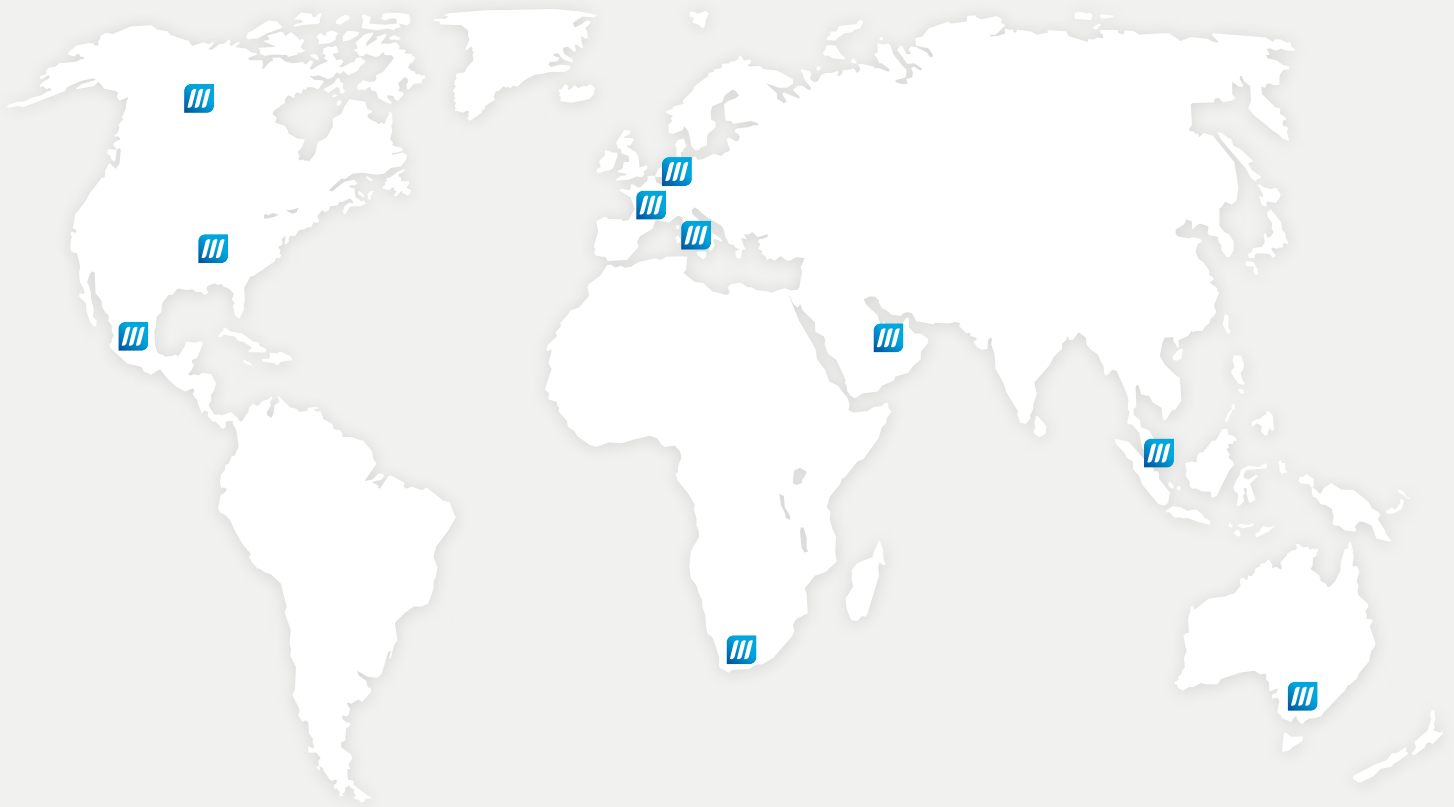
- LES ARDOISIÈRES - Slate quarry
- SALINS DU MIDI - Salt production
- CARRIERE MARBRE - Marble quarry

#### 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



**Spain**

Avda. Carlos Sainz, 7,  
1ª planta, oficina 2,  
28914 Leganés – Madrid  
Tel.: +34 91 358 86 12  
Fax: + 34 91 358 89 70  
e-mail: contact@marechal.com

**Italy**

Via Italia 33,  
20060 Gessate (MILANO)  
Tel.: +39 02 95 38 04 06  
Fax: +39 02 95 38 08 58  
e-mail: sales.it@marechal.com

**United Kingdom / Ireland**

Tel: +44 (0) 3330 124 048  
e-mail: sales.uk@marechal.com

**Benelux**

Hogehilweg 16-4  
1101 CD Amsterdam Zuidoost  
The Netherlands  
Tel.: +31 (0)6 52 56 40 81  
Fax: +31 (0)84 870 02 13  
e-mail: sales.nl@marechal.com

**HEAD OFFICE**

5, avenue de Presles  
F-94417 Saint-Maurice Cedex  
Phone : +33 (0)1 45 11 60 00  
Fax : +33 (0)1 45 11 60 60  
e-mail: contact@marechal.com

**Germany / Austria / Switzerland / East Europe / Russia**

MARECHAL GmbH  
Im Lossenfeld 8  
D-77731 Willstätt-Sand  
Germany  
Tel.: +49 (0)7852 / 91 96-0  
Fax: +49 (0)7852 / 91 96-19  
e-mail: info.de@marechal.com

**Africa SADC area**

HYCON MARECHAL TECHNOLOGY  
PO Box 13875 Witfield 1467  
Unit A1 Harvard Lane  
Aero Star Business Park  
Jet Park Road, Jet Park  
South Africa  
Tel.: +27 11 894 7226/7/8  
Fax: 086 604 1778  
e-mail: sales.za@marechal.com

**USA / Canada / Mexico**

MELTRIC Corporation  
4765 W. Oakwood Park Drive  
Franklin WI 53132  
USA  
Tel.: +1 414 433 2700  
Fax: +1 414 433 2701  
e-mail: mail@meltric.com

**Middle East**

Technor Middle East DMCC  
Unit No.2101, Fortune Executive Tower,  
Plot No T1  
Jumeirah Lakes Towers P.O. Box 392054  
Dubai, United Arab Emirates  
Tel. : +971 4 362 1418  
Fax: +971 4 362 1419  
e-mail: mail@technor.ae

**Asia**

MARECHAL ELECTRIC Asia Pte Ltd  
9 Tagore Lane  
#01-05 9@Tagore  
Singapore 787472  
Tel. : +65 6554 2722  
Fax: +65 6455 9077  
e-mail: sales.asia@marechal.com

**Australia**

MARECHAL AUSTRALIA PTY LTD  
20 Technology Circuit  
HALLAM VIC 3803  
Tel: +61 1300 661 830  
Fax: +61 1300 663 510  
e-mail : sales@marechal.com.au

For any other country or area, please contact head office.



**THORNE & DERRICK INTERNATIONAL**  
Thorne & Derrick  
+44 (0) 191 410 4292  
www.heatingandprocess.com