

DS2 DECONTACTOR™ is a compact and waterproof plug and socket-outlet with integrated switch for industrial applications.
DS4 is a high power connector.

DS2 et DS4 DECONTACTOR™ comply with the following regulations and standards^(a) :

European Directives 2014/35/EU Low Voltage and 2020/95/EC RoHS (affixing of CE marking), REACH European Regulation.

DS2 complies with IEC/EN 60309-1, IEC/EN 60309-4, IEC/EN 60947-3 (dealing with the load break capability AC-22 and AC-23), UL 1682, UL 2682 (USA), CSA C22.2 N° 182.1-07 (Canada) standards, MIL-S-901D (sea military specifications).

DS2 DECONTACTOR™ is certified by the following certification bodies:

LCIE (France), UL (USA), SAA (Australia), VDE (Germany), TR CU (Russia), CSA (Canada), Bureau Veritas Marine, MIL-S-901D (Military).



The use of DS2 DECONTACTOR™ facilitates the compliance with:

- electrical machinery to the "Machinery" European Directive 2006/42/EC on isolating device, and to standard EN 60204-1 : Safety of machinery-
electrical equipment of machines

- electrical installation:

* to the French decree of 20 december 2011 relating to removable electrical equipment and their conditions of connection and use,

* to the French decree of 14 november 1988 relating to the workers protection against electrical risks,

* to national regulations relating to workers protection in 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

	DS2	DS4
$I_n^{(b)}$	250 A	400 A
U_{max} (V AC/V DC)	1 000/1 500	1 000/1 500
Frequency ^(c)	≤ 400 Hz	≤ 400 Hz
Number of contacts ^(d)	4P + E	3P + E
Number of keying positions ^(e)	12	12
Connection (min - max) : mm ²		
	Flexible wiring : power contact	70 - 95
	Stranded wiring : power contact	70 - 120
Tightening torque :	hex head screw	
	Power contact	15 Nm
Wiring lugs	option	option
I_{cc} : rated conditional short circuit current		
	using a type gG fuse	10 kA
	using a type RK1 NTD fuse	10 kA

Auxiliaries / pilots

	DS2	DS4
I_n	5 A	5 A
U_{max} (V AC/V DC)	400	400
Number of auxiliaries / pilots ^(f)	6 aux	2 pilotes
Connection (min - max) : mm ²		
	Flexible wiring	2,2
	Stranded wiring	X
Tightening torque :	0,8 Nm	0,8 Nm

Used as connector according to IEC/EN 61984 : I_n

	DS2	DS4
U_{max}	1 000 V AC	1 000 V AC
	1 500 V DC	1 500 V DC

Breaking as plug and socket-outlet according to IEC/EN 60309^(g)

I_n (A) / U_{max} (V AC)	250 / 500	X
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Breaking as switch according to IEC/EN 61947-3^(g)

Category AC-22A : I_n (A) / U_{max} (V AC)	250 / 400	X
Category AC-23A : I_n (A) / U_{max} (V AC)	160 / 440	X

Breaking as plug and socket-outlet according to UL 2682

Power : HP	100	X
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Increase of DC load-break capacity (contacts in series)

option	X
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Number of operations

According to IEC/EN 60309-1 : Cos. Φ 0,6	250	X
According to UL 2682 : Cos. Φ 0,75	6 000	X

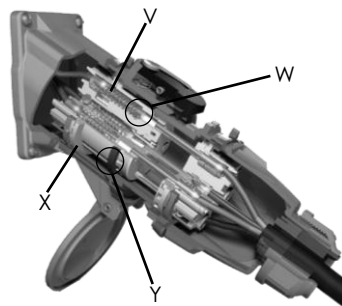
Isolating distance

20 mm	20 mm
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DS2



DS4

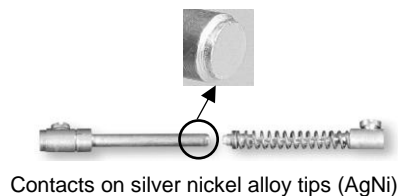


V : Contact spring

X : Ejection spring

W : Arc chamber

Y : Ejection ring



Contacts on silver nickel alloy tips (AgNi)



DS2 : Elastic tightening terminal



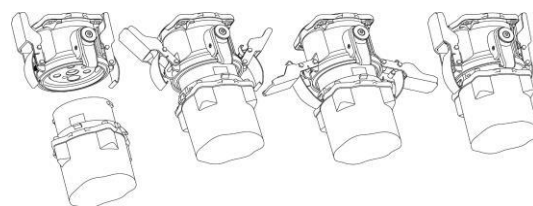
DS4 : Cage terminal

Thermal features

Temperature of use	← -40 °C / +60 °C →
Storage temperature	← -40 °C / +80 °C →
Maximal temperature rise (K _{max}): new product	50 K
Time constant (to reach 63% of K _{max})	55 mn

DS2

DS4



Mechanical features

IP ^(h) : connected product	IP66/IP67	IP66/IP67
IP : cover/cap closed	IP66/IP67	IP66/IP67
IP : socket-outlet opened with cover (safety shutter)	IP3X	IP3X
IK ⁽ⁱ⁾	IK10	IK10
Unlocking / opening	Red release button	
Enclosure	Aluminium / Zamak	

MARECHAL® standard color

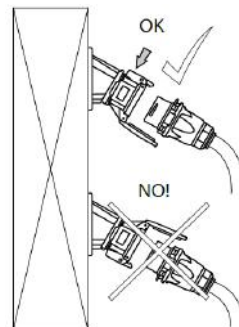
Blue

Grey

Other colors

On request

Vibrations resistance	✓	✓
Resistance of chemical agents	✓	✓
Protection against UV according to UL 746C	← Not applicable →	
Salt mists resistance	✓	✓
Screws and bolts	← Stainless steel →	
Weight of inlet without accessories: (approx)	2,20 kg	3,40 kg
Weight of outlet without accessories: (approx)	3 kg	4,90 kg



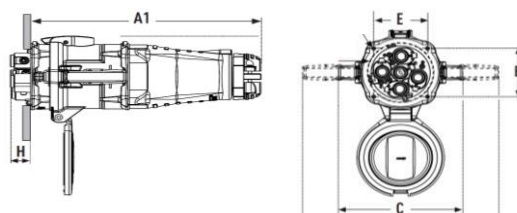
Main options available

Self-returning lid	✓ (IP40)	✓ (IP40)
Inlet cap (IP66/IP67)	✓	✓
Locking / padlocking	✓	✓
Larger release button ("STOP")	✓	✓
Electromagnetic compatibility (EMC)	✓	X

Mounting accessories

Metal sleeve (angle)	Straight / 60°	60°
Metal box (angle)	60°	70°
Poly straight handle with integrated cable gland: clamping range	40/63 mm	X
Elastomer straight handle with integrated cable gland: clamping range	25/49 mm	X
Threaded poly straight handle	M63 - M75	X
Threaded metal straight handle	M50 - M75	M50 - M63

Dimensions



mm	DS2	DS4
H	38	89
A1	360	605
E	98	165
C	192	224

Spare parts available

Inlet or socket-outlet internal isolating element	✓	✓
Inlet or socket-outlet contacts	✓	✓
Inlet or socket-outlet colored gasket	✓	X
Inlet or socket-outlet casing	✓	✓
Joint d'étanchéité côté socle	✓	✓

- (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"
- (b) I_n : Rated current, current value defined by the manufacturer
(c) Other frequency: contact us
(d) Silver contacts on silver-nickel alloy tips (AgNi)
(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 according to IEC/EN 60529 standard
(i) When the product is connected and locked with, the IP level doesn't depend on the closing aid
(j) IK : Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts according to IEC/EN 62262 standard