

### Securing your facilities:

### DECONTACTOR™ = Plug + Socket-Outlet + Switch

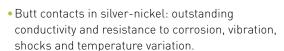
With the DECONTACTOR $^{\text{TM}}$  – a proprietary MARECHAL $^{\otimes}$  technology – you can quickly, easily, and above all safely connect and disconnect equipment from a live power supply up to 250 A and 75 kW, with **no need for pilot wiring and contactor**.

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/IECeX** version.

#### High performance and quality of materials



- 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**



circuit conditions.

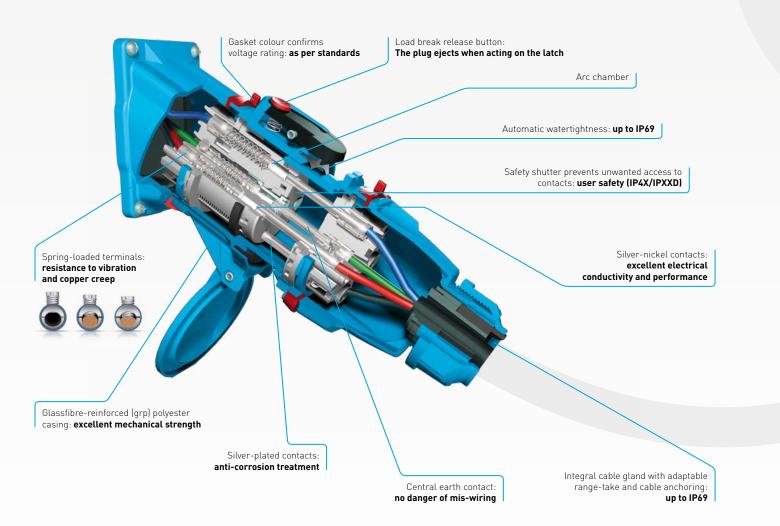
- Optional pad-locking to prevent disconnection or access to socket when the plug is disconnected. In the event of emergency, an unqualified operator can easily and safely break a motor's power supply.
- Safety shutter protecting direct contacts: user safety against electrical shocks (IP4X/IPXXD).



# 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

- 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.

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 extermely 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
- 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 consignment 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.
- Padlock or lockout hasp placed onto the provided bar. Connections are thereafter impossible, making it absolutely safe for
- Closed socket only
   Connnected socket and plug Padlock or lockout 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 $^{TM}$  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.



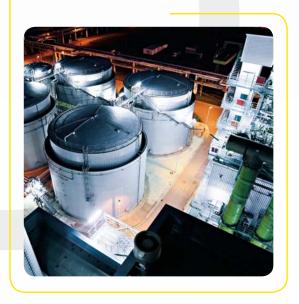


## DXN / DX

# DECONTACTOR™ 20 A / 32 A / 63 A / 125 A / 200 A Solution II2 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.





## 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.



## They already rely on us

#### **FOOD & BEVERAGE**

- ECKES GRANINI Ambient temperature fruit juices processing
   LA COMTOISE Cheese factory
   FINDUS Fish packaging

- LACTALIS Dairy industry SENOBLE Dairy industry PICK SZEGED, HUNGARY

#### **CHEMICALS - PHARMACEUTICAL**

- ARKEMA Basic chemistry: acidifying sweeteners and resins
- 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

- 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
- 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
- KGHM, POLAND COPPER MINE
- MATREI POWER, HUNGARY COAL MINE
   INDO MINERALS & METALS, MACEDONIA zinc and lead mines
   MINE SASA D.O.O, MACEDONIA zinc and lead mines

#### 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

#### **STEEL INDUSTRY**

- ARCELOR MITTAL, CZECH REPUBLIC ARCELOR MITTAL, POLAND
- ARCELOR MITTAL, ROMANIA
- SERBIA IRON & STEEL, SERBIA



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## A wide range, suitable for all industrial sectors

#### **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 DECONTACTORTM - from 20 A to 90 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 50 A

DB - Disconnectable motor switch - up to 45 kW

#### **SIGNAL AND CONTROL**

PN7C, DN9C, PN12C, DN20C, DSN24C, DSN37C 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 + pilots 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 250 A

#### **HIGH TEMPERATURE**

PNHT/DSHT - Power connectors

#### **SELF-EJECTING**

**MECHANICAL EJECTION PLUGS & SOCKETS ELECTROMECHANICAL EJECTION BOXES** 

#### **DISTRIBUTION BOXES AND OTHER PRODUCTS**

BM - Modular boxes

BRP - Portable service boxes

TUNNELS - Boxes and connectors

### **HAZARDOUS AREAS - Ex products**

DXN - DECONTACTOR™ compact & watertight - from 20 A to 63 A

PNCX - Compact connector - up to 10 A

PXN12C, DXN25C, DXN37C - Multi-contact connectors

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

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

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