

**MARECHAL**  
**electric**



***Switch rated equipment connectors  
for the Water & Waste  
Industries***



# Marechal's DECONTACTOR™ ideally su



## Connect with confidence & disconnect with safety

Thanks to its integral load-break isolating switch mechanism, the decontactor socket allows users to connect and disconnect electrical equipment safely up to 250 A : a release button cuts the power and de-energises the plug before it can be removed. Even in the event of a short-circuit, the decontactor guarantees user safety and eliminates any electrocution hazard.

## Reduce downtime

When decontactors are used in lieu of hard-wiring, a fitter can replace a motor safely and efficiently. A blocked submersible pump can be up and running in a matter of minutes instead of hours and with just one person. Operating costs are reduced as re-wiring on site is no longer necessary.

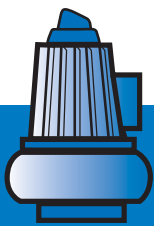


## Provides automatic IP66/67 watertight seal

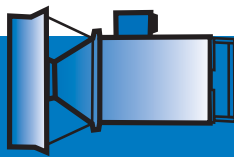
The plug and socket is **automatically** watertight just by inserting the plug or by closing the socket lid when you remove the plug. There is no need to turn any sealing ring!

## Ensure long working life

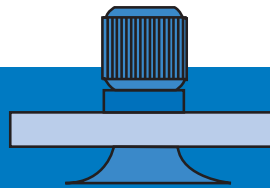
The decontactor butt contacts have silver-nickel tips which are an excellent conductor, corrosion-resistant, shock resistant (Ik08) and environmentally sound (-40 °C to +60 °C). These are true fit-and-forget connectors allowing you to make product, not regularly replace connectors.



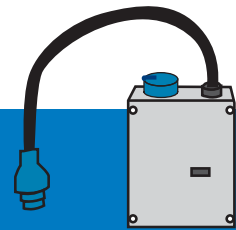
*Pumps*



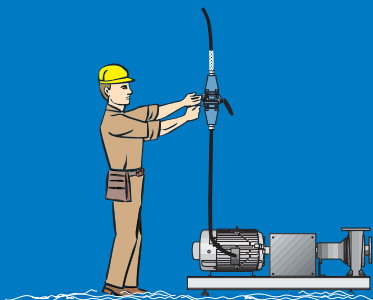
*Mixers*



*Aerators*



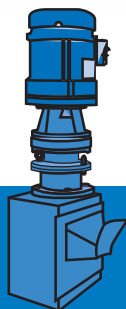
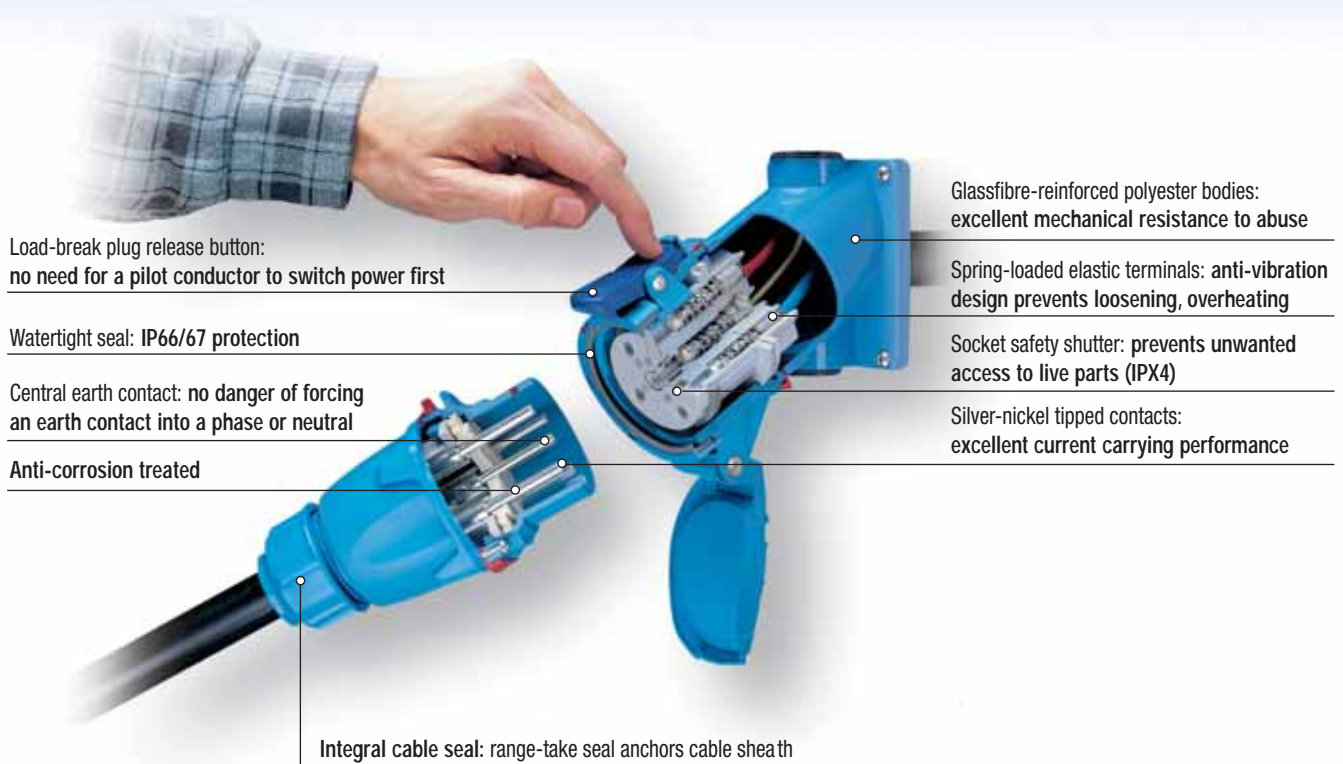
*Portable motor  
control centres*



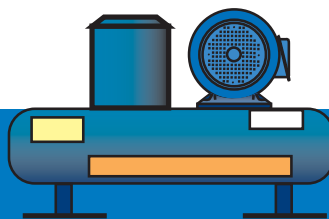
## ENSURE SAFETY FOR PERSONNEL ...

Decontactors' features ensure safety by preventing access to live parts, by providing superior electrical connections that do not deteriorate with wear or oxidation and by allowing users to make and break connections safely - even in wet or during overload conditions.

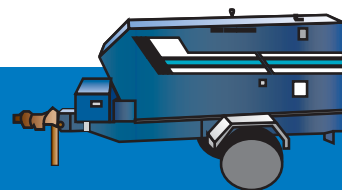
# ... suited to the water and waste industries



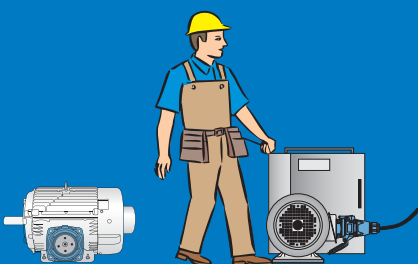
*Macerators*



*Compressors*



*Generators*



## ... & SIMPLIFY MAINTENANCE

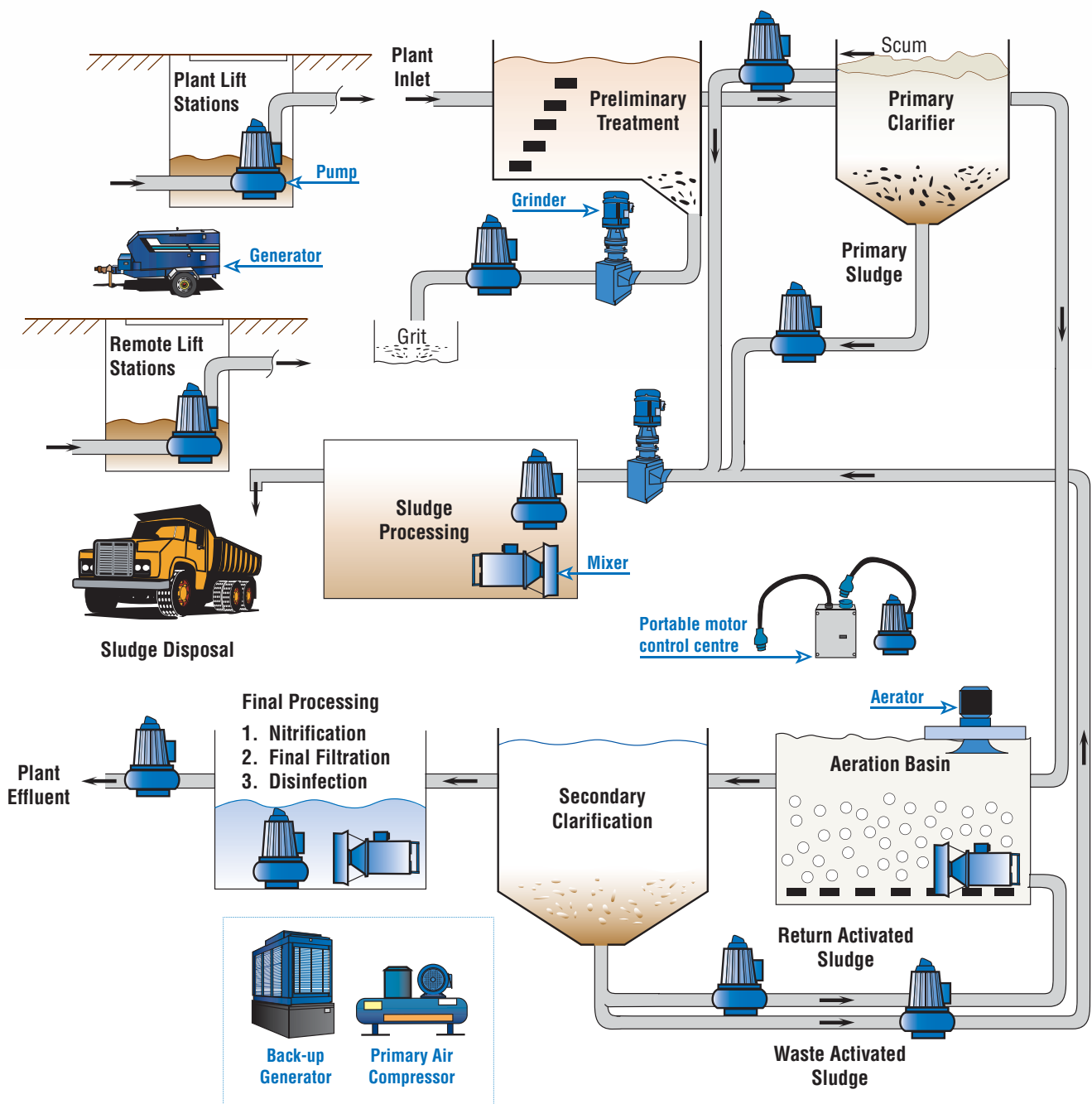
Deconnectors allow mixers, pumps, macerators and other equipment to be connected safely with plug and play simplicity. Fitters can easily replace or service visibly isolated equipment without needing an electrician on site. Equipment replacement times are significantly reduced, worker exposure to harsh environments is minimized and re-wiring errors are eliminated.

# Focus on Water and Wastewater plants

## Gain benefit from the Marechal DECONTACTOR™

Decontactors are built with high quality materials. Silver-nickel contacts, stainless steel hardware, and chemical resistant housings all help withstand corrosion caused by the hydrogen sulfide gases usually found in wastewater environments. Other features, such as optional auxiliary pilot contacts can be used for control purposes such as seal failures or thermal alarms.

**Decontactors are ideal for connecting power to ...**





# Application spotlights

## **ZOOM** Submersible mixers



Submersible mixers and pumps are used throughout a typical wastewater treatment plant as well as at remote lift stations. When used to connect power to submersible mixers or pumps Marechal Deconnectors offer:

### **Safety**

Workers can safely make and break electrical connections under full load. The dead front prevents access to live parts.

### **Easy equipment replacement**

A fitter can break the power, service or replace the mixer and reconnect power. This is done by simply pressing the plug release button on the socket. There is no need for an electrician on site.

### **Low costs**

Deconnectors are UL, CSA, and IEC switch rated. The deconnector offers you a socket, a switch and an isolator in one product.

### **Design and installation simplicity**

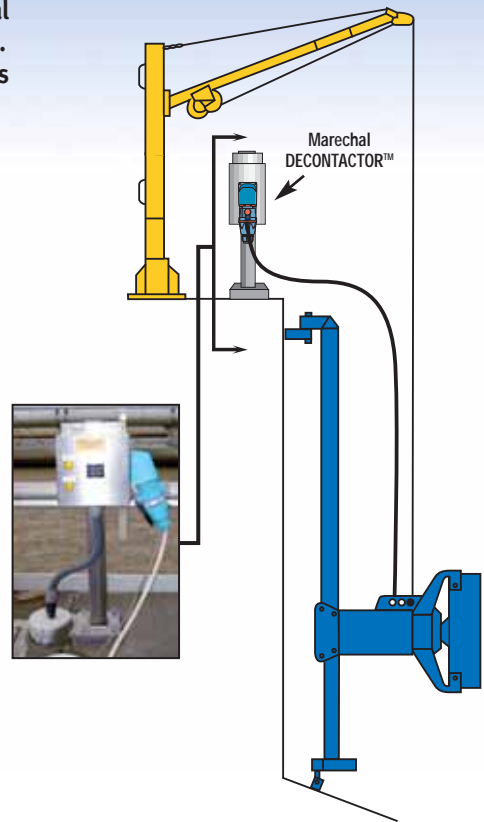
There is no need to locate and install auxiliary disconnect switches or mechanical interlocks.

### **Long life**

Robust materials and construction resist harsh environments. Butt-style contacts perform for thousands of operations.

### **Enhanced control**

Optional pilot contacts can be connected to a contactor for additional safety or connected to pump controls such as seals or thermal alarms.



## **Applications:**



Typical connection of a cochlea motor.



Typical connection of a submersible pump.

# Product selection guide



## DSN DECONTACTOR™ IP66/67 when connected

- Polyester casings resistant to mechanical shock (IKo8)
- Ambient temperature : -40 °C to +60 °C
- Breaking capacity AC23
- Up to 63 A

(Similar ATEX compliant product available)

Wall mounting socket



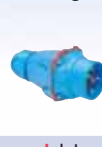
Inclined socket



Coupler socket



Plug



Active part :	Socket-outlet	Socket-outlet	Socket-outlet	Inlet
+ installation accessory :	Wall box	Inclined sleeve	Handle	Handle

### DSN<sub>1</sub> - 20 A

Voltage	Polarity	Part Number			
400 V	3P+E	61 14 013	61 14 013	61 14 013	61 18 013
	+ accessory :	61 1A 053	61 1A 027	61 1A 013	61 1A 013

### DSN<sub>3</sub> - 32 A

Voltage	Polarity	Part Number			
400 V	3P+E	61 34 013	61 34 013	61 34 013	61 38 013
	3P+E + 2 aux.	61 34 013 972	61 34 013 972	61 34 013 972	61 38 013 972
	+ accessory :	61 3A 058	61 3A 027	61 3A 013	61 3A 013

### DSN<sub>6</sub> - 63 A

Voltage	Polarity	Part Number			
400 V	3P+E	61 64 013	61 64 013	61 64 013	61 68 013
	3P+E + 2 aux.	61 64 013 972	61 64 013 972	61 64 013 972	61 68 013 972
	3P+E + 4 aux.	61 64 013 264	61 64 013 264	61 64 013 264	61 68 013 264
	+ accessory :	51 CA 058	61 6A 027	61 6A 013	61 6A 013



## DS DECONTACTOR™

- Casings made of anti-corrosion treated metal resistant to mechanical shock (IKo9)
- Ambient temperature : -40 °C to +60 °C.
- Breaking capacity AC23
- Up to 250 A

Wall mounting socket



Inclined socket



Coupler socket



Plug



Active part :	Socket-outlet	Socket-outlet	Socket-outlet	Inlet
+ installation accessory :	Wall box	Inclined sleeve	Handle	Handle

### DS<sub>6</sub> - 90 A

Voltage	Polarity	Part Number			
400 V	3P+E	39 64 013 600	39 64 013 600	39 64 013 600	39 68 013 600
	3P+E + 2 aux.	39 64 013 602	39 64 013 602	39 64 013 602	39 68 013 602
	3P+E + 3 aux.	39 64 013 268	39 64 013 268	39 64 013 268	39 68 013 268
	+ accessory :	51 DA 058	51 DA 757	31 6A 013	31 6A 013

### DS<sub>9</sub> - 150 A

Voltage	Polarity	Part Number			
400 V	3P+E	39 94 013 600	39 94 013 600	39 94 013 600	39 98 013 600
	3P+E + 2 aux.	39 94 013 655	39 94 013 655	39 94 013 655	39 98 013 655
	3P+E + 4 aux.	39 94 013 656	39 94 013 656	39 94 013 656	39 98 013 656
	3P+E + 6 aux.	39 94 013 657	39 94 013 657	39 94 013 657	39 98 013 657
	+ accessory :	87 9A 053	87 9A 087	65 9A 013 D35*	65 9A 013 D35*

### DS<sub>2</sub> - 250 A

Voltage	Polarity	Part Number			
400 V	3P+E	39 24 013 600	39 24 013 600	39 24 013 600	39 28 013 600
	3P+E + 2 aux.	39 24 013 602	39 24 013 602	39 24 013 602	39 28 013 602
	+ accessory :	39 2A 053	39 2A 027	39 2A 013	39 2A 013

\* D35 = Cable dia. 25 to 35 mm

D45 = Cable dia. 35 to 45 mm



## Decontactors for Motor Connections - 6P+E

- Casings made of anti-corrosion treated metal or polyester
- Breaking capacity AC23 (EN 60947-3 standard)
- Ambient temperature : -40 °C to +60 °C
- Comply with EN 60309-1 European standard
- Up to 150 A



Wall mounting  
socket



Inclined socket



Coupler socket



Plug



Active part :	Socket-outlet	Socket-outlet	Socket-outlet	Inlet
+ installation accessory :	Wall box	Inclined sleeve	Handle	Handle

### DSN7C3 : 30 A

U/I **	Polarity	Part Number				
400/30	6P+E	61 34 061	61 34 061	61 34 061	61 38 061	
	+ accessory :	51 BA 058	61 3A 027	61 3A 013	61 3A 013	

### DN9C : 30 A

U/I **	Polarity	Part Number				
400/30	6P+E + 2 aux.	19 14 081 312	19 14 081 312	19 14 081 312	19 18 081 312	
	+ accessory :	87 3A 053	87 3A 087	19 1A 013	19 1A 013	

### DS7C3 : 50 A

U/I **	Polarity	Part Number				
500/50	6P+E	39 34 561 600	39 34 561 600	39 34 561 600	39 38 561 600	
	6P+E + 2 aux.	39 34 561 748	39 34 561 748	39 34 561 748	39 38 561 748	
	6P+E + 3 aux.	39 34 561 268	39 34 561 268	39 34 561 268	39 38 561 268	
	+ accessory :	87 6A 053	87 6A 087	31 6A 013	31 6A 013	

### DN7C6 : 90 A

U/I **	Polarity	Part Number				
400/90	6P+E	19 64 061 ISV	19 64 061 ISV	19 64 061 ISV	19 68 061 ISV	
	+ accessory :	87 9A 053	87 9A 087	65 9A 013D35*	65 9A 013D35*	

### DS7C9 : 150 A

U/I **	Polarity	Part Number				
500/150	6P+E	39 94 061	39 94 061	39 94 061	39 98 061	
	6P+E + 2 aux.	39 94 061 172	39 94 061 172	39 94 061 172	39 98 061 172	
	+ accessory :	39 2A 053	39 2A 027	39 2A 013	39 2A 013	

\* D35 = Cable dia. 25 to 35 mm

D45 = Cable dia. 35 to 45 mm

\*\* Maximum voltage (V) / Rated current (A)

**If you cannot see the exact configuration you need, please contact us.**


## *This is more than a plug and socket ....*

The DECONTACTOR™ is a plug and socket with an integral load-break isolating switch. Combining these functions into the same unit makes the decontactor a safe, reliable and compact disconnection device for motors and power supplies, saving you time and cost. **It is the ideal electrical connector for the water treatment industry.**



## *Innovation for safety and flexibility*

For over fifty years, the Marechal decontactor has been known for safety and flexibility. With 7% revenue spent on R&D, we continue to innovate and offer the products to meet the varying needs of our customers.

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 **electric**



**WWW.CABLEJOINTS.CO.UK**

**THORNE & DERRICK UK**

**TEL 0044 191 490 1547 FAX 0044 477 5371**

**TEL 0044 117 977 4647 FAX 0044 977 5582**

**WWW.THORNEANDDERRICK.CO.UK**



BECMA is an international association of manufacturers of butt-contact connectors. It is the only organisation that is able to guarantee that when a plug made by one member manufacturer is mated with a socket made by another complies with the European Low Voltage Directive. BECMA oversees the compliance of mixed plugs and sockets between its members.  
[www.becma.ch](http://www.becma.ch)