

DS DECONTACTOR is a compact and waterproof plug and socket-outlet with integral switch for industrial purposes.

DS DECONTACTOR complies with the following regulations and standards(a) :

European Directives Low Voltage and RoHS (affixing of CE marking), REACH European Regulation, standards IEC/EN 60309-1, IEC/EN 60309-4, IEC/EN 60947-3 (dealing with the load breaking capacities AC-22 and AC-23), UL 1682, UL 2682 (USA), CSA C22.2 N° 182.1-07 (Canada), GB/T 11918.1 (China).

DS DECONTACTOR is certified by the following certification bodies:

LCIE (France), UL (USA), SAA (Australia), VDE (Germany), TR CU (Russia), CSA (Canada), CQC (China), Bureau Veritas Marine (DS9 only).



The use of DS DECONTACTOR facilitates the compliance with:

- electrical machinery to the "Machinery" European Directive on isolating device, and to standard EN 60204-1 : Safety of machinery-electrical equipment of machines

- electrical installation:

* to national regulations relating to the improvement of the safety and health of workers at work in France, Italy, Spain, Belgium,

* to installation standards : IEC 60364 (international), HD 60364 (European), NFPA 70 (USA) and NF C 15-100 (French) or other national transposition of IEC/HD 60364.

General information

	DS6	DS9
(b) I_n	90 A	150 A
U_{max} (V AC/V DC)	1 000/1 500	1 000/1 500
(c) Frequency (Hz)	≤ 500	≤ 500
(d) Number of contacts	4P+E	4P+E
(e) Number of keying positions	24	24
Connection (min - max): mm ²		
Flexible conductors (Cu): main contacts	10 - 25	25 - 70
Rigid/stranded conductors (Cu): main contacts	10 - 35	25 - 95
Tightening torque - main contacts	4 Nm	9 Nm
Wiring lugs	Option	Option
Icc: conditional short circuit current (kA)		
with gG fuse	10 kA	10 kA
with RK1 NTD fuse	100 kA	100 kA

Auxiliaries / pilots contacts

I_n	5 A	10 A
U_{max} (V AC/V DC)	500 V	400 V
(f) Number of auxiliaries / pilots contacts	4 aux	6 aux
Connection (min - max): mm ²		
Flexible wiring	2.2	2.2
Tightening torque	Pre-wired	

Used as connector according to IEC/EN 61984: In

	90 A	150 A
U_{max}	1000 V AC	1000 V AC
	1500 V DC	1500 VDC

Breaking as plug and socket-outlet according to IEC/EN 60309-1

(g) I_n (A) / U_{max} (V AC)	63 - 1 000	125 - 1 000
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Breaking as switch according to IEC/EN 60947-3

(g) Category AC-22A: I_e (A) - U_e (V AC)	63 - 690	150 - 600
(g) Category AC-23A: I_e (A) - U_e (V AC)	90 - 400	100 - 440

Breaking as plug and socket-outlet according to UL 2682

Power: HP	50	75
Increase of DC load-breaking capacity (contacts in series)	Option	Option

Number of operations

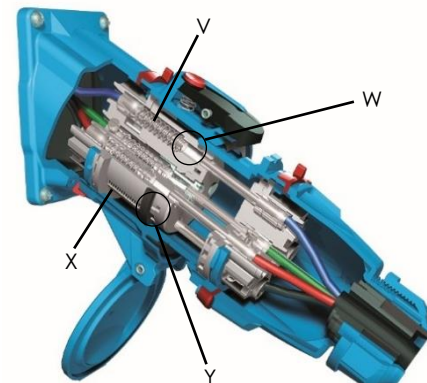
According to IEC/EN 60309-1 : $\cos(\Phi)$ 0,7	2 000	500
According to UL 2682 : $\cos(\Phi)$ 0,75	6 000	6 000

Isolating distance

	17 mm	18 mm
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Thermal features

Temperature of use mini/maxi (°C)	-40/+60 °C	-40/+60 °C
Storage temperature mini/max: (°C)	-40/+80 °C	-40/+80 °C
Maximal temperature rise (Kmax)	37 K	33 K
Time constant (to reach 63 % of Kmax)	26 mn	42 mn

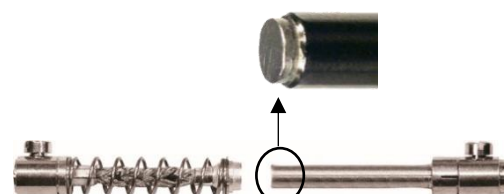


V : Contact spring

X : Ejection spring

W : Arc chamber

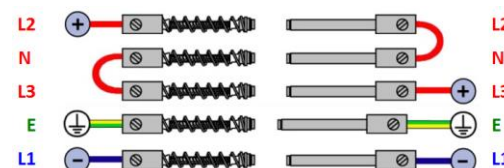
Y : Ejection ring



Contacts with silver nickel alloy tips (Ag/Ni : 85/15)



Spring assisted terminal:
Stainless steel ring



Contacts in series

Mechanical features

(h) IP: connected device

Metal enclosure IP66/IP67/IP69
Insulating enclosure IP66/IP67/IP69

(h) IP: lid/cap closed

Metal enclosure IP66/IP67/IP69
Insulating enclosure IP66/IP67/IP69

(h) IP: socket-outlet with lid/cap opened

IP4X - Safety shutter

(i) IK

Metal enclosure IK09 IK10
Insulating enclosure IK09 IK09

Retaining/releasing device

(i) Casing

Red release button

Metallic Aluminium alloy
Insulating GRP (poly)
Standard color MARECHAL® Blue
Other colors On request

Vibrations resistance

Resistance to chemical agents

✓ ✓

Metal enclosure ✓ ✓
Insulating enclosure Contact us
f1 f1

Protection against UV (according to UL 746C or equivalent)

Salt mist resistance

Metal enclosure Contact us
Insulating enclosure > 50 000 h
Stainless steel

Screws and bolts

Weight of inlet without accessory (≈)

Weight of socket-outlet without accessory (≈)

0.7 kg 1.4 kg
1.2 kg 2.3 kg

Main options

Socket-outlet opening up to 180°

Self-returning lid

Inlet cap

Self-returning inlet lid

Locking / padlocking

Screw locking

Automatic self-ejection

Larger release button ("STOP")

Included Included
IP40 IP40
IP66/IP67 IP66/IP67

✓ ✓

✓ ✓

✓ ✓ (k)

Metal enclosure ✓ Included
Insulating enclosure ✓ ✓

Finger draw plates

(i) Electromagnetic compatibility (EMC)

✓ ✓

Mounting accessories

Poly sleeve: angle (°)

Metal sleeve: angle (°)

Poly box: angle (°)

Metal box: angle (°)

Poly box + poly sleeve: angle (°)

Metal box + poly sleeve: angle (°)

Metal box + metal sleeve: angle (°)

Poly straight handle with built-in cable gland: range take (mm)

Elastomer straight handle with built-in cable gland: range take (mm)

Threaded poly straight handle

Threaded metal straight handle

Poly straight handle + separated poly cable gland: range take (mm)

Metal straight handle + separated metal cable gland: range take (mm)

30/70 30
0/30/70 0/30/70
30 0/30/70
20
70
30 30
0/30/70 0/30/70
13 - 35 18 - 49
M32 - M50 M50 - M63
M25 - M50 M32 - M63
14 - 38 14 - 48
8 - 44 15 - 48

Spare parts

Inlet or socket-outlet interior moulding

Inlet or socket-outlet contacts

Inlet or socket-outlet colored gasket

Inlet or socket-outlet casing

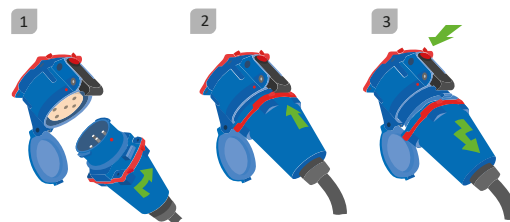
Socket-outlet casing gasket

✓ ✓
✓ ✓
✓ ✓
✓ ✓
✓ ✓

Catalog: Web link

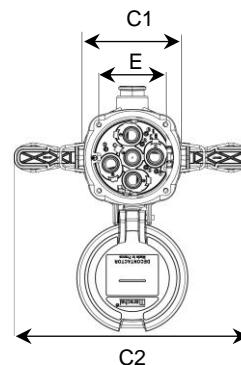
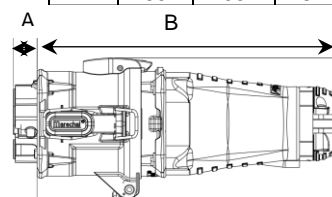
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Dimensions

	DS6		DS9	
mm	GRP	Metal	GRP	Metal
A	25	25	27	27
B	207	241	313	299
C1	98	98	126	140
C2			322	322
E	66	66	81	81

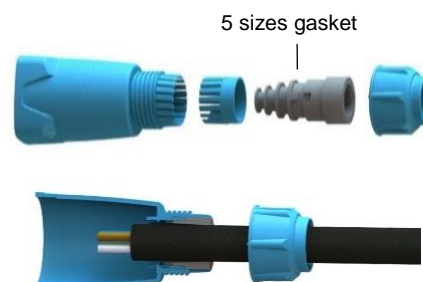


Finger draw plate



Locking pin for 2 padlocks

Poly straight handle with built-in cable gland



- (a) European Regulation REACH: registration, evaluation, authorisation and restriction of chemicals
 - IEC/EN 60309-1 : "Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements"
 - IEC/EN 60309-4 : "Plugs, socket-outlets and couplers for industrial purposes – Part 4: Switched socket-outlets and connectors with or without interlock"
 - IEC/EN 60947-3 : "Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units"
 - IEC/EN 61984 : "Connectors – Safety requirements and tests"
 - UL 1682 : "Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type"
 - UL 2682 : "Outline of Investigation for Switch-Rated Plugs and Receptacles"
 - CSA C22,2 No 182,1-07 : "Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type"
 - GB/T 11918.1 : "Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements"
- (b) In : Rated current as defined by the manufacturer
- (c) Other frequency: contact us
- (d) Contacts with silver-nickel tips (Ag/Ni 85/15)
- (e) Number of voltage / frequency / grid, keying positions
- (f) Auxiliaries contacts are located on the plug and socket-outlet sides. Pilot contacts are only located on the socket-outlet side.
- (g) For direct current applications : contact us
- (h) IP : Degrees of protection provided by enclosures (IEC/EN 60529)
- (i) IK : Degrees of protection provided by enclosures against mechanical impacts (IEC/EN 62262)
- (j) GRP : Glass-reinforced technical plastic
- (k) Option available for metal version only
- (l) Suitable for EMC environments: use of metallic housings and accessories, and cable gland with shielding recovery.