

DS

DECONTACTOR™

The range

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Power supply to production lines



Supply to building sites (shipyards)



Power supply to motors and pumps

And utilities, services
and maintenance,
movies, shows,
aeronautics, aerospace,
etc.

The quality standard for manufacturing industry

The DECONTACTOR™ DS range is our widest range offering rated currents from 30 to 250 A. Polyester from 30 to 90 A and metal-bodied from 90 to 250 A it provides the user with many options – padlocking, auxiliary contacts etc.

This range is used in many diverse applications meeting the quality and performance standards demanded by manufacturing industries' engineers.

Electrical features

- From **30 to 250** Amps - Voltage up to 1000 Volts AC and up to 250 Volts DC
- Integral switching device as defined in clause 2.8 of IEC/EN 60309-1 standard
- Equipped with silver-nickel butt-contacts and metal braid for added reliability and lifetime
- Socket-outlet safety shutter provides **IP4X** protection



The locked safety shutter prevents access to the electrical contacts of the socket-outlet when the plug is removed (IP4X protection against solid foreign objects and access to hazardous parts).

The socket-outlet contacts are kept clean and inaccessible (to 1 mm diameter wires) even when the socket-outlet lid is open.

- Unique keying system allows discrimination between 24 different power supplies (*voltage, frequency, AC and DC current*)
- Number of cycles under normal operation and overload conditions from 2 to 8 times (*depending on rated current*) more than those required by IEC / EN 60309-1 standard
- Versions with auxiliary contacts

Mechanical features

- Automatic IP54/55 watertightness. 150 A and 250 A models available also in IP66/67
- Casings made of glass fibre reinforced **polyester** (30 to 150 A) providing excellent electric insulation, high resistance to corrosive, UV and chemical agent environments and high mechanical resistance (**IKo8** impact resistance)
- Casings made of anti-corrosion treated **metal** (90 to 250 A) providing high temperature resistance and excellent mechanical resistance (**IKo9** impact resistance)
- Ambient temperature: -40 °C to +60 °C (*for temperatures outside this range, please contact us*)
- Spring assisted terminals unaffected by vibration and thermal cycling
- Self-opening lid; self-returning lid on request

Regulatory features

DS decontactors comply with:

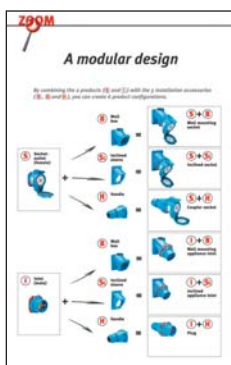
- The **IEC 60309-1** International standard and **EN 60309-1** European standard (*plugs and socket-outlets for industrial purposes*),
- The European Low Voltage Directive (*decree N°95-1081 dated 3rd October 1995*),
- The French decree **N° 88-1056** dated 14th November 1988 relating to workers' protection,
- The decrees relating to workers' protection in Belgium, Spain and Italy,
- The load breaking capacity according to utilisation categories **AC22** and **AC23** of **IEC / EN 60947-3** (*switch standard*).

Also certified by **VERITAS LCIE**, **UL**, **AS** and **CSA** (*French, American, Australian and Canadian inspection laboratories*).





Marechal's modular system



DS decontactors meet the modularity system described on the front cover flap. Before consulting the 'part number' pages, determine the parts required for the needed configuration.



Example : a **wall mounting socket-outlet** includes an active part, the socket-outlet (female) and an installation accessory,

the **wall box**. Each part has its own part number. Therefore, the order should have **two part numbers**.

DS part number system

- **Standard** DS part numbers are made up of 7 characters. All part numbers start with a '3'.
- The choice of an **option** or a **version with auxiliary contacts** results in adding a suffix (of 1 to 3 characters).

1 st character	2 nd character	3 rd character	4 th character	Characters from 5 to 7		
Range	Casing	Rated current	Usage	Supply voltage**	Frequency	Polarity
3 = DS	1 = Blue poly	1 = DS1 (30 A)	4 = Socket-outlet	08A = 20 - 24 V	50 Hz	2P
	4 = Grey poly	3 = DS3 (50 A)	8 = Inlet	033 = 190 - 230 V	50 Hz	3P+E
	5 = Black poly	6 = DS6 (90 A)		015 = 220 - 250 V	50 Hz	1P+N+E
	9 = Blue metal	9 = DS9 (150 A)		013 = 380 - 440 V	50 Hz	3P+E
		2 = DS2 (250 A)		017 = 380 - 440 V	50 Hz	3P+N+E
				193 = 660 - 690 V	50 Hz	3P+E
				197 = 660 - 690 V	50 Hz	3P+N+E
			A = Installation accessory	013 = Handle		
				027 = Inclined sleeve		
				053 = Wall box		

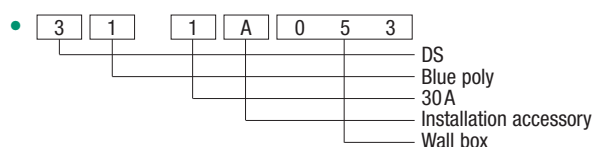
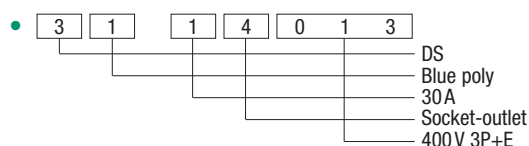
** 24 different power supplies (voltage, frequency) and 12 polarities are available: see international standard and colour-code on page 8

Check that the DS part number meets the need ...

Example : the need is for a 30A, 400 V, 3P+E blue poly wall mounting socket.

- The DS with a 30A rated current is **DS1** (see pages 34 and 35).
- Order a **30 A socket-outlet (S)** and a **wall box (B)**.
- In the standard socket-outlet part numbers table, select the part number for a 400 V, 3P+E socket-outlet: **31 14 013**
- In the standard wall box part number table, choose the accessory that suits you e.g. a 30° blue poly wall box with a M20 threaded entry: **31 1A 053**

You can check the two part numbers found:



The DS core range

In the following table are described the most frequent configurations. Take a look: if the required configuration is there, do not look further in the 'part number' pages. Each configuration includes two part numbers: one for the active part (*socket-outlet or inlet*) and one for the installation accessory (*wall box, inclined sleeve or handle*).

Wall mounting socket



Inclined socket



Coupler socket



Plug



Wall mounting appliance inlet



Inclined appliance inlet



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

DS1 30 A (poly)

Voltage	Polarity	Part Number					
230V	1P+N+E	31 14 015	31 14 015	31 14 015	31 18 015	31 18 015	31 18 015
+ installation accessory:		31 1A 053	31 1A 027	31 1A 013	31 1A 013	31 1A 053	31 1A 027
400V	3P+E	31 14 013	31 14 013	31 14 013	31 18 013	31 18 013	31 18 013
+ installation accessory:		31 1A 053	31 1A 027	31 1A 013	31 1A 013	31 1A 053	31 1A 027
400V *	3P+N+E	31 14 017 *	31 14 017 *	31 14 017 *	31 18 017	31 18 017	31 18 017
+ installation accessory:		31 1A 053	31 1A 027	31 1A 013	31 1A 013	31 1A 053	31 1A 027

Example described at bottom of previous page

DS3 50 A (poly)

Voltage	Polarity	Part Number					
230V	1P+N+E	31 34 015	31 34 015	31 34 015	31 38 015	31 38 015	31 38 015
+ installation accessory:		31 3A 053	31 3A 027	31 3A 013	31 3A 013	31 3A 053	31 3A 027
400V	3P+E	31 34 013	31 34 013	31 34 013	31 38 013	31 38 013	31 38 013
+ installation accessory:		31 3A 053	31 3A 027	31 3A 013	31 3A 013	31 3A 053	31 3A 027
400V *	3P+N+E	31 34 017 *	31 34 017 *	31 34 017 *	31 38 017	31 38 017	31 38 017
+ installation accessory:		31 3A 053	31 3A 027	31 3A 013	31 3A 013	31 3A 053	31 3A 027

DS6 90 A (poly or metal)

Voltage	Polarity	Part Number					
400V	3P+E	• 31 64 013	• 31 64 013	• 31 64 013	• 31 68 013	• 31 68 013	• 31 68 013
+ installation accessory:		• 31 6A 053	• 31 6A 027	31 6A 013	31 6A 013	• 31 6A 053	• 31 6A 027
400V *	3P+N+E	• 31 64 017 *	• 31 64 017 *	• 31 64 017 *	• 31 68 017	• 31 68 017	• 31 68 017
+ installation accessory:		• 31 6A 053	• 31 6A 027	31 6A 013	31 6A 013	• 31 6A 053	• 31 6A 027



Finding the metal version part number is easy!

When a part number is preceded by •, a metal version is also available: To find its part number, just change the 31 into 39 (1 = poly, 9 = metal).

DS9 150 A (poly or metal)

Voltage	Polarity	Part Number					
400V	3P+E	• 31 94 013	• 31 94 013	• 31 94 013	• 31 98 013	• 31 98 013	• 31 98 013
+ installation accessory:		39 9A 053	• 31 9A 027	65 9A 013 D45 (E)	65 9A 013 D45 (E)	39 9A 053	• 31 9A 027
400V *	3P+N+E	• 31 94 017 *	• 31 94 017 *	• 31 94 017 *	• 31 98 017	• 31 98 017	• 31 98 017
+ installation accessory:		39 9A 053	• 31 9A 027	65 9A 013 D45 (E)	65 9A 013 D45 (E)	39 9A 053	• 31 9A 027

(E) = elastomere

DS2 250 A (metal)

Voltage	Polarity	Part Number					
400V	3P+E	39 24 013	39 24 013	39 24 013	39 28 013	39 28 013	39 28 013
+ installation accessory:		39 2A 053	39 2A 027	39 2A 013 (N)	39 2A 013 (N)	39 2A 053	39 2A 027
400V *	3P+N+E	39 24 017 *	39 24 017 *	39 24 017 *	39 28 017	39 28 017	39 28 017
+ installation accessory:		39 2A 053	39 2A 027	39 2A 013 (N)	39 2A 013 (N)	39 2A 053	39 2A 027

* A dual voltage 230/400V socket-outlet with 3P+N+E accepts a 400V plug with 3P+N+E or 3P+E as well as a 230V plug with 1P+N+E (see front cover flap)

(N) = neoprene



Main features:

• (socket-outlet) IP	55	• Wiring (min – max) flexible	2.5 / 6 mm ²
• (socket-outlet + inlet) IP	54	• Wiring (min – max) stranded	2.5 / 10 mm ²
• IK (poly)	08	• Other wiring on request	
• U _{max}	690 V AC - 250 V DC	max flexible / stranded	10 / 16 mm ²

• Rated currents (IEC / EN 60309-1)	30 A / 400V	30 A / 500V	30 A / 690V
• Rated currents and operating voltages (load breaking capacity according to IEC / EN 60947-3)	30 A / 400V (AC23)	30 A / 500V (AC22)	16 A / 690V (AC22)

S Socket-outlet (female)



Voltage	Polarity	Material	Part #
20 - 24 V	2P	Polyester	31 14 08A
190 - 230 V	3P+E	Polyester	31 14 033
220 - 250 V	1P+N+E	Polyester	31 14 015
380 - 440 V	3P+E	Polyester	31 14 013
Dual voltage*	3P+N+E	Polyester	31 14 017

* see front cover flap
Other voltages, polarities: see page 8

Socket-outlet (U_{max} 400V) with auxiliary contacts

With 2 auxiliary contacts (30A) Socket # + **972**

If you want to add an option to this kind of socket-outlet:
call us at +33 (0) 1 45 11 60 00.

Socket-outlet options

IP67 watertightness	Socket # + 600
Device for self-ejecting coupler socket	Socket # + 354
Device for self-ejecting plug	Socket # + 352
Self-returning lid	Socket # + R
180°-opening lid	Socket # + 10
180°-opening and self-returning lid	Socket # + 18
Padlocking shaft up to 3 padlocks 8 mm Ø	Socket # + 844
Stop button	Socket # + 453
Rubber cover for polyester latch	Socket # + 833

If you want to equip a socket with two or more options:
call us at +33 (0) 1 45 11 60 00.

Socket-outlet accessories

Closing mechanism (finger draw plate)	31 1A 346
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I Inlet (male)



Voltage	Polarity	Material	Part #
20 - 24 V	2P	Polyester	31 18 08A
190 - 230 V	3P+E	Polyester	31 18 033
220 - 250 V	1P+N+E	Polyester	31 18 015
380 - 440 V	3P+E	Polyester	31 18 013
380 - 440 V	3P+N+E	Polyester	31 18 017

Inlet (U_{max} 400V) with auxiliary contacts

With 2 auxiliary contacts (30A) Inlet # + **972**

Inlet options

IP67 watertightness	Inlet # + 600
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Inlet accessories

IP67 cap	31 1A 126
Self-closing lid	31 1A 226
Closing mechanism (finger draw plate)	31 1A 346
Ejecting mechanism (shark fin)	31 1A 338
Tension cord	31 1A 336

Main options



Device for self-ejecting coupler socket*



Device for self-ejecting plug*
* See Operating Instruction on page 168



Padlocking shaft
(Padlock not supplied)



Stop button

Accessories



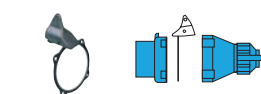
IP67 Inlet cap



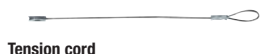
Self-closing lid for inlet



Closing mechanism
(finger draw plates sold per unit)



Ejecting mechanism (shark fin)



Tension cord

Also see:

Full range of boxes page 86
Dimensions page 44
Technical Manual page 150

Installation accessories

B

Box

Entry

	Wall box poly 30°	Wall box poly 70°	Wall box metal + poly sleeve 30°	Wall box metal + metal sleeve 30°	Wall box metal 30°	Wall box metal + straight metal sleeve
M20	31 1A 053	51 BA 058	31 1A 653	39 1A 653	39 1A 053	39 1A 095
M25	31 1A 083	51 BA 058	31 1A 653 418	39 1A 653 418		39 1A 095 418
M32		51 BA 058	31 1A 653 419	39 1A 653 419		39 1A 095 419
M40			31 1A 653 420	39 1A 653 420		39 1A 095 420

The boxes are supplied without any cable gland. The 70° boxes are not drilled (drilled at extra cost).

Si

Sleeve

	Inclined poly 30°	Inclined poly 70°	Inclined metal 30°	Straight metal
	31 1A 027	51 BA 757	39 1A 027	39 1A 127

H

Handle

Cable dia.

5 - 21 mm

Straight poly

31 1A 013

Straight poly with poly cable gland

for ejection option *

Straight metal with metal cable gland

Straight poly flowerpot with metric threaded entry *

Cable dia.

6 - 12 mm	31 1A 753	31 1A 463
13 - 18 mm	31 1A 253 25P	31 1A 443 25P
18 - 25 mm	31 1A 253 32P	31 1A 443 32P
22 - 32 mm	31 1A 253 40P	31 1A 443 40P

* Handle with eyelet for tension cord

Cable dia.

6 - 12 mm	31 1A 963
10 - 18 mm	31 1A 953 25M

Entry

M20	31 1A 253 417
M25	31 1A 253 418
M32	31 1A 253 419
M40	31 1A 253 420

* Cable gland on request.

Handle for flat or steel armoured cables on request.

A

Industrial – Domestic adapters



Domestic socket-outlet 10/16A 230V + Marechal industrial inlet 1P+N+E, 10 A 230 V fuse protection

Type	Material	Part number
UK	Poly	31 18 015 D40 *
FR with safety shutter	Poly	31 18 015 D16

* All these domestic socket-outlets are available to foreign standards : replace D40 by D11 for France, D30 for Germany, D06 for Italy, D08 for Switzerland, D67 for Australia, D80 for USA etc



Wall boxes and 70° sleeves

These wall boxes are designed for:

- easy wiring, recommended for large conductor cross-sections (up to 5 x 35 mm²)
- entries and exits either at top, bottom or sides
- stock reduction, as the same wall box is common to several products

The sleeves are angled (70°) to reduce the socket-outlet protrusion and impact risk (for lifts ...).

See full range of boxes on page 86



Main features:

• (socket-outlet) IP	55	• Wiring (min – max) flexible	4 / 10 mm ²
• (socket-outlet + inlet) IP	54	• Wiring (min – max) stranded	4 / 16 mm ²
• IK (poly)	08	• Other wiring on request	
• U _{max}	1000 V AC - 250 V DC	max flexible	16 mm ²
• Rated currents (IEC / EN 60309-1)	50 A / 400V	50 A / 690V	30 A / 1000V
• Rated currents and operating voltages	50 A / 400V	32 A / 690V	-
(load breaking capacity according to IEC / EN 60947-3)	(AC23)	(AC22)	(-)

S Socket-outlet (female)



Voltage	Polarity	Material	Part #
20 - 24 V	2P	Polyester	31 34 08A
190 - 230 V	3P+E	Polyester	31 34 033
220 - 250 V	1P+N+E	Polyester	31 34 015
380 - 440 V	3P+E	Polyester	31 34 013
Dual voltage*	3P+N+E	Polyester	31 34 017

* See front cover flap
Other voltages, polarities: see page 8

Socket-outlet (U_{max} 400V) with auxiliary contacts

With 2 auxiliary contacts (16A)	Socket # + 972
With 4 auxiliary contacts (16A)	Socket # + 264

If you want to add an option to this kind of socket-outlet:
call us at +33 (0) 1 45 11 60 00.

Socket-outlet options

IP67 watertightness	Socket # + 600
Device for self-ejecting coupler socket	Socket # + 354
Device for self-ejecting plug	Socket # + 352
Self-returning lid	Socket # + R
180°-opening lid	Socket # + 10
180°-opening and self-returning lid	Socket # + 18
Padlocking shaft up to 3 padlocks 8 mm Ø	Socket # + 844
Stop button	Socket # + 453
Rubber cover for polyester latch	Socket # + 833

If you want to equip a socket-outlet with two or more options:
call us at +33 (0) 1 45 11 60 00.

I Inlet (male)



Voltage	Polarity	Material	Part #
20 - 24 V	2P	Polyester	31 38 08A
190 - 230 V	3P+E	Polyester	31 38 033
220 - 250 V	1P+N+E	Polyester	31 38 015
380 - 440 V	3P+E	Polyester	31 38 013
380 - 440 V	3P+N+E	Polyester	31 38 017

Inlet (U_{max} 400V) with auxiliary contacts

With 2 auxiliary contacts (16A)	Inlet # + 972
With 4 auxiliary contacts (16A)	Inlet # + 264

Inlet options

IP67 watertightness	Inlet # + 600
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Inlet accessories

IP67 cap	31 3A 126
Self-closing lid	31 3A 226
Ejecting mechanism (shark fin)	31 3A 338
Tension cord	31 1A 336

Main options



Device for self-ejecting coupler socket*



Device for self-ejecting plug*
* See Operating Instruction on page 168



Padlocking shaft
(Padlock not supplied)



Stop button

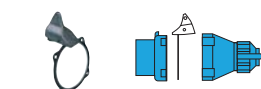
Accessories



IP67 Inlet cap



Self-closing lid for inlet



Ejecting mechanism (shark fin)



Tension cord

Also see:

Full range of boxes page 86
Dimensions page 44
Technical Manual page 150

Installation accessories

B

Box



Wall box
poly 30°



Wall box
poly 70°



Wall box metal +
poly sleeve 30°



Wall box metal +
metal sleeve 30°



Wall box
metal 30°



Wall box metal +
metal sleeve 70°



Wall box metal +
straight metal sleeve

Entry

Entry	Wall box poly 30°	Wall box poly 70°	Wall box metal + poly sleeve 30°	Wall box metal + metal sleeve 30°	Wall box metal 30°	Wall box metal + metal sleeve 70°	Wall box metal + straight metal sleeve
M20		51 CA 058	31 3A 653 417	39 3A 653 417		87 3A 053 417	39 3A 095 417
M25	31 3A 053	51 CA 058	31 3A 653	39 3A 653	39 3A 053	87 3A 053	39 3A 095
M32		51 CA 058	31 3A 653 419	39 3A 653 419		87 3A 053 419	39 3A 095 419
M40		51 CA 058	31 3A 653 420	39 3A 653 420		87 3A 053 420	39 3A 095 420

The boxes are supplied without any cable gland. The 70° boxes are not drilled (drilled at extra cost).

Sl

Sleeve



Inclined
poly 30°



Inclined
poly 70°



Inclined
metal 30°



Inclined
metal 70°



Straight
metal

31 3A 027	51 CA 757	39 3A 027	87 3A 087	39 3A 127
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ZOOM



Handle with built-in finger draw plate

This straight handle is recommended for in-line connections.

H

Handle



Straight
poly



Straight poly with
poly cable gland



for
ejection option *



Straight metal with
metal cable gland



Straight poly flowerpot
with metric threaded entry *

Cable dia.

10 - 30 mm	31 3A 013
10 - 30 mm	31 3A 473 *

* With built-in finger draw plate
(for in-line connections)

Handle for flat or steel armoured
cables on request.

Cable dia.

6 - 12 mm	31 3A 253 20P	31 3A 443 20P
13 - 18 mm	31 3A 753	31 3A 463
18 - 25 mm	31 3A 253 32P	31 3A 443 32P
22 - 32 mm	31 3A 253 40P	31 3A 443 40P

* Handle with eyelet for tension cord

Cable dia.

6 - 12 mm	31 3A 953 20M
10 - 18 mm	31 3A 963
16 - 24 mm	31 3A 953 32M
22 - 32 mm	31 3A 953 40M

Entry

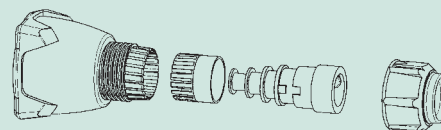
M20	31 3A 253 417
M25	31 3A 253 418
M32	31 3A 253 419
M40	31 3A 253 420

* Cable gland on request.



Perfect cable fit and broad tightening range

A special anchoring system provides a perfect cable fit and a broad tightening range (multi-layer bush to choose best cable fit).





Main features:

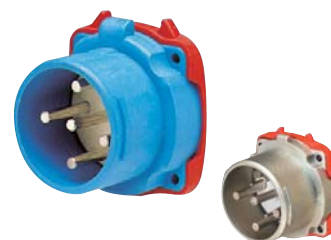
• (socket-outlet) IP	55	• Wiring (min – max) flexible	10 / 25 mm ²
• (socket-outlet + inlet) IP	54	• Wiring (min – max) stranded	16 / 35 mm ²
• IK (poly / metal)	08/09	• Other wiring on request	
• U _{max}	1000 V AC - 250 V DC	max flexible / stranded	35 / 50 mm ²
• Rated currents (IEC / EN 60309-1)	90 A / 400V	90 A / 690V	63 A / 1000V
• Rated currents and operating voltages (load breaking capacity according to IEC / EN 60947-3)	90 A / 400V (AC23)	63 A / 690V (AC22)	- (-)



Socket-outlet (female)



Inlet (male)



Main options



Device for self-ejecting coupler socket*



Device for self-ejecting plug*
* See Operating Instruction on page 168



Padlocking shaft
(Padlock not supplied)



Stop button

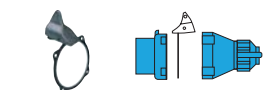
Accessories



IP67 Inlet cap



Self-closing lid for inlet



Ejecting mechanism (shark fin)



Tension cord

Voltage	Polarity	Material	Part #
190 - 230V	3P+E	Polyester	31 64 033
		Metal	39 64 033
220 - 250V	1P+N+E	Polyester	31 64 015
		Metal	39 64 015
380 - 440V	3P+E	Polyester	31 64 013
		Metal	39 64 013
Dual voltage*	3P+N+E	Polyester	31 64 017
		Metal	39 64 017
660 - 690V	3P+E	Polyester	31 64 193
		Metal	39 64 193
660 - 690V	3P+N+E	Polyester	31 64 197
		Metal	39 64 197

* See front cover flap

Other voltages, polarities: see page 8

Socket-outlet with auxiliary contacts

With 2 auxiliary contacts (5A)	Socket # + 972
With 3 auxiliary contacts (5A)	Socket # + 263

If you want to add an option to this kind of socket-outlet:
call us at +33 (0) 1 45 11 60 00.

Socket-outlet options

IP67 watertightness	Socket # + 600
Device for self-ejecting coupler socket	Socket # + 354
Device for self-ejecting plug	Socket # + 352
Self-returning lid	Socket # + R
180°-opening lid	Socket # + 10
180°-opening and self-returning lid	Socket # + 18
Padlocking shaft up to 3 padlocks 8mm Ø	Socket # + 844
Stop button	Socket # + 453
Rubber cover for polyester latch	Socket # + 833
Rubber cover for metal latch	Socket # + 835

If you want to equip a socket-outlet with two or more options:
call us at +33 (0) 1 45 11 60 00.

Voltage	Polarity	Material	Part #
190 - 230V	3P+E	Polyester	31 68 033
		Metal	39 68 033
220 - 250V	1P+N+E	Polyester	31 68 015
		Metal	39 68 015
380 - 440V	3P+E	Polyester	31 68 013
		Metal	39 68 013
380 - 440V	3P+N+E	Polyester	31 68 017
		Metal	39 68 017
660 - 690V	3P+E	Polyester	31 68 193
		Metal	39 68 193
660 - 690V	3P+N+E	Polyester	31 68 197
		Metal	39 68 197

Inlet with auxiliary contacts

With 2 auxiliary contacts (5A)	Inlet # + 972
With 3 auxiliary contacts (5A)	Inlet # + 263

Inlet options

IP67 watertightness	Inlet # + 600
---------------------	---------------

Inlet accessories

IP67 cap	31 6A 126
Self-closing lid	31 6A 226
Ejecting mechanism (shark fin)	31 6A 338
Tension cord	31 1A 336

Also see:

Full range of boxes page 86
Dimensions page 44
Technical Manual page 150

Installation accessories

B Box

							
	Wall box poly 30°	Wall box poly 70°	Wall box metal 30°	Wall box metal + poly sleeve 30°	Wall box metal + metal sleeve 30°	Wall box metal + metal sleeve 70°	Wall box metal + straight metal sleeve
Entry							
M25		51 DA 058		31 6A 653 418	39 6A 653 418	87 6A 053 418	39 6A 095 418
M32		51 DA 058		31 6A 653 419	39 6A 653 419	87 6A 053 419	39 6A 095 419
M40	31 6A 053	51 DA 058	39 6A 053	31 6A 653	39 6A 653	87 6A 053	39 6A 095
M50				31 6A 653 429	39 6A 653 429	87 6A 053 429	39 6A 095 429

The boxes are supplied without any cable gland. The 70° boxes are not drilled (drilled at extra cost).

Sl Sleeve

					
	Inclined poly 30°	Inclined poly 70°	Inclined metal 30°	Inclined metal 70°	Straight metal
	31 6A 027	51 DA 757	39 6A 027	87 6A 087	39 6A 127

ZOOM



Handle with built-in finger draw plate

This straight handle is recommended for in-line connections.

H Handle

					
	Straight poly	Straight poly with poly cable gland	for ejection option *	Straight metal with metal cable gland	Straight poly flowerpot with metric threaded entry *
Cable dia.		Cable dia.		Cable dia.	Entry
13 - 35 mm	31 6A 013	13 - 18 mm 31 6A 253 25P	31 6A 443 25P	10 - 18 mm 31 6A 953 25M	M25 31 6A 253 418
13 - 35 mm	31 6A 473 *	18 - 25 mm 31 6A 253 32P	31 6A 443 32P	16 - 24 mm 31 6A 953 32M	M32 31 6A 253 419
		22 - 32 mm 31 6A 753	31 6A 463	22 - 32 mm 31 6A 963	M40 31 6A 253 420
		30 - 38 mm 31 6A 253 50P	31 6A 443 50P	34 - 44 mm 31 6A 953 50M	M50 31 6A 253 429

* With built-in finger draw plate (for in-line connections)

Handle for flat or steel armoured cables on request.

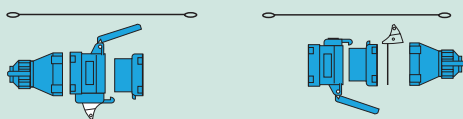
* Handle with eyelet for tension cord

* Cable gland on request.



Self-ejection

Both DS sockets and plugs can be modified for self-ejection purposes e.g. for use on vehicles, movable vessels, trailers etc.



See page 168 for guidance notes or contact us with your application for assistance.



Protection against mechanical shock

The poly and metal versions do not offer the same level of protection against mechanical shock (IK). According to standard IEC / EN 50102, the poly version is IKo8, whereas the metal version achieves IKo9 (impact energy absorption up to 10 Joules).

For more informations, see Technical Manual on page 164



Main features:

• (socket-outlet) IP	55	• Wiring (min – max) flexible	16 / 50 mm ²
• (socket-outlet + inlet) IP	54	• Wiring (min – max) stranded	25 / 70 mm ²
• IK (poly / metal)	08/09	• Other wiring on request	
• U _{max}	1000 V AC - 250 V DC	max flexible / stranded	70 / 95 mm ²
• Rated currents (IEC / EN 60309-1)	150 A / 400V	125 A / 690V	90 A / 1000V
• Rated currents and operating voltages	150 A / 400V	90 A / 690V	-
(load breaking capacity according to IEC / EN 60947-3)	(AC22)	(AC22)	(-)

S Socket-outlet (female)



New version equipped with easy closing mechanism (see zoom)

I Inlet (male)



Metal version

Main options



Device for self-ejecting coupler socket*



Device for self-ejecting plug*
* See Operating Instruction on page 168



Padlocking shaft
(Padlock not supplied)



Stop button

Accessories



IP67 Inlet cap



Self-closing lid for inlet



Ejecting mechanism (plug release cam)



Tension cord

Voltage	Polarity	Material	Part #
190 - 230 V	3P+E	Polyester	31 94 033
		Metal	39 94 033
220 - 250 V	1P+N+E	Polyester	31 94 015
		Metal	39 94 015
380 - 440 V	3P+E	Polyester	31 94 013
		Metal	39 94 013
Dual voltage*	3P+N+E	Polyester	31 94 017
		Metal	39 94 017
660 - 690 V	3P+E	Polyester	31 94 193
		Metal	39 94 193
660 - 690 V	3P+N+E	Polyester	31 94 197
		Metal	39 94 197

* See front cover flap

Other voltages, polarities: see page 8

Socket-outlet with auxiliary contacts

With 2 auxiliary contacts (5A) Socket # + 972

If you want to add an option to this kind of socket-outlet:
call us at +33 (0) 1 45 11 60 00.

Socket-outlet options

IP66 / 67 watertightness	Socket # + 600
Device for self-ejecting coupler socket	Socket # + 365
Device for self-ejecting plug	Socket # + 353
Self-returning lid	Socket # + R
180° opening lid	Socket # + 10
180° opening and self-returning lid	Socket # + 18
Padlocking shaft up to 3 padlocks 8 mm Ø	Socket # + 844
Stop button	Socket # + 453
Rubber cover for polyester latch	Socket # + 833
Rubber cover for metal latch	Socket # + 835

If you want to equip a socket-outlet with two or more options:
call us at +33 (0) 1 45 11 60 00.

Voltage	Polarity	Material	Part #
190 - 230 V	3P+E	Polyester	31 98 033
		Metal	39 98 033
220 - 250 V	1P+N+E	Polyester	31 98 015
		Metal	39 98 015
380 - 440 V	3P+E	Polyester	31 98 013
		Metal	39 98 013
380 - 440 V	3P+N+E	Polyester	31 98 017
		Metal	39 98 017
660 - 690 V	3P+E	Polyester	31 98 193
		Metal	39 98 193
660 - 690 V	3P+N+E	Polyester	31 98 197
		Metal	39 98 197

Inlet with auxiliary contacts

With 2 auxiliary contacts (5A) Inlet # + 972

Inlet options

IP66 / 67 watertightness	Inlet # + 600
Device for self-ejecting coupler socket	Inlet # + 204
Device for self-ejecting plug	Inlet # + 204

Inlet accessories

IP67 cap	31 9A 126
Self-closing lid	31 9A 226
Ejecting mechanism (plug release cam)	39 9A 397
Tension cord	31 1A 336

Also see:

Dimensions page 44
Technical Manual page 150

Installation accessories

B

Box



Wall box metal +
metal sleeve 20°



Wall box metal +
metal sleeve 70°



Wall box metal +
poly sleeve 30°



Wall box metal +
metal sleeve 30°



Wall box metal +
straight metal sleeve

Entry

M32	39 9A 053 419	87 9A 053 419	31 9A 653 419	39 9A 653 419	39 9A 095 419
M40	39 9A 053 420	87 9A 053 420	31 9A 653 420	39 9A 653 420	39 9A 095 420
M50	39 9A 053	87 9A 053	31 9A 653	39 9A 653	39 9A 095
M63	39 9A 053 463	87 9A 053 463	31 9A 653 463	39 9A 653 463	39 9A 095 463

The boxes are supplied without any cable gland.

Sl

Sleeve



Inclined
poly 30°



Inclined
metal 70°



Inclined
metal 30°



Straight
metal

31 9A 027	87 9A 087	39 9A 027	39 9A 127
------------------	------------------	------------------	------------------

H

Handle



Straight
elastomere



Straight poly with
metal cable gland



Straight poly with
poly cable gland



Straight metal with
metal cable gland



Straight poly flowerpot
with metric threaded entry *

Cable dia.

18 - 25 mm	65 9A 013D25
25 - 35 mm	65 9A 013D35
34 - 49 mm	61 9A 253 63M
35 - 45 mm	65 9A 013D45

Cable dia.

34 - 44 mm	61 9A 253 63P
------------	----------------------

Cable dia.

16 - 24 mm	31 9A 953 32M
22 - 32 mm	31 9A 953 40M
34 - 44 mm	31 9A 963
34 - 49 mm	31 9A 953 63M

Entry

M63	61 9A 253 463
-----	----------------------

* Cable gland on request.

Handle for flat or steel armoured cables on request.

ZOOM

New: easy closing mechanism

A new and simplified closing mechanism is now implemented on the DS9 and DS2 plugs and socket-outlets as standard equipment. This compact mechanism is a significant improvement compared to the previous optional closing lever. After the plug is connected, mechanism must be freed in order to let the plug travel back to parked position when the DECONTACTOR button is pressed.



DS9 inclined
socket-outlet before
inserting the plug



The plug is half introduced,
the clamps are placed, ready
to pull the plug into the
socket-outlet.



The closing handles are
closed, the plug is inserted
into the socket-outlet.

The mechanism is freed,
allowing normal operation
of the DECONTACTOR.





Main features:

• (socket-outlet) IP	55	• Wiring (min – max) flexible	70 / 95 mm ²
• (socket-outlet + inlet) IP	54	• Wiring (min – max) stranded	70 / 120 mm ²
• IK (metal)	09	• Other wiring on request	
• U _{max}	1000 V AC - 250 V DC	max flexible / stranded	150 / 185 mm ²
• Rated currents (IEC / EN 60309-1)	250 A / 400 V	200 A / 690 V	150 A / 1000 V
• Rated currents and operating voltages	250 A / 400 V	125 A / 690 V	-
(load breaking capacity according to IEC / EN 60947-3)	(AC22)	(AC22)	(-)

S Socket-outlet (female)



New version equipped with easy closing mechanism (see zoom on page 41)

I Inlet (male)



Main options



Device for self-ejecting coupler socket*



Device for self-ejecting plug*
* See Operating Instruction on page 168



Padlocking shaft
(Padlock not supplied)



Stop button

Accessories



IP67 Inlet cap



Ejecting mechanism (plug release cam)



Tension cord

Voltage	Polarity	Material	Part #
190 - 230 V	3P+E	Metal	39 24 033
220 - 250 V	1P+N+E	Metal	39 24 015
380 - 440 V	3P+E	Metal	39 24 013
Dual voltage*	3P+N+E	Metal	39 24 017
660 - 690 V	3P+E	Metal	39 24 193
660 - 690 V	3P+N+E	Metal	39 24 197

* See front cover flap

Other voltages, polarities: see page 8

Socket-outlet with auxiliary contacts

With 2 auxiliary contacts (5 A) Socket # + 972

If you want to add an option to this kind of socket-outlet: call us at +33 (0) 1 45 11 60 00.

Socket-outlet options

IP66 / 67 watertightness	Socket # + 600
Device for self-ejecting coupler socket	Socket # + 365
Device for self-ejecting plug	Socket # + 353
Self-returning lid	Socket # + R
180° opening lid	Socket # + 10
180° opening and self-returning lid	Socket # + 18
Padlocking shaft up to 3 padlocks 8 mm Ø	Socket # + 844
Stop button	Socket # + 453
Rubber cover for metal latch	Socket # + 835

If you want to equip a socket-outlet with two or more options: call us at +33 (0) 1 45 11 60 00.

Voltage	Polarity	Material	Part #
190 - 230 V	3P+E	Metal	39 28 033
220 - 250 V	1P+N+E	Metal	39 28 015
380 - 440 V	3P+E	Metal	39 28 013
380 - 440 V	3P+N+E	Metal	39 28 017
660 - 690 V	3P+E	Metal	39 28 193
660 - 690 V	3P+N+E	Metal	39 28 197

Inlet with auxiliary contacts

With 2 auxiliary contacts (5 A) Inlet # + 972

Inlet options

IP66 / 67 watertightness	Inlet # + 600
Device for self-ejecting coupler socket	Inlet # + 204
Device for self-ejecting plug	Inlet # + 204

Inlet accessories

IP67 cap	31 2A 126
Ejecting mechanism (plug release cam)	39 2A 397
Tension cord	31 1A 336

Also see:

Dimensions page 44
Technical Manual page 150

Installation accessories

B	Box		Wall box metal + metal sleeve 60°
	Entry		
	M63	39 2A 053	

The boxes are supplied without any cable gland.

	Sleeve		Inclined metal 60°
		39 2A 027	

H	Handle				
		Straight neoprene	Straight metal	Straight poly with poly cable gland	Straight poly flowerpot with metric threaded entry *
	Cable dia.			Cable dia.	Entry
	34 - 58 mm	39 2A 013		34 - 44 mm	39 2A 753
	40 - 54 mm		39 2A 913		M63 39 2A 253 463
					* Cable gland on request.

Handle for flat or steel armoured cables on request.



Inclined appliance inlet 60°



Coupler socket

DS2: load breaking capacity up to 250 A!

DS2 is the top of the DECONTACTOR™ range in terms of power: indeed, it can break up to 250 A - 400 V.

Its robust design makes it ideal for heavy-duty industrial applications:

- power supply to medium pumps and motors in places near heat sources: industrial machines and equipment,
- power supply to excavating machines: mines and quarries,
- steel, metallurgy, boiler construction,
- power supply to rocket launch pads, power supply to aircraft on the ground and to aircraft maintenance hangars: aeronautics, aerospace.

Note: Of the same dimensions as the DS2, a **400 A** DS4 is available. Electrical interlocking, however, is essential via a switch or contactor operated via the pilot contacts in the DS4.

Wall mounting socket 60°



Plug

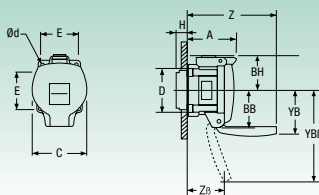
DS range dimensions

Socket-outlet

+ plug

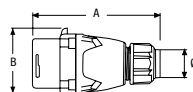
Socket-outlet

YB8: 180° OPENING LID



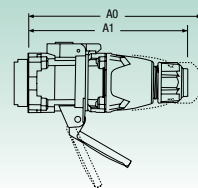
	A	B	BH	C	D	E	H	YB	YB8	Z	ZB	Ød
DS1/DS24C	65	50	45	69	58	48	15	65	108	121	76	5
DS3/DS37C	69	55	54	80	70	55	21	100	132	121	57	5
DS6/DS7C3	76	63	60	98	80	66	27	110	152	146	87	5.5
DS9	113	75	70	113	100	81	24	137		197		6
DS2/DS7C9	110	75	92	131	118	98	38	115		213		6.5

Plug



	A	B	Ø
DS1/DS24C	144	70	5-21
DS3/DS37C	148	82	10-30
DS6/DS7C3	175	98	13-36
DS9	195	125	25-45
DS2/DS7C9	260	141	40-58

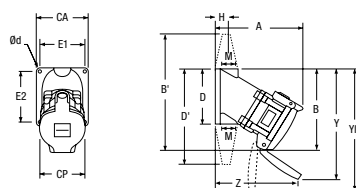
Plug connected (A1)/ disconnected (Ao) in a socket-outlet



	A1	Ao
DS1/DS24C	166	182
DS3/DS37C	174	190
DS6/DS7C3	197	221
DS9	246	275
DS2/DS7C9	310	341

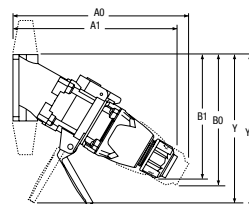
30° wall mounting socket

YB: 180° OPENING LID



	A	B	B'	CA	CP	D	E1	E2	H	Y	YB	Z	Ød
DS1/DS24C	135	128		84	69	84	70	70	18	175	189	128	6
DS3/DS37C	154	151		89	80	100	77	88	24	216	216	129	6.5
DS6/DS7C3 POLY	192	185		105	98	128	89	112	31	262	269	168	7.5
DS6/DS7C3 METAL	173	151		80	98	130	105	105	28	220	239	181	7
DS9	250	188	285	138	113	285	163	116	50	279		258	7
DS2/DS7C9 (60°)	314	256	315	180	131	315	202	154	50	379		187	10

Plug connected (A1)/ disconnected (Ao) in a 30° wall mounting socket

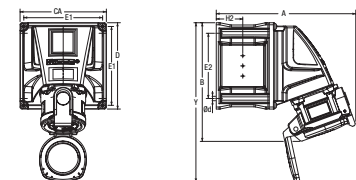


YB: 180° OPENING LID

	A1	Ao	B1	B0	Y	YB
DS1/DS24C	211	225	161	169	175	189
DS3/DS37C	232	246	184	192	216	216
DS6/DS7C3 POLY	283	304	220	232	262	269
DS6/DS7C3 METAL	268	289	193	205	220	239
DS9	355	380	243	258	279	
DS2/DS7C9 (60°)	383	399	433	460	379	

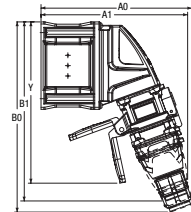
70° wall mounting socket

YB: 180° OPENING LID



	A	B	CA	D	E1	E2	H2	Y	Ød
DS1/DS24C	205	175	127	127	116	96	39	234	6.5
DS3/DS37C	231	219	170	170	158	139	39	289	6.5
DS6/DS7C3 POLY	238	237	170	170	158	159	39	316	6.5

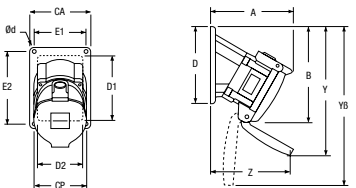
Plug connected (A1)/ disconnected (Ao) in a 70° wall mounting socket



	A1	Ao	B1	B0	Y
DS1/DS24C	213	219	260	276	234
DS3/DS37C	245	253	313	335	289
DS6/DS7C3 POLY	251	260	338	362	316

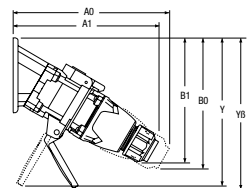
30° inclined socket

YB: 180° OPENING LID



	A	B	CA	CP	D	D1	D2	E1	E2	Y	YB	Z	Ød
DS1/DS24C	116	137	76	69	107	65	62	63	95	184	198	109	5.5
DS3/DS37C	125	145	76	80	107	65	68	63	95	210	210	109	5.5
DS6/DS7C3	138	177	102	98	136	111	90	87	122	254	261	114	6.5
DS9	200	198	140	113	142	110	100	124	124	299		169	7
DS2/DS7C9 (60°)	223	249	183	131	183	150	150	165	165	380		96	7

Plug connected (A1)/ disconnected (Ao) in a 30° inclined socket

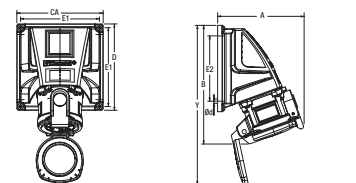


YB: 180° OPENING LID

	A1	Ao	B1	B0	Y	YB
DS1/DS24C	192	206	170	178	184	198
DS3/DS37C	203	217	178	186	210	210
DS6/DS7C3	229	250	212	224	254	261
DS9	302	327	242	257	299	
DS2/DS7C9 (60°)	292	308	347	374	293	

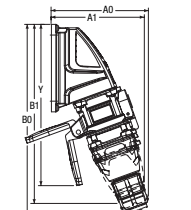
70° inclined socket

YB: 180° OPENING LID



	A	B	Ca	D	E1	Y	Ød
DS1/DS24C	127	175	127	127	116	234	4.5
DS3/DS37C	153	219	170	170	159	289	4.5
DS6/DS7C3 POLY	160	237	170	170	159	316	4.5

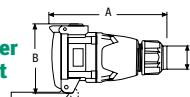
Plug connected (A1)/ disconnected (Ao) in a 70° inclined socket



	A1	Ao	B1	B0	Y
DS1/DS24C	135	141	260	276	234
DS3/DS37C	167	175	313	335	289
DS6/DS7C3 POLY	173	182	338	362	316

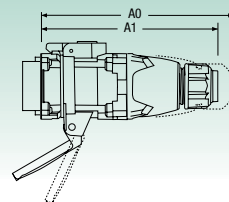
Coupler socket + inlet

Coupler socket



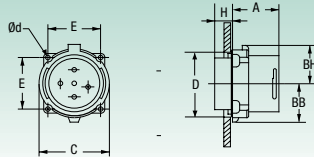
	A	B	Ø
DS1/DS24C	160	95	5-21
DS3/DS37C	165	108	10-30
DS6/DS7C3	179	123	13-36
DS9	227	145	25-45
DS2/DS7C9	291	167	40-58

Coupler socket connected (A1)/disconnected (Ao) in an inlet



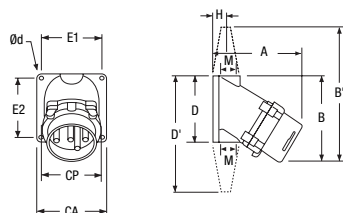
	A1	A0
DS1/DS24C	166	182
DS3/DS37C	174	190
DS6/DS7C3	197	221
DS9	246	275
DS2/DS7C9	310	341

Inlet



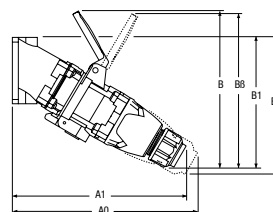
	A	BB	BH	C	D	E	H	Ød
DS1/DS24C	48	33	37	67	58	48	14	5
DS3/DS37C	52	38	45	78	70	55	18	5
DS6/DS7C3	56	45	53	92	80	66	27	5.5
DS9	71	61	64	113	100	81	26	6
DS2/DS7C9	79	73	68	130	118	98	40	6.5

30° wall mounting appliance inlet



	A	B	B'	CA	CP	D	E1	E2	H	Ød
DS1/DS24C	111	105	84	67	84	70	70	18	6	
DS3/DS37C	129	126	89	66	100	77	88	24	6.5	
DS6/DS7C3 POLY	170	158	105	92	128	89	112	31	7.5	
DS6/DS7C3 METAL	150	121	127	92	130	105	105	28	7	
DS9	203	153	320	183	113	285	163	116	50	7
DS2/DS7C9 (60°)	267	233	400	226	130	315	202	154	50	10

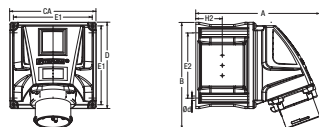
Coupler socket connected (A1)/disconnected (Ao) in a 30° wall mounting appliance inlet



BB: 180° OPENING LID

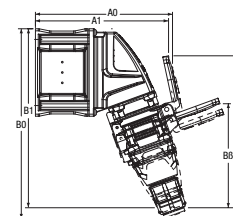
	A1	A0	B	B1	B0	Bβ
DS1/DS24C	211	225	184	161	169	199
DS3/DS37C	232	246	215	184	192	215
DS6/DS7C3 POLY	283	304	248	220	232	254
DS6/DS7C3 METAL	268	289	248	193	205	
DS9	355	380	311	243	258	
DS2/DS7C9 (60°)	383	399	427	433	460	

70° wall mounting appliance inlet



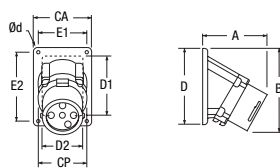
	A	B	Ca	D	E	E1	E2	H2	Ød
DS1/DS24C	182	157	127	127	116	96	39	6.5	
DS3/DS37C	208	201	170	158	159	139	39	6.5	
DS6/DS7C3 POLY	212	212	170	170	158	159	39	6.5	

Coupler socket connected (A1)/disconnected (Ao) in a 70° wall mounting appliance inlet



	A1	A0	B	B1	B0	Bβ
DS1/DS24C	193	199	221	260	276	151
DS3/DS37C	225	217	249	313	334	180
DS6/DS7C3 POLY	245	261	282	338	362	210

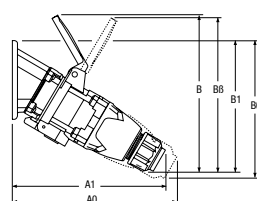
30° inclined appliance inlet



D1: drilling Ø

	A	B	CA	CP	D	D1	D2	E1	E2	Ød
DS1/DS24C	92	114	76	67	107	65	62	63	95	5.5
DS3/DS37C	100	120	76	66	107	65	68	63	95	5.5
DS6/DS7C3	109	146	102	92	136	111	90	87	122	6.5
DS9	153	159	140	113	142	110	100	124	124	7
DS2/DS7C9 (60°)	176	226	183	130	183	150	150	165	165	7

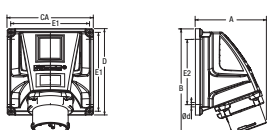
Coupler socket connected (A1)/disconnected (Ao) in a 30° inclined appliance inlet



BB: 180° OPENING LID

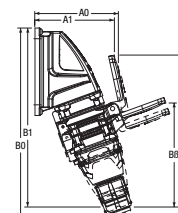
	A1	A0	B	B1	B0	Bβ
DS1/DS24C	192	206	184	170	178	199
DS3/DS37C	203	217	215	178	186	215
DS6/DS7C3	229	250	248	212	224	254
DS9	302	327	311	242	257	
DS2/DS7C9 (60°)	292	308	427	347	374	

70° inclined appliance inlet



	A	B	CA	D	E1	Ød
DS1/DS24C	104	157	127	127	116	4.5
DS3/DS37C	130	201	170	170	159	4.5
DS6/DS7C3	134	212	170	170	159	4.5

Coupler socket connected (A1)/disconnected (Ao) in a 70° inclined appliance inlet



	A1	A0	B	B1	B0	Bβ
DS1/DS24C	115	121	221	260	276	151
DS3/DS37C	139	147	249	313	334	180
DS6/DS7C3	167	183	282	338	362	210