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DB



**DISCONNECTABLE MOTOR
SWITCH AC-3 UP TO 45 kW**



kW

7.5 kW/22 kW/45 kW

- ▶ AC-3 visible switch for motors
- ▶ Standard IP66/IP67
- ▶ Impact resistant metal casing - IK09
- ▶ LOT0 compliant

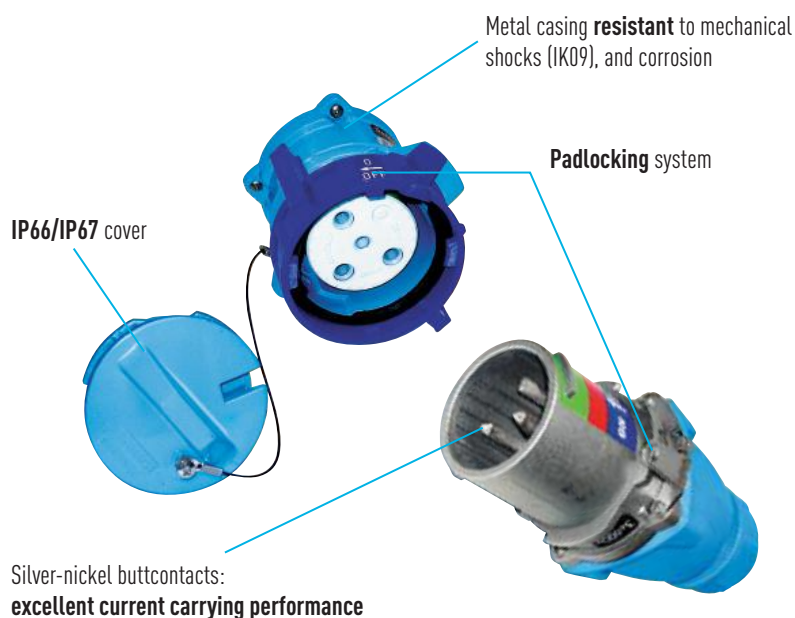
TECHNICAL FEATURES

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 >>>		
Casing material	<<< Metal >>>		
Keying positions ⁽¹⁾	<<< 24 >>>		
Ambient temperature	<<< -40 °C to +60 °C >>>		
Short-circuit current I _{cc}	200 kA	200 kA	200 kA

(1) To distinguish between different power supplies and applications.

MECHANICAL FEATURES



DB disconnectable motor switches are DECONTACTOR™ that comply with:

- The European Low Voltage Directive 2014/35/EU, conformity with the CE marking.
- The European 'Machine Directive' 2006/42/CE regarding equipment isolation.
- The French decree dated 20 December 2011 pertaining to the wiring and operating conditions of movable electrical apparatuses.
- The French NF C 15-100 standard.
- The decrees relating to workers' protection in Belgium, Spain and Italy.
- The requirements of IEC/EN 60309-1 European and international standard (plugs and socket-outlets for industrial purposes), Interlock according to IEC/EN 60309-4 International and European standard
- UL 1682, UL 2682 and UL 98/508 American standards
- The load breaking capacity according to utilisation category AC-3 of IEC/EN 60947-3 standard.

Also certified by VERITAS LCIE, UL, TR CU (GOST) and cCSAus (French, American, Russian and Canadian inspection laboratories).

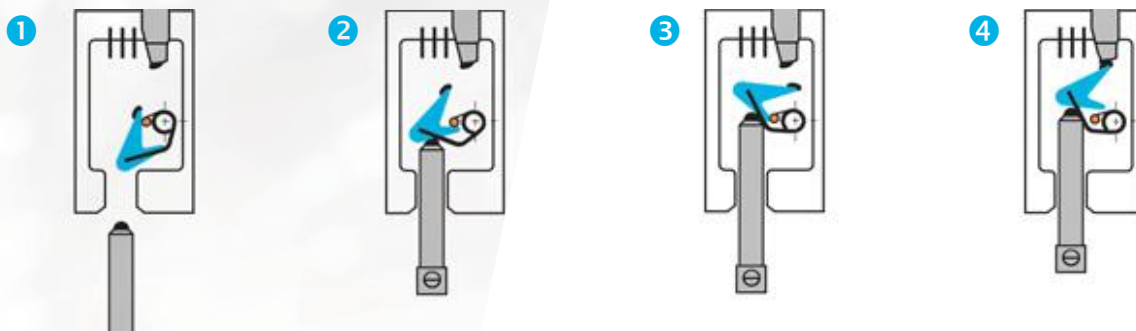
MARECHAL TECHNOLOGY



AC-3 DISCONNECTABLE MOTOR SWITCH

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

LOAD MAKING



Plug and socket contacts are both made of a pin fitted with a solid silver-nickel tip.

When the plug is inserted into the socket, each plug phase contact touches the mobile contact first, also fitted with silver-nickel tips.

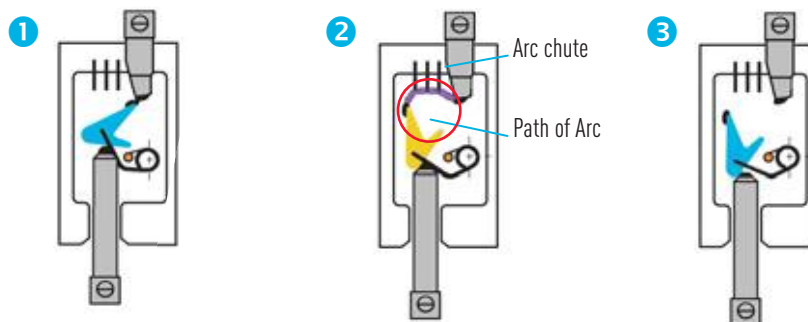
While pushing the plug further, the mobile part moves around a stop and a spring is bent...

Under spring pressure, the intermediate part escapes from the stop and rocks to connect with the live-socket contact.

This is the independent making (off the speed connexion, unlike other DECONTACTOR™ ranges like DS or DSN).

This advantage makes it possible to connect even a motor that is blocked (very strong induced current).

ARC-EXTINGUISHING SYSTEM



In the "on" (I) position, the plug is held by a socket-mounted retaining ring. Turning this ring to the (0) releases the plug, which moves back.

The spring-loaded mobile part abruptly slips from the socket-live contact, and draws the arc across the blowing blades.

Arc extinguished.

This is the independent opening (same as the other DECONTACTOR™ ranges like DS or DSN).



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OPERATING INSTRUCTIONS



When the plug and socket are latched together, the circuit is connected (red color window). The IP67 is reached when the ring is locked to the right.



Turning the socket ring counterclockwise releases the plug and rapidly opens the circuit. (green color window). The plug is ejected to its rest position.



Turning the socket ring counterclockwise by another 10° lets the plug drop down.



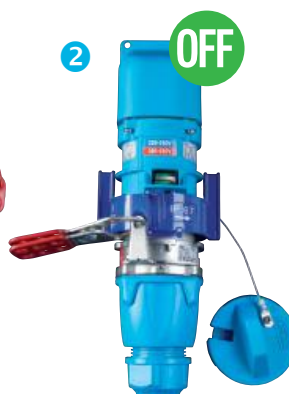
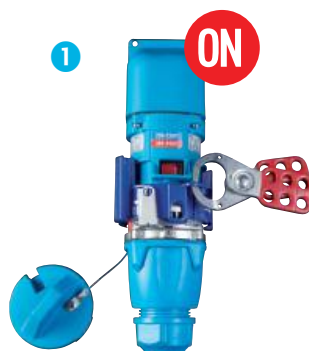
To reconnect:

- insert plug and twist, pushing the plug fully home safety makes the circuit.
- The plug is held in the "on" position by a locking ring.
- Turn the ring to the right, to reach the IP67.

INFOS +

PADLOCKING

- 1 Padlocked in ON position
- 2 Padlocked in OFF position
- 3 Socket-outlet padlocked with closed cover Inlet padlocked





WALL MOUNTING SOCKET DB3



Wall box metal 70°
593C7M25



Socket-outlet
8734017

PLUG DB3



Straight handle poly
513P0D30



Inlet
8738017

MAIN FEATURES

Rated current (with wiring according to standard)	40 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	690 V	Flexible wiring (min-max)	2,5-6 mm ²
IP protection lid closed	IP66/IP67	Stranded wiring (min-max)	2,5-10 mm ²
IP protection plug connected	IP66/IP67	Pre-wired auxiliary contacts (5 A)	1,5 mm ²
Shock resistance	IK09	Keying positions	24

Load-break capability of the DECONTACTOR™

Comply with IEC/EN 60309-1 and IEC/EN 60309-4 standards

40 A/690 V

Rated powers (AC-3 load-breaking capacity according to IEC/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 I_{cc}

200 kA

SOCKET- OUTLET female DB3 (40 A)



INLET male DB3 (40 A)



220-250 V AC	1P+N+E	8734015	8738015
380-440 V AC	3P+E	8734013	8738013
220-250 V AC 380-440 V AC	3P+N+E	8734017	8738017
660-690 V AC	3P+E	8734193	8738193
380-400 V AC 660-690 V AC	3P+N+E	8734197	8738197
Auxiliaries 5 A/400 V AC	+ 2 contacts	Ref. + 172	Ref. + 172

► Other voltages, frequencies and contact configurations are available (see page 10).



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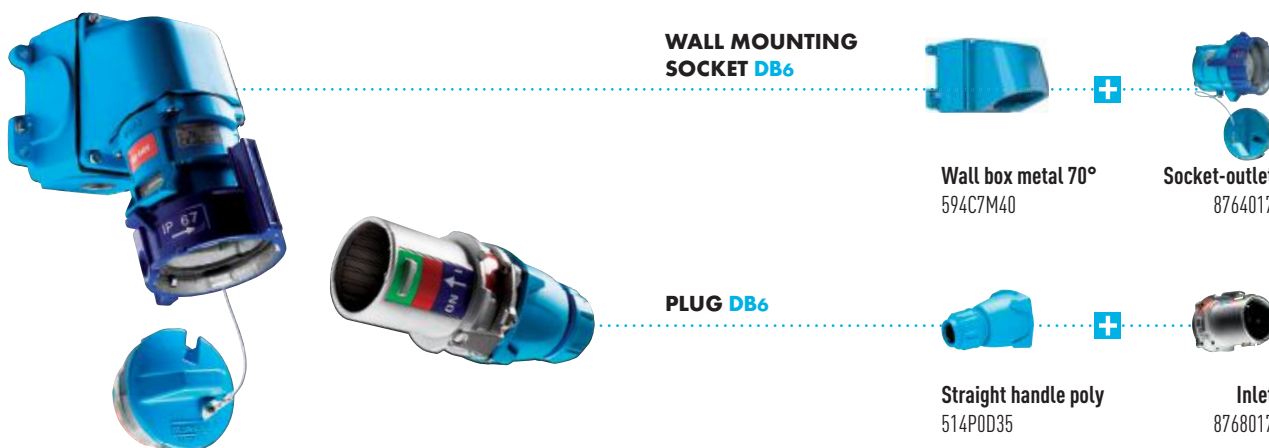
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OPTIONS AND ACCESSORIES

Find the boxes, sleeves and handles at the end of the section page 77.



MAIN FEATURES

Rated current (with wiring according to standard)	75 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	690 V	Flexible wiring (min-max)	10-25 mm²
IP protection lid closed	IP66/IP67	Stranded wiring (min-max)	16-35 mm²
IP protection plug connected	IP66/IP67	Pre-wired auxiliary contacts (5 A)	1,5 mm²
Shock resistance	IK09	Keying positions	24

Load-break capability of the DECONTACTOR™

Comply with IEC/EN 60309-1 and IEC/EN 60309-4 standards

75 A/690 V

Rated powers (AC-3 load-breaking capacity according to IEC/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 I_{cc}

200 kA

**SOCKET-
OUTLET** female
DB6 (75 A)



INLET male
DB6 (75 A)



220-250 V AC	1P+N+E	8764015	8768015
380-440 V AC	3P+E	8764013	8768013
220-250 V AC 380-440 V AC	3P+N+E	8764017	8768017
660-690 V AC	3P+E	8764193	8768193
380-400 V AC 660-690 V AC	3P+N+E	8764197	8768197
Auxiliaries 5 A/400 V AC	+ 2 contacts	Ref. + 172	Ref. + 172

► Other voltages, frequencies and contact configurations are available (see page 10).



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OPTIONS AND ACCESSORIES

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WALL MOUNTING SOCKET DB9



Wall box metal 70°
595C7M50



Socket-outlet
8794017

PLUG DB9



Straight elastomer
555P0D35



Inlet
8798017

MAIN FEATURES

Rated current (with wiring according to standard)	125 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	690 V	Flexible wiring (min-max)	16-50 mm ²
IP protection lid closed	IP66/IP67	Stranded wiring (min-max)	25-70 mm ²
IP protection plug connected	IP66/IP67	Pre-wired auxiliary contacts (5 A)	1,5 mm ²
Shock resistance	IK09	Keying positions	24

Load-break capability of the DECONTACTOR™

Comply with IEC/EN 60309-1 and IEC/EN 60309-4 standards

125 A/690 V

Rated powers (AC-3 load-breaking capacity according to IEC/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 I_{cc}

200 kA

SOCKET- OUTLET female DB9 (125 A)



INLET male DB9 (125 A)



220-250 V AC	1P+N+E	8794015	8798015
380-440 V AC	3P+E	8794013	8798013
220-250 V AC 380-440 V AC	3P+N+E	8794017	8798017
660-690 V AC	3P+E	8794193	8798193
380-400 V AC 660-690 V AC	3P+N+E	8794197	8798197
Auxiliaries 5 A/400 V AC	+ 4 contacts	Ref. + 264	Ref. + 264

► Other voltages, frequencies and contact configurations are available (see page 10).



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OPTIONS (DETAILS ON PAGE 216)

	DB3 size 1	DB6 size 2	DB9 size 3
SAFETY HASP FOR UP TO 6 PADLOCKS			
	873A541	873A541	873A541
INLET CAP			
	873A126	876A126	879A126



ACCESSORIES

(SEE PAGE 238 TO CROSS REFERENCE WITH OLDER PART NUMBERS)

BOXES			DB3 Size 3	DB6 Size 4	DB9 Size 5
METAL BOXES WITH METAL SLEEVE (+ EARTHING WIRE)					
	30°	M20	593C3M20		
	30°	M25	593C3M25	594C3M25	
	30°	M32	593C3M32	594C3M32	595C3M32
	30°	M40	593C3M40	594C3M40	595C3M40
	30°	M50		594C3M50	595C3M50
	30°	M63			595C3M63
	0°	M20	593C0M20		
	0°	M25	593C0M25	594C0M25	
	0°	M32	593C0M32	594C0M32	595C0M32
	0°	M40	593C0M40	594C0M40	595C0M40
	0°	M50		594C0M50	595C0M50
	0°	M63			595C0M63
	70°	M20	593C7M20		
	70°	M25	593C7M25	594C7M25	
	70°	M32	593C7M32	594C7M32	595C7M32
	70°	M40	593C7M40	594C7M40	595C7M40
	70°	M50		594C7M50	595C7M50
	70°	M63			595C7M63
METAL BOXES WITH METAL SLEEVE (+ EARTHING WIRE)					
	0°	M50			595E0M50
	30°	M50			595E3M50
	30°	M63			595E3M63
	70°	M50			595E7M50
	70°	M63			595E7M63



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ACCESSORIES

(SEE PAGE 238 TO CROSS REFERENCE WITH OLDER PART NUMBERS)

SLEEVES		DB3 Size 3	DB6 Size 4	DB9 Size 5
METAL SLEEVE				
	0°	593M0	594M0	595M0
	30°	593M3	594M3	595M3
	70°	593M7	594M7	595M7

LEGEND FOR OPTIONAL ACCESSORIES



Angle



Threading or gland size



EMC option



HT 240° C



Self-ejection

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HANDLES



DB3
Size 3

DB6
Size 4

DB9
Size 5

POLY HANDLE WITH GLAND



10-30 mm

513P0D30

13-35 mm

514P0D35



10-30 mm

553P0D30

13-35 mm

554P0D35

ELASTOMER HANDLE WITH GLAND



18-25 mm

555P0D25

25-35 mm

555P0D35

35-45 mm

555P0D45

45-49 mm

555P0D49

POLY HANDLE WITH POLY CABLE GLAND



9-18 mm

513P025P

14-25 mm

513P032P

514P032P

515P032P

18-32 mm

513P040P

514P040P

515P040P

24-38 mm

514P050P

515P050P

35-48 mm

515P063P

METAL HANDLE WITH METAL GLAND (+ EARTHING WIRE)



7-13 mm

593P020M

8-16 mm

593P025M

594P025M

16-24 mm

593P032M

594P032M

595P032M

22-32 mm

593P040M

594P040M

595P040M

34-44 mm

594P050M

595P050M

35-48 mm

595P063M

POLY HANDLE WITHOUT CABLE GLAND (METRIC THREAD ENTRY)



M20

513P0M20

M25

513P0M25

M32

513P0M32

514P0M32

M40

513P0M40

514P0M40

M50

514P0M50

515P0M50

M63

515P0M63

M75

METAL HANDLE WITHOUT CABLE GLAND (METRIC THREAD ENTRY)



M20

593P0M20

M25

593P0M25

594P0M25

M32

593P0M32

594P0M32

595P0M32

M40

593P0M40

594P0M40

595P0M40

M50

594P0M50

595P0M50

M63

595P0M63



DIMENSIONS

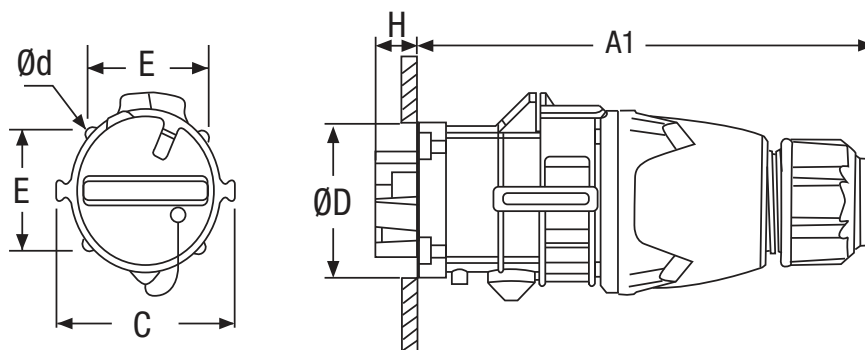


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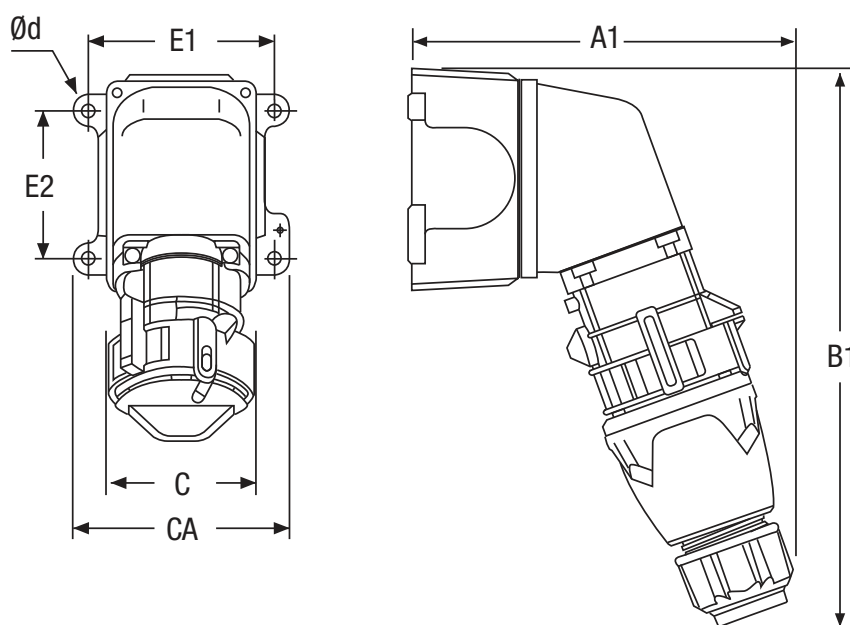
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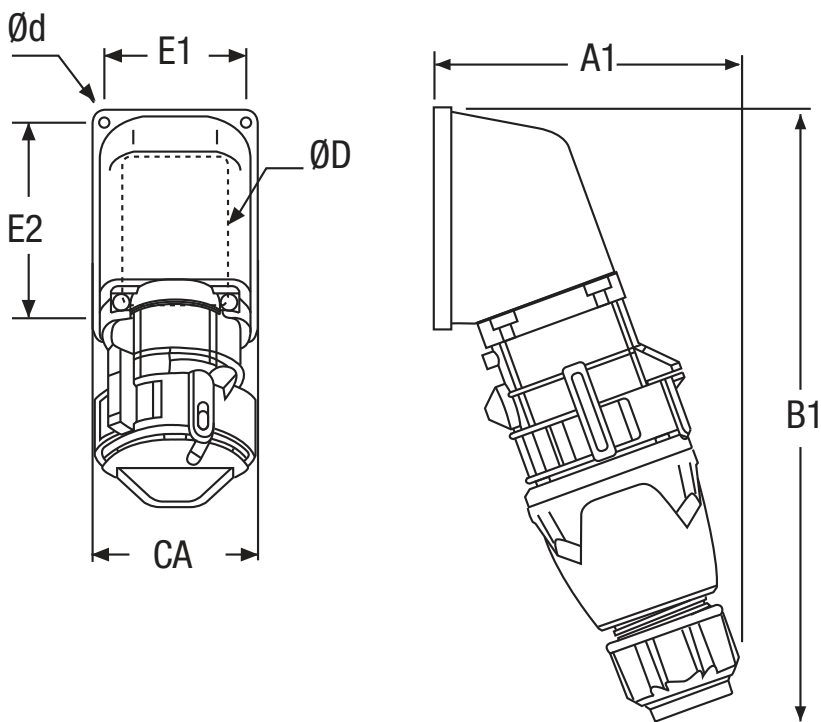


	A1	C	E	H	Ød**	ØD max
DB3	213	110	55	26	4,5	54
DB6	229	123	66	32	5,5	67
DB9	341	146	81	42	5,5	84

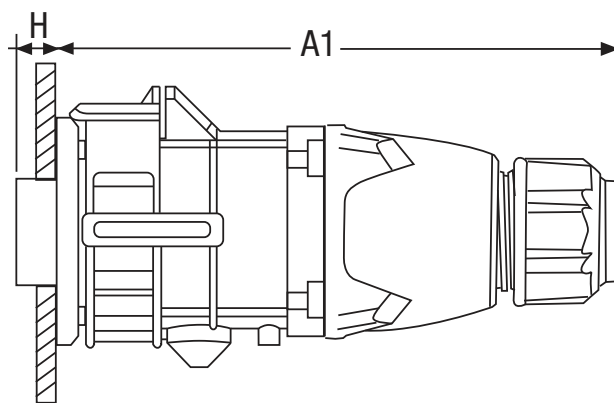
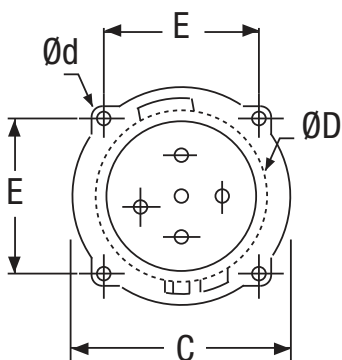


	A1	B1	C	CA	D	E1	E2	H	Ød**
DB3	230	296	84	110	114	94	70	30	6,5
DB6	266	347	114	145	145	125	97	40	8,5
DB9	335	452	140	190	140	170	108	49	9

*Ød : maximum drilling diameter.



	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



	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

*Ød : maximum drilling diameter.