

Decontactors & connectors for specific motor connections

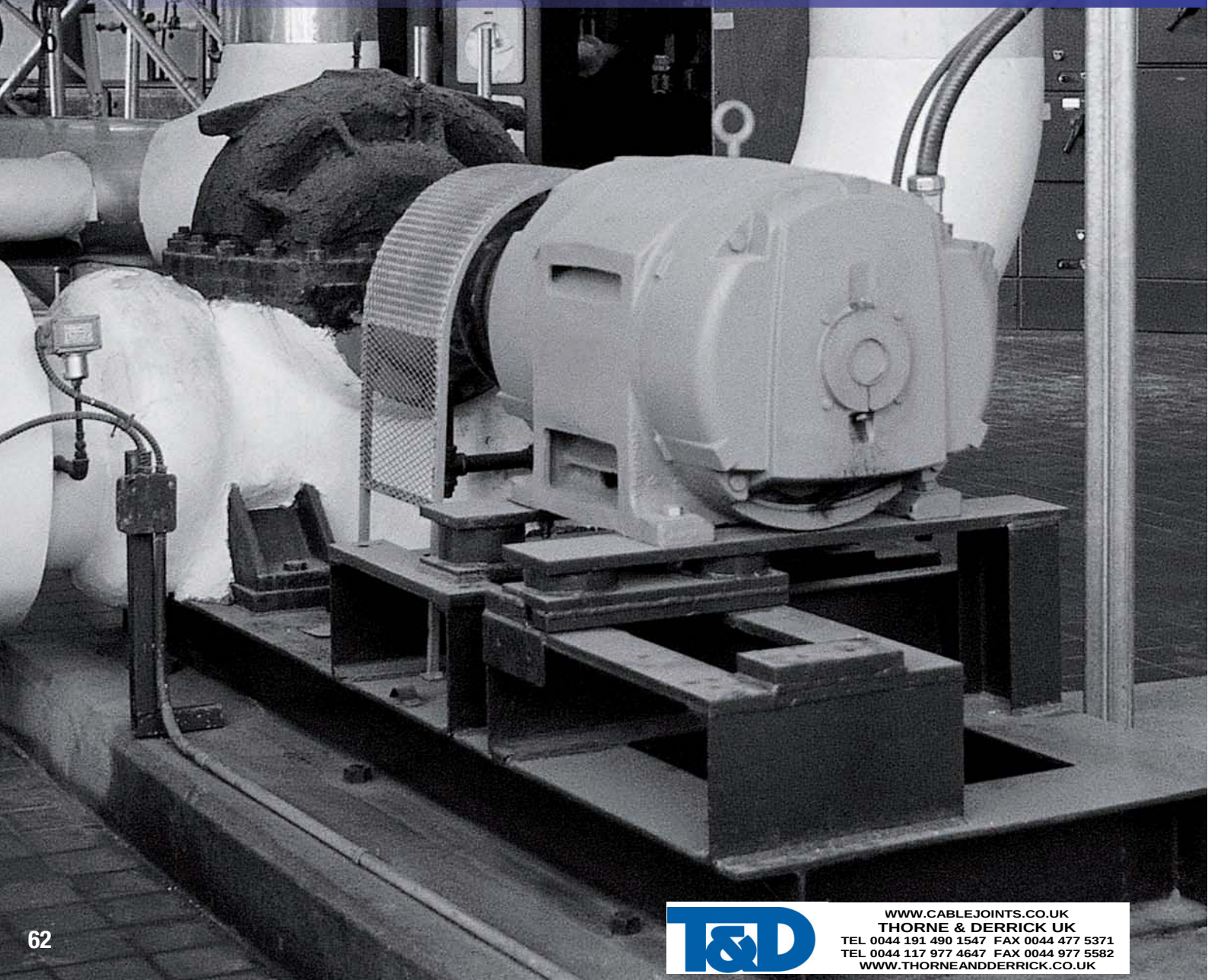
Star-delta

p. 63

DB - disconnectable motor switches

p. 72

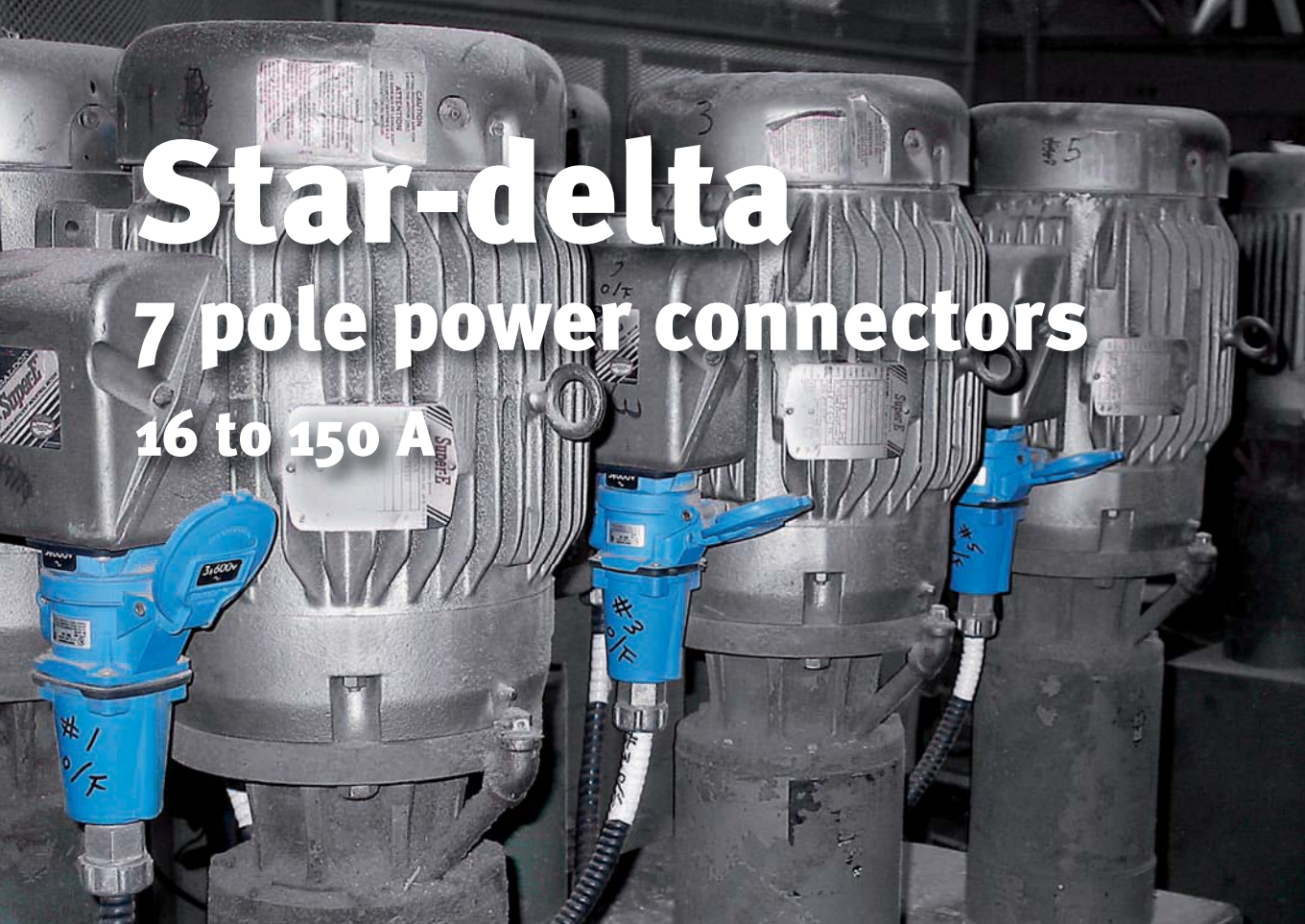
Note : DSN, DS and DN decontactors are also used to connect motors. The two product families described here are designed for more specific motor applications



Star-delta

7 pole power connectors

16 to 150 A



- Star-delta motor connections
- Motor connections with two speed regimes
- Simpler and safer than hard wiring
- Watertight and resistant to overloads

Electrical features

	PN 7C	DN 20C	DN 9C	DSN 7C3	DS 7C3	DN 7C6	DS 7C9
I _{max} per phase	16 A	25 A	30 A	32 A	50 A	90 A	150 A
U _{max}	500 V	415 V	415 V	500 V	500 V	415 V	500 V
Auxiliary contacts (max.)	0	3	2	0	3	0	3
Same dimensions as	PN	DN6	DN1	DSN3	DS6	DN6	DS2
AC-22 switching capability	-	25 A / 415 V	30 A / 415 V	32 A / 500 V	50 A / 500 V	90 A / 415 V	-
Keying positions (°)	5	4	2	-	5	-	-
Ambient temperature	-40 °C to +60 °C						
Wiring (terminals)	to be screwed						

(°) To discriminate between different power supplies and applications

When a motor starts, the brief overload generated is many times greater than the nominal current. While this overload should not affect properly designed motors, it could be damaging to most connectors.

Thanks to its silver-nickel butt-contact technology, the deconnector withstands these high and repeated overloads without over-heating or change in its performance. The deconnector is thus ideally suited for motor connections, even for motors that have to start frequently.

7 pole connectors

Marechal decontactors make it possible to connect and disconnect motors in total safety.



Typical configurations



**Wall mounting
Socket-outlet**



Coupler socket



Plug



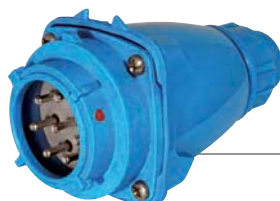
**Wall mounting
appliance inlet**

	Umax (V) / I _{max} (A)	Configuration	Part no.			
PN 7C - 16 A	500 / 16	Socket-outlet 6P+E	01 P4 061	01 P4 061	01 P8 061	01 P8 061
		Accessory	09 NA 653	01 NA 013	01 NA 013	01 NA 027
DN 20C - 25 A	400 / 25	Socket-outlet 6P+E+3 aux.	19 64 091 263	19 64 091 263	19 68 091 263	19 68 091 263
		Accessory	87 9A 053	65 9A 013 D25	65 9A 013 D25	87 9A 087
DN 9C - 30 A	400 / 30	Socket-outlet 6P+E	19 14 061	19 14 061	19 18 061	19 18 061
		Socket-outlet 6P+E+2 aux.	19 14 081 312	19 14 081 312	19 18 081 312	19 18 081 312
		Accessory	87 3A 053	19 1A 013	19 1A 013	87 3A 087
DSN 7C3 - 32 A	500 / 32	Socket-outlet 6P+E	61 34 061	61 34 061	61 38 061	61 38 061
		Accessory	51 BA 058	61 3A 013	61 3A 013	61 3A 027
DS 7C3 - 50 A	500 / 50	Socket-outlet 6P+E	39 34 561	39 34 561	39 38 561	39 38 561
		Socket-outlet 6P+E+2 aux.	39 34 561 172	39 34 561 172	39 38 561 172	39 38 561 172
		Socket-outlet 6P+E+3 aux.	39 34 561 263	39 34 561 263	39 38 561 263	39 38 561 263
		Accessory	87 6A 053	31 6A 013	31 6A 013	87 6A 087
DN 7C6 - 90 A	400 / 90	Socket-outlet 6P+E	19 64 061 ISV	19 64 061 ISV	19 68 061 ISV	19 68 061 ISV
		Accessory	87 9A 053	65 9A 013 D45	65 9A 013 D45	87 9A 087
DS 7C9 - 150 A	500 / 150	Socket-outlet 6P+E	39 94 061	39 94 061	39 98 061	39 98 061
		Socket-outlet 6P+E+2 aux.	39 94 061 172	39 94 061 172	39 98 061 172	39 98 061 172
		Accessory	39 2A 053	39 2A 013	39 2A 013	39 2A 027

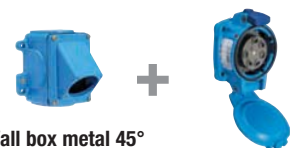


Typical configuration

Wall mounting socket



Plug



Wall box metal 45°
09 NA 653 418

Socket-outlet
01 P4 061



Handle poly straight
01 NA 013

Inlet
01 P8 061

Connector up to
7 poles

UL certified



Main features:

Rated current (with wiring according to standard)	16 A
Maximum voltage	500 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Resistance to shocks (poly casing)	IK08
Resistance to shocks (metal casing)	IK09

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	1 - 4 mm ²
Wiring (terminals)	to be screwed
Keying positions	5

Socket-outlet (female) PBT



Umax (V) / Imax (A)	Polarity	Part no.
500 / 16	6P+E	01 P4 061

Inlet (male) PBT



Umax (V) / Imax (A)	Polarity	Part no.
500 / 16	6P+E	01 P8 061



Version with IP55 self-closing lid:
Choose your part-numbers
and replace the letter P with
the letter H.

Socket-outlet (female) metal



Umax (V) / Imax (A)	Polarity	Part no.
500 / 16	6P+E	09 P4 061

Inlet (male) metal



Umax (V) / Imax (A)	Polarity	Part no.
500 / 16	6P+E	09 P8 061

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the PN. See page 59.

Options & accessories

	Part no.
180° opening lid	Socket no. + 10
Self-returning lid	Socket no. + R
180° opening and self-returning lid	Socket no. + 18



Locking with 3
padlocks (Ø 4 mm)
without shaft (padlocks
not supplied)

Socket no. + 843



Screw locking imprint
BTR 2,5
Socket no. + 22



IP67 inlet cap
01 NA 126



Typical configuration

Wall mounting socket



Plug



Wall box metal +
sleeve metal 30°
19 6A 653 419



Socket-outlet
19 64 091 263



Handle straight
elastomere
65 9A 013 D25



Inlet
19 68 091 263

7 pole plug and socket for power supply to motors in star-delta modes, with integral load-break switch.

Main features:

Rated current (with wiring according to standard)	25 A
Maximum voltage	415 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	1 - 6 mm ²
Stranded wiring (min-max)	1,5 - 6 mm ²
Wiring (terminals)	to be screwed
Keying positions	4

DN20C decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	25 A / 415 V
Load-break capability according to EN 60947-3	
AC-22	25 A / 415 V

Socket-outlet (female)



Inlet (male)



For plugs and socket-outlets with auxiliary contacts: please contact us for more options

Umax (V) / Imax (A)	Polarity	Part no.	Umax (V) / Imax (A)	Polarity	Part no.
415 / 25	6P+E+3 aux.	19 64 091 263	415 / 25	6P+E+3 aux.	19 68 091 263

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DN6. See page 47.

Options & accessories

	Part no.
180° opening lid	Socket no. + 10
Self-returning lid	Socket no. + R
180° opening and self-returning lid	Socket no. + 18
Rubber cover for metal latch	Socket no. + 834
IP66/IP67 watertightness (socket & inlet)	Part no. + 677



Locking with shaft for
3 padlocks - Ø 8 mm
(padlocks not supplied)
Socket no + 844



Stop button
Socket no + 453



IP54 inlet cap
19 6A 126



Closing mechanism
19 6A 346



Typical configuration

Wall mounting socket



Plug



Wall box metal 30°
19 1A 653 419



Socket-outlet
19 14 081 312



Handle poly straight
19 1A 013



Inlet
19 18 081 312

7 pole plug and socket for power supply to motors in star-delta modes, with integral load-break switch.

Main features:

Rated current (with wiring according to standard)	30 A
Maximum voltage	415 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks	IK09
Resistance to shocks	-40 °C to +60 °C

Flexible wiring (min-max)	1 - 6 mm²
Stranded wiring (min-max)	1,5 - 6 mm²
Wiring (terminals)	to be screwed
Keying positions	2

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	30 A / 415 V
Load-break capability according to EN 60947-3	
AC-22	30 A / 415 V

DN9C decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Socket-outlet (female)



Inlet (male)



For plugs and socket-outlets with auxiliary contacts: please contact us for more options

Umax (V) / Imax (A)	Polarity	Part no.
415 / 30	6P+E	19 14 061
415 / 30	6P+E+2 aux.	19 14 081 312

Umax (V) / Imax (A)	Polarity	Part no.
415 / 30	6P+E	19 18 061
415 / 30	6P+E+2 aux.	19 18 081 312

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DN1. See page 43

Options & accessories

	Part no.
180° opening lid	Socket no. + 10
Self-returning lid	Socket no. + R
180° opening and self-returning lid	Socket no. + 18
IP66/IP67 watertightness (socket & inlet)	Part no. + 677



Locking with shaft for 3 padlocks - Ø 8 mm (padlocks not supplied)
Socket no + 844



Stop button
Socket no + 453



IP54 inlet cap
19 1A 126

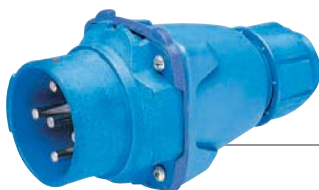


Rubber cover for metal latch
Socket no + 834



Typical configuration

Wall mounting socket



Plug



Wall box poly 70°
51 BA 058



Socket-outlet
61 34 061



Handle poly with poly
cable gland
61 3A 253 32P



Inlet
61 38 061

7 pole plug and socket for power supply to motors in star-delta modes, with integral load-break switch.

Main features:

Rated current (with wiring according to standard)	32 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	500 V	Flexible wiring (min-max)	2,5 - 6 mm²
IP protection lid closed	IP66/IP67	Stranded wiring (min-max)	2,5 - 10 mm²
IP protection connected plug	IP66/IP67	Wiring (terminals)	to be screwed
Resistance to shocks	IK08		

The DSN7C3 decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	32 A / 500 V
Load-break capability according to EN 60947-3	
AC-22	32 A / 500 V

Socket-outlet (female)



Inlet (male)



For plugs and socket-outlets with auxiliary contacts: please contact us for more options

Umax (V) / Imax (A)	Polarity	Part no.	Umax (V) / Imax (A)	Polarity	Part no.
500 / 32	6P+E	61 34 061	500 / 32	6P+E	61 38 061

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DSN3. See page 13

Options & accessories

	Part no.
180° opening lid	Socket no. + 10
Self-returning lid	Socket no. + R
180° opening and self-returning lid	Socket no. + 18



Locking with shaft for
3 padlocks - Ø 4 mm
(padlocks not supplied)
Socket no + 844



Stop button
Socket no + 453



IP67 inlet cap
19 1A 126



Closing mechanism (finger
draw plates sold per unit)
61 3A 346

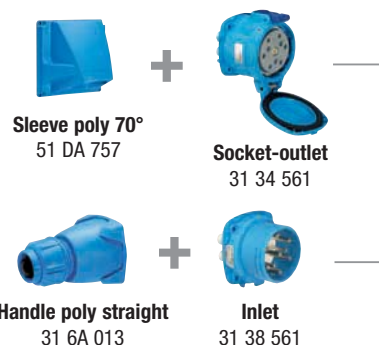


Typical configuration

Inclined socket



Fiche



7 pole plug and socket for power supply to motors in star-delta modes, with integral load-break switch.

Main features:

Rated current (with wiring according to standard)	50 A
Maximum voltage	500 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks (poly casing)	IK08
Resistance to shocks (metal casing)	IK09

Ambient temperature	-40 °C to +60 °C
Flexible wiring (min-max)	2,5 - 10 mm ²
Stranded wiring (min-max)	2,5 - 16 mm ²
Wiring (terminals)	à visser
Keying positions	5

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	50 A / 500 V
Load-break capability according to EN 60947-3	
AC-22	50 A / 500 V

The DS7C3 deconnector outperforms the endurance and load-break requirements of EN 60309-1.

Socket-outlet (female) metal



Inlet (male) metal



Socles et connecteurs avec contacts auxiliaires :
Veuillez nous contacter pour plus d'options

Umax (V) / Imax (A)	Polarity	Part no.
500 / 50	6P+E	39 34 561
500 / 50	6P+E+2 aux.	39 34 561 172
500 / 50	6P+E+3 aux.	39 34 561 263

Umax (V) / Imax (A)	Polarity	Part no.
500 / 50	6P+E	39 38 561
500 / 50	6P+E+2 aux.	39 38 561 172
500 / 50	6P+E+3 aux.	39 38 561 263

For GRP casing, replace 39 on part no. by 31. Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DS6. See page 27

Options & accessories

	Part no.
180° opening lid	Socket no. + 10
Self-returning lid	Socket no. + R
180° opening and self-returning lid	Socket no. + 18
Rubber cover for polyester latch	Socket no. + 833
IP66/IP67 watertightness (socket & inlet)	Part no. + 600



Locking with shaft for 3 padlocks - Ø 8 mm (padlocks not supplied)
Socket no + 844



Stop button
Socket no + 453



IP67 inlet cap
31 6A 126



Self-closing lid for inlet
31 6A 226

DN 7C6

DECONTACTOR™

METAL CASING

up to **90 A**

IP55



emple de configuration :

Wall mounting socket



Plug



Wall box metal 20°
19 6A 053



Socket-outlet
19 64 061 ISV



Handle straight elast.
65 9A 013D45



Inlet
19 68 061 ISV

7 pole plug and socket for power supply to motors in star-delta modes, with integral load-break switch.

ain features:

Rated current (with wiring according to standard)	90 A	Flexible wiring (min-max)	10 - 25 mm ²
Maximum voltage	415 V	Stranded wiring (min-max)	10 - 35 mm ²
IP protection lid closed	IP55	Wiring (terminals)	to be screwed
IP protection connected plug	IP54	Keying positions	-
Resistance to shocks	IK09		
Ambient temperature	-40 °C to +60 °C		

Load-break capability of the DECONTACTOR™ :

Comply with EN 60309-1	90 A / 415 V
Load-break capability according to EN 60947-3	
AC-22	90 A / 415 V

DN7C6 decontactor outperforms the endurance and load-break requirements of EN 60309-1.

Socket-outlet (female)



Inlet (male)



For plugs and socket-outlets: please contact us for more options

Umax (V) / Imax (A)	Polarity	Part no.	Umax (V) / Imax (A)	Polarity	Part no.
415 / 90	6P+E	19 64 061 ISV	415 / 90	6P+E	19 68 061 ISV

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DN6. See page 47

Options & accessories

	Part no.
180° opening lid	Socket no. + 10
Self-returning lid	Socket no. + R
180° opening and self-returning lid	Socket no. + 18
Rubber cover for metal latch	Socket no. + 834
IP66/IP67 watertightness (socket & inlet)	Part no. + 677



Locking with shaft for 3 padlocks - Ø 8 mm (padlocks not supplied)
Socket no + 844



Stop button
Socket no + 453



IP54 inlet cap
19 6A 126



Closing mechanism
19 6A 346



Exemple de configuration :

Wall mounting socket



Plug



Wall box poly 30°
39 2A 053



Socket-outlet
39 94 061



Handle straight neoprene
39 2A 013



Inlet
39 98 061

7 pole plug and socket for power supply to motors in star-delta modes equipped with a locking screw to prevent accidental disconnection of the plug in charge.

Main features:

Rated current (with wiring according to standard)	150 A
Maximum voltage (with Earth contact)	500 V
IP protection lid closed	IP55
IP protection connected plug	IP54
Resistance to shocks (metal casing)	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	16 - 50 mm ²
Stranded wiring (min-max)	25 - 70 mm ²
Wiring (terminals)	to be screwed
Keying positions	-

Socket-outlet (female)



Inlet (male)



For plugs and socket-outlets with auxiliary contacts: please contact us for more options

Umax (V) / Imax (A)	Polarity	Part no.
500 / 150	6P+E	39 94 061
500 / 150	6P+E+2 aux.	39 94 061 172

Umax (V) / Imax (A)	Polarity	Part no.
500 / 150	6P+E	39 98 061
500 / 150	6P+E+2 aux.	39 98 061 172

Accessories for mounting such as wall boxes, adapter sleeves and handles are the same as the ones for the DS2. See page 33

Options & accessories

	Part no.
180° opening lid	Socket no. + 10
Self-returning lid	Socket no. + R
180° opening and self-returning lid	Socket no. + 18
IP66/IP67 watertightness (socket & inlet)	Part no. + 600



Locking with shaft for 3 padlocks - Ø 8 mm (padlocks not supplied)
Socket no + 844



Stop button
Socket no + 453



IP67 inlet cap
31 2A 126



Rubber cover for metal latch
Socket no + 835

DB

7,5 kW
22 kW
45 kW

- AC-3 motor switch
- Frequent motor starts
- IP66/IP67 as standard feature
- Replace systems comprising a switch and a connector



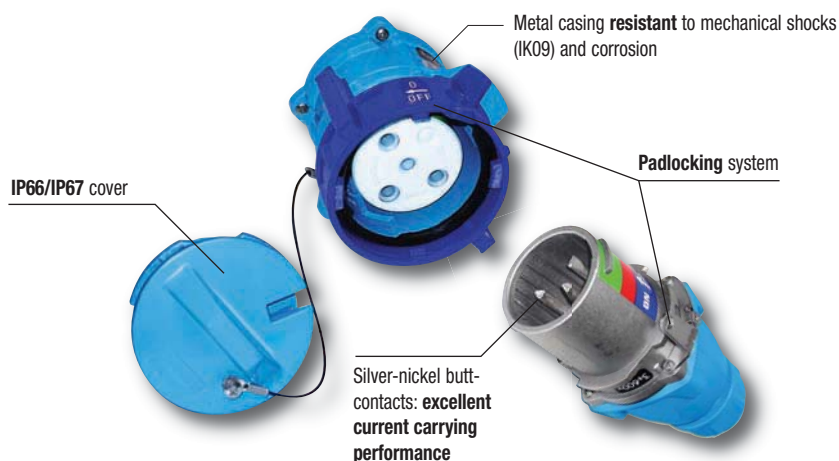
SPECIFICATION

IP 67 disconnectable motor switch - AC3 utilisation category according to IEC / EN 60947-3 standard.

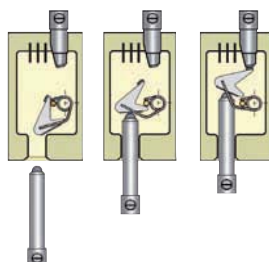
Technical data available at:
www.marechal.com

DB disconnectable motor switches combine the functions of switch-engine cutoff switch and plug and socket-outlet. They guarantee the safety of persons during an operation on the load (motor load or highly inductive).

Mechanical features

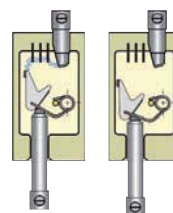


Connection:



Under spring pressure, the intermediate part escapes from the stop (yellow) and rocks to connect with the live socket contact and produce independent making. The padlock system prevents accidental pull-out of the plug.

Disconnection:



When the padlock is freed it is possible to pull out the plug. Under spring pressure, the intermediate part rocks from the live socket contact and the arc is split by the three blades. Arcing is thus reduced by this independent break.

LOAD-BREAK SEPARABLE MOTOR SWITCH



Pumps connection



Pumps in wet atmosphere



Military application



External power supply for water treatment

Electrical features

AC-3 motor switch

	DB3	DB6	DB9
AC-3 load-break capability	7,5 kW	22 kW	45 kW
I _{max}	40 A	75 A	125 A
U _{max}	690 V	690 V	690 V
Casing material	metal	metal	metal
Keying positions (*)	24	24	24
Ambient temperature	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C
Short-circuit current I _{cc}	200 kA	200 kA	200 kA

(*) To discriminate between different power supplies and applications

Regulatory features

DB decontactors comply with:

- The European Low Voltage Directive 2006/95/CE,
- The European 'Machine Directive' regarding equipment isolation,
- The French decree n°88-1056 dated 14th November 1988,
- The French NF C 15-100 standard,
- The decrees relating to workers' protection in Belgium, Spain and Italy,
- CEI 60309-1 & CEI 60309-4 European and International standards (plugs and socket-outlets for industrial purposes)
- The UL 1682, UL 2682 and UL 98/508 standards
- The load breaking capacity according to utilisation category AC-3 of EN 60947-3 switch rated standard.

Also certified by VERITAS LCIE, UL, AS, VDE and CSA (French, Us, Australian, German & Canadian) and by BUREAU VERITAS MARINE inspection laboratories.



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DB3

DECONTACTOR™ for motors
METAL CASING

up to **40 A**
& **7,5 kW**

IP66
IP67

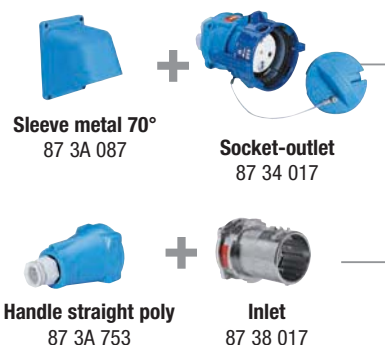


**AC-3 motor switch
according to EN 60947-3
switch standard**

Typical configuration

Inclined socket

Plug



Main features:

Rated current (with wiring according to standard)	40 A
Maximum voltage	690 V
IP protection lid closed	IP66 / IP67
IP protection connected plug	IP66 / IP67
Resistance to shocks	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	2,5 - 6 mm ²
Stranded wiring (min-max)	2,5 - 10 mm ²
Pre-wired auxiliary contacts (5A)	1,5 mm ²
Keying positions	24

Load-break capability of the DECONTACTOR™:

Comply with EN 60309-1	40 A / 690 V
Rated powers (AC-3 load-break capacity according to EN 60947-3):	

3 kW up to 230 V - 1P
5,5 kW up to 230 V - 3P
7,5 kW up to 400 V - 3P
7,5 kW up to 500 V - 3P
7,5 kW up to 690 V - 3P

Short-circuit current Icc	200 kA
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Socket-outlet (female)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 34 033
220 - 250 V	1P+N+E	87 34 015
380 - 440 V	3P+E	87 34 013
380 - 440 V	3P+N+E	87 34 017
660 - 690 V	3P+E	87 34 193
660 - 690 V	3P+N+E	87 34 197

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 38 033
220 - 250 V	1P+N+E	87 38 015
380 - 440 V	3P+E	87 38 013
380 - 440 V	3P+N+E	87 38 017
660 - 690 V	3P+E	87 38 193
660 - 690 V	3P+N+E	87 38 197

**Other voltages and polarities
are available on request**
(See technical manual p. 199)

Socket-outlet with auxiliary contacts:

With 2 auxiliary contacts (5A / 400 V)	Socket no. + 172
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Inlet with auxiliary contacts:

With 2 auxiliary contacts (5A / 400 V)	Inlet no. + 172
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Boxes

Cable gland not included



Wall box +
sleeve metal 70°



Wall box +
sleeve metal 30°



Wall box +
straight metal sleeve

Entry			
M20	87 3A 053 417	87 3A 653 417	87 3A 095 417
M25	87 3A 053	87 3A 653	87 3A 095
M32	87 3A 053 419	87 3A 653 419	87 3A 095 419
M40	87 3A 053 420	87 3A 653 420	87 3A 095 420

It is possible to drill several entries for PE to have a separate cable for the auxiliary.

Sleeves



Inclined
metal 70°



Inclined
metal 30°



Straight
metal

87 3A 087	39 3A 027	87 3A 127
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You can find the drawing of the bold printed part-numbers on pages 80 to 81.

Handles



Straight
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

10-30 mm	87 3A 013	5-12 mm	87 3A 253 20P	7-13 mm	87 3A 953 20M	M20	87 3A 253 417
		9-18 mm	87 3A 753	8-16 mm	87 3A 963	M25	87 3A 253 418
		14-25 mm	87 3A 253 32P	16-24 mm	87 3A 953 32M	M32	87 3A 253 419
		18-32 mm	87 3A 253 40P	22-32 mm	87 3A 953 40M	M40	87 3A 253 420

Options & accessories

	Part no.
Inlet cap	87 3A 126



Padlocking device from
1 to 6 padlocks
87 3A 541



Inlet cap
87 3A 126



Padlocking

From left to right:
Padlocked in OFF position
Padlocked in ON position
Socket-outlet padlocked with closed cover
Inlet padlocked

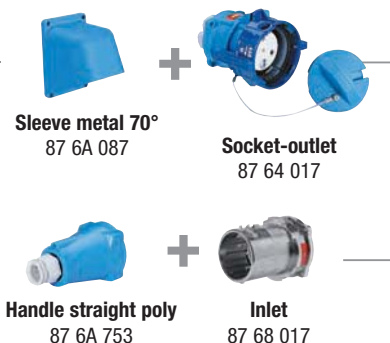


AC-3 motor switch according to EN 60947-3 switch standard

Typical configuration

Inclined socket

Plug



Main features:

Rated current (with wiring according to standard)	75 A
Maximum voltage	690 V
IP protection lid closed	IP66 / IP67
IP protection connected plug	IP66 / IP67
Resistance to shocks	IK09
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	10 - 25 mm ²
Stranded wiring (min-max)	16 - 35 mm ²
Pre-wired auxiliary contacts (5A)	1,5 mm ²
Keying positions	24

Load-break capability of the DECONTACTOR™:

Comply with EN 60309-1	75 A / 690 V
------------------------	--------------

Rated powers (AC-3 load-break capacity according to EN 60947-3):

7,5 kW up to 230 V - 1P
11 kW up to 230 V - 3P
15 kW up to 400 V - 3P
15 kW up to 500 V - 3P
22 kW up to 690 V - 3P

Short-circuit current Icc	200 kA
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Socket-outlet (female)



Inlet (male)



Other voltages and polarities are available on request (See technical manual p. 199)

Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 64 033
220 - 250 V	1P+N+E	87 64 015
380 - 440 V	3P+E	87 64 013
380 - 440 V	3P+N+E	87 64 017
660 - 690 V	3P+E	87 64 193
660 - 690 V	3P+N+E	87 64 197

Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 68 033
220 - 250 V	1P+N+E	87 68 015
380 - 440 V	3P+E	87 68 013
380 - 440 V	3P+N+E	87 68 017
660 - 690 V	3P+E	87 68 193
660 - 690 V	3P+N+E	87 68 197

Socket-outlet with auxiliary contacts:

With 2 auxiliary contacts (5A / 400 V)	Socket no. + 172
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Inlet with auxiliary contacts:

With 2 auxiliary contacts (5A / 400 V)	Inlet no. + 172
--	-----------------

Boxes

Cable gland not included



Wall box metal +
metal sleeve 70°



Wall box +
metal sleeve 30°



Wall box +
straight metal sleeve

Entry			
M25	87 6A 053 418	87 6A 653 418	87 6A 095 418
M32	87 6A 053 419	87 6A 653 419	87 6A 095 419
M40	87 6A 053	87 6A 653	87 6A 095
M50	87 6A 053 429	87 6A 653 429	87 6A 095 429

It is possible to drill several entries for PE to have a separate cable for the auxiliary.

Sleeves



Inclined
metal 70°



Inclined
metal 30°



Straight
metal

87 6A 087	39 6A 027	87 6A 127
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You can find the drawing of the bold printed part-numbers on pages 80 to 81.

Handles



Straight
poly



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight poly without cable gland
with metric threaded entry

13 - 35 mm	87 6A 013	9 - 18 mm	87 6A 253 25P	8 - 16 mm	87 6A 953 25M	M25	87 6A 253 418
		14 - 25 mm	87 6A 253 32P	16 - 24 mm	87 6A 953 32M	M32	87 6A 253 419
		18 - 32 mm	87 6A 753	22 - 32 mm	87 6A 963	M40	87 6A 253 420
		24 - 38,5 mm	87 6A 253 50P	34 - 44 mm	87 6A 953 50M	M40	87 6A 253 429

Options & accessories

	Part no.
Inlet cap	87 6A 126



Padlocking device from
1 to 6 padlocks
87 3A 541



Inlet cap
87 6A 126



The DB's butt-contact technology

The DB's load-break capability is rated as AC-3 category motor switch and can make and break highly inductive loads. The two staged contacts are made with silver-nickel pads.



Under spring pressure, the intermediate part rocks to make the contact. The making speed is independent from plug operating speed.



When the plug is pulled out, the spring makes the intermediate part rock to separate from the contact. The three blades split the arc.



Typical configuration

Inclined socket

Plug



**AC-3 motor switch
according to EN 60947-3
switch standard**

Caractéristiques essentielles :

Rated current (with wiring according to standard)	125 A
Maximum voltage	690 V
IP protection lid closed	IP66 / IP67
IP protection connected plug	IP66 / IP67
Resistance to shocks	IK09
Ambient temperature	-40 °C à +60 °C

Flexible wiring (min-max)	16 - 50 mm ²
Stranded wiring (min-max)	25 - 70 mm ²
Pre-wired auxiliary contacts (5A)	1,5 mm ²
Keying positions	24

Load-break capability of the DECONTACTOR™:

Comply with EN 60309-1	125 A / 690 V
------------------------	---------------

Rated powers (AC-3 load-break capacity according to EN 60947-3):

15 kW up to 230 V - 1P
22 kW up to 230 V - 3P
30 kW up to 400 V - 3P
30 kW up to 500 V - 3P
45 kW up to 690 V - 3P

Short-circuit current Icc	200 kA
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Socket-outlet (female)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 94 033
220 - 250 V	1P+N+E	87 94 015
380 - 440 V	3P+E	87 94 013
380 - 440 V	3P+N+E *	87 94 017
660 - 690 V	3P+E	87 94 193
660 - 690 V	3P+N+E	87 94 197

Socket-outlet with auxiliary contacts:

With 4 auxiliary contacts (5A / 400 V)	Socket no. + 264
--	------------------

* Auxiliary contacts non available for 3P+N+E configuration

Inlet (male)



Voltage 50 Hz	Polarity	Part no.
190 - 230 V	3P+E	87 98 033
220 - 250 V	1P+N+E	87 98 015
380 - 440 V	3P+E	87 98 013
380 - 440 V	3P+N+E *	87 98 017
660 - 690 V	3P+E	87 98 193
660 - 690 V	3P+N+E	87 98 197

Inlet with auxiliary contacts:

With 4 auxiliary contacts (5A / 400 V)	Inlet no. + 264
--	-----------------

**Other voltages and polarities
are available on request
(See technical manual p. 199)**

Boxes

Cable gland not included



Wall box metal +
metal sleeve 70°



Wall box metal +
metal sleeve 30°



Wall box metal +
straight metal sleeve

Entry			
M32	87 9A 053 419	87 9A 653 419	87 9A 095 419
M40	87 9A 053 420	87 9A 653 420	87 9A 095 420
M50	87 9A 053	87 9A 653	87 9A 095
M63	87 9A 053 463	87 9A 653 463	87 9A 095 463

It is possible to drill several entries for PE to have a separate cable for the auxiliary.

Sleeves



Inclined
metal 70°



Inclined
metal 30°



Straight
metal

87 9A 087

39 9A 027

87 9A 127

You can find the drawing of the bold printed part-numbers on pages 80 to 81.

Handles



Straight
elastomere



Straight poly
with poly cable gland



Straight metal
with metal cable gland



Straight Poly without cable gland
with metric threaded entry

25 - 35 mm	65 9A 013 D35	35 - 48,5 mm	61 9A 253 63M	22 - 32 mm	87 9A 953 40M	M63	61 9A 253 463
35 - 45 mm	65 9A 013 D45			34 - 44 mm	87 9A 963		
45 - 49 mm	65 9A 013 D49			35 - 48,5 mm	87 9A 953 63M		

Options & accessories

	Part no.
Inlet cap	87 9A 126



Padlocking device from
1 to 6 padlocks
87 3A 541



Inlet cap
87 9A 126



Breaking direct current at 125 A / 500 V

For applications in back-up circuit, **DB9** can safely break high power direct currents: **125 A / 500 V d.c.**

DB disconnectable switches have very high load break capability and offer an attractive solution to break under load and disconnect equipment.

Please feel free to contact us for any special applications that require breaking under load.



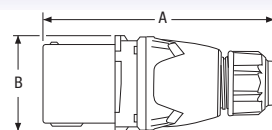
Motor-switch + plug and socket

The DB is especially designed to supply power to motors and any highly inductive loads. Its **AC-3** load-break capability guarantees user safety during intervention on equipment. The colour window and isolator function (physical separation) further enhance safety. The product complies with the European '**Machine Directive**' and save installation cost by combining motor switch, isolator and connector.

Dimensions DB

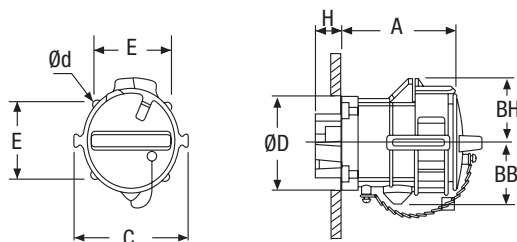
Socket-outlet + Plug

• ØD = Maximum bore diameter



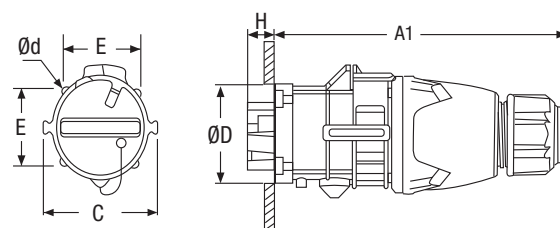
Plug

	A	B
DB3	193	79
DB6	202	99
DB9	310	110



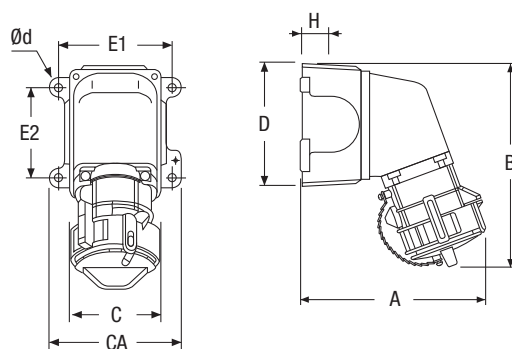
Socket-outlet

	A	BB	BH	C	E	H	Ød	ØD max.
DB3	107	45	45	110	55	26	4,5	54
DB6	121	51	51	123	66	32	5,5	67
DB9	134	63	63	146	81	42	5,5	84



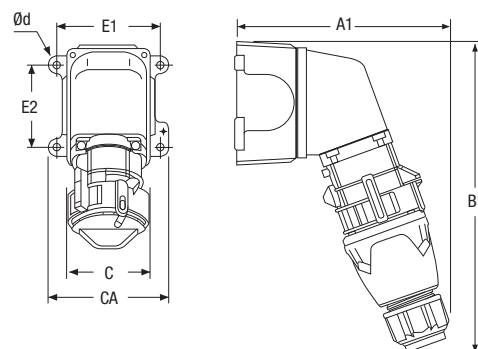
Plug connected in a socket-outlet

	A1	C	E	H	Ød	ØD max.
DB3	213	110	55	26	4,5	54
DB6	229	123	66	32	5,5	67
DB9	341	146	81	42	5,5	84



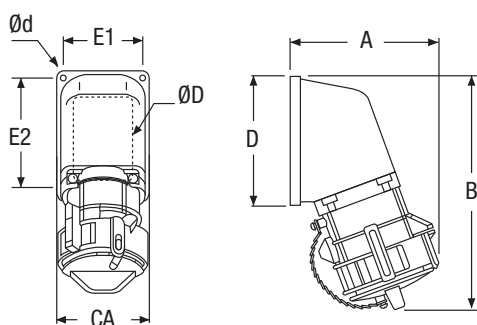
70° wall mounting socket

	A	B	C	CA	D	E1	E2	H	Ød
DB3	196	202	84	110	114	94	70	30	6,5
DB6	234	252	114	145	145	125	97	40	8,5
DB9	273	268	140	190	140	170	108	49	9



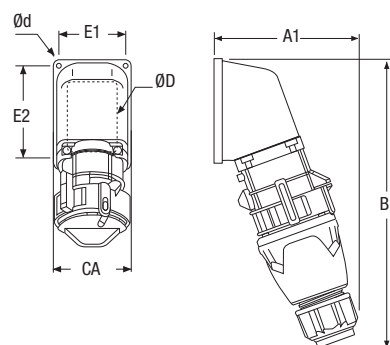
Plug connected in a 70° wall mounting socket

	A1	B1	C	CA	D	E1	E2	H	Ød
DB3	230	296	84	110	114	94	70	30	6,5
DB6	266	347	114	145	145	125	97	40	8,5
DB9	335	452	140	190	140	170	108	49	9



70° inclined socket

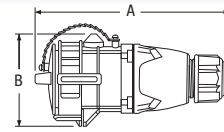
	A	B	CA	D	E1	E2	F	Ød	ØD max.
DB3	133	199	77	106	63	95	40	5,5	60
DB6	155	247	102	136	87	122	50	6,5	70
DB9	181	268	140	140	124	124	61,5	6,5	120



Plug connected in a 70° inclined socket

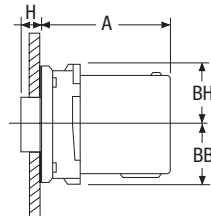
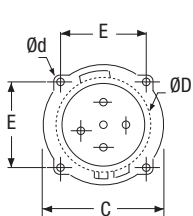
	A1	B1	CA	D	E1	E2	F	Ød	ØD max.
DB3	167	293	77	106	63	95	40	5,5	60
DB6	187	342	102	136	87	122	50	6,5	70
DB9	243	452	140	140	124	124	61,5	6,5	120

Coupler socket + inlet



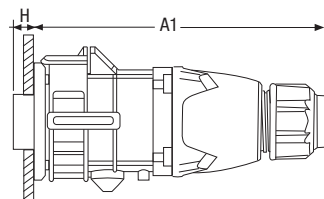
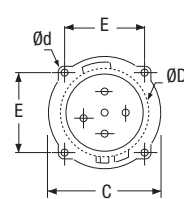
Coupler socket

	A	B
DB3	203	90
DB6	224	102
DB9	324	125



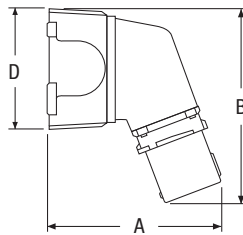
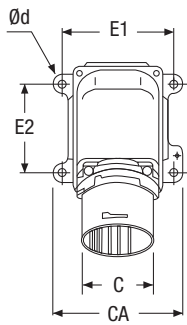
Inlet

	A	BB	BH	C	E	H	Ød	ØD max.
DB3	97	38	41	80	55	18	4,5	54
DB6	99	45	54	93	66	21	5,5	67
DB9	120	53	57	116	81	41	5,5	84



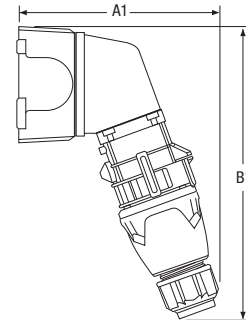
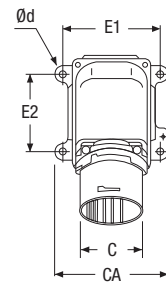
Coupler-socket connected in an inlet

	A1	C	E	H	Ød	ØD max.
DB3	213	80	55	18	4,5	54
DB6	229	93	66	21	5,5	67
DB9	341	116	81	41	5,5	84



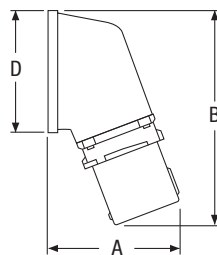
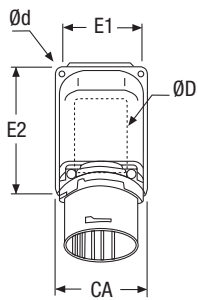
70° wall mounting appliance inlet

	A	B	CA	C	D	E1	E2	Ød
DB3	180	188	110	78	114	94	70	6,5
DB6	214	227	145	91	145	125	97	8,5
DB9	255	251	190	146	140	170	108	9



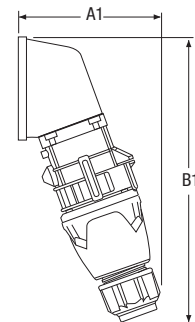
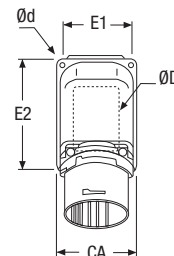
Coupler-socket connected in a 70° wall mounting appliance inlet

	A1	B1	CA	C	D	E1	E2	Ød
DB3	230	296	110	78	114	94	70	6,5
DB6	266	347	145	91	145	125	97	8,5
DB9	345	452	190	146	140	170	108	9



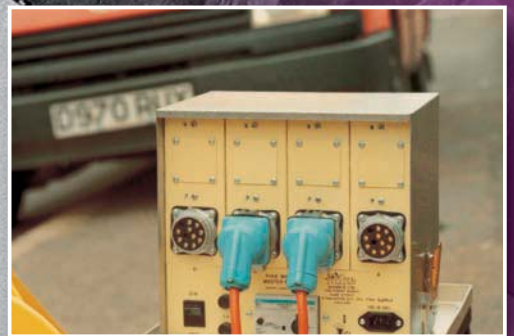
70° inclined appliance inlet

	A	B	CA	D	E1	E2	F	Ød	ØD max.
DB3	117	185	77	106	63	95	40	5,5	60
DB6	136	222	102	136	87	122	50	6,5	70
DB9	163	251	140	140	124	124	61,5	6,5	120



Coupler-socket connected in a 70° inclined appliance inlet

	A1	B1	CA	D	E1	E2	F	Ød	ØD max.
DB3	167	293	77	106	63	95	40	5,5	60
DB6	187	342	102	136	87	122	50	6,5	70
DB9	243	452	140	140	124	124	61,5	6,5	120



Marechal Electric's multicontact connectors are used for signal and control applications such as temporary phone lines, control of overhead cranes.

The solid silver-nickel contacts assure superior conductivity, electrical performance and durability. Also the materials used for the bodies resist extreme conditions in harsh environments.