

DSN

COMPACT AND WATERTIGHT DECONTACTOR™ 20 A / 32 A / 63 A

- ▶ AUTOMATIC IP66/IP67 WATER- AND DUST-TIGHT SEALING
- ▶ AC-22 AND AC-23 BREAKING CAPACITY
- ▶ IMPACT-RESISTANT GRP CASING

With sizes from 20 to 63 A, DSN decontactors are highly compact: a 63 A plug is only 83 mm in diameter. Once connected, the plug and socket is automatically IP66/IP67, the socket-outlet is also IP66/IP67 when the lid is closed.

■ IP66/IP67 WATER- AND DUST-TIGHT

The sealing IP66/IP67 (water jet and temporary immersion) is provided automatically without additional operation. The DSN is the ideal product for the food industry.



■ MOUNTING: SWITCH SHOULD BE ON THE UPPER SIDE!

The decontactor is a socket-outlet with integral switching. It does not need to be interlocked with a switch. The switch button is highlit for easier identification. When installing the socket-outlet, ensure the switch button is positioned upwards.



SPECIFICATION

Plug and socket-outlet with incorporated breaking capacity AC-22 / AC-23, IP66/IP67 without additional operation, safety shutter (socket IP4X/IPXXD) silver-nickel butt contacts and metallic braid, comply with BECMA international standard.



TECHNICAL FEATURES

Plugs and sockets with integral load-break switching capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

	DSN1	DSN3	DSN6
Rated current (In)	20 A	32 A	63 A
U_{max}	500 V	690 V	1 000 V
AC-22 switching capability	20 A / 500 V	32 A / 690 V	50 A / 690 V
AC-23 switching capability	20 A / 400 V	32 A / 400 V	63 A / 400 V
Auxiliary contacts (optional)	-	2	4
Keying positions ⁽¹⁾	24 for all DSN		
Ambient temperature	-40 °C to +60 °C for all DSN		
Short-circuit current I_{cc}	10 kA for all DSN		

⁽¹⁾ To distinguish between different power supplies and applications

STANDARDS ASPECTS

DSN decontactors comply with:

- IEC EN 60309-1 & IEC EN 60309-4 European and International standards (plugs and socket-outlets for industrial purposes),
- The European Low Voltage Directive 2006/95/CE,
- The European 'Machine Directive' 2006/42/CE regarding equipment isolation,
- The French NF C 15-100 standard,
- The French decree dated 20 December 2011 pertaining to the wiring and operating conditions of movable electrical apparatuses,
- The decrees relating to workers' protection in Belgium, Spain and Italy,
- The switch utilization categories AC-22A and AC-23A described in IEC EN 60947-3.
- The UL 1682 (USA) and CSA C22.2 N° 182.1-07 (Canada) standards for plugs and socket-outlets

Also certified by VERITAS LCIE, UL, AS, VDE, TR CU (GOST) and cCSAus (French, American, Australian, German, Russian and Canadian inspection laboratories), and by BUREAU VERITAS MARINE.





WALL MOUNTING SOCKET DSN¹

PLUG DSN¹



Wall box poly 30°
611A053



Socket-outlet
6114017



Straight handle poly
611A013



Inlet
6118017

MAIN FEATURES

Rated current (with wiring according to standard)	20 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	500 V	Flexible wiring (min-max)	1 - 2,5 mm ²
IP protection lid closed	IP66/IP67	Stranded wiring (min-max)	1,5 - 4 mm ²
IP protection connected plug	IP66/IP67	Other wiring	on request
Shock resistance	IK08	Keying positions	24

LOAD-BREAK CAPABILITY OF THE DECONTACTOR™

Comply with IEC EN 60309-1 and IEC EN 60309-4 standards	20 A / 500 V
Load-break capability according to IEC EN 60947-3 / AC-22A	20 A / 500 V
Load-break capability according to IEC EN 60947-3 / AC-23A	20 A / 400 V
Short-circuit current I _{cc}	10 kA

DUAL VOLTAGE SOCKET-OUTLET (SEE P.8)

SOCKET-
OUTLET female
DSN¹ (20 A)



INLET male
DSN¹ (20 A)

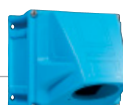


Voltage 50 Hz	Polarity	Part no.	Part no.
20 - 24 V	2P	611408A	611808A
190 - 230 V	3P+E	6114033	6118033
220 - 250 V	1P+N+E	6114015	6118015
380 - 440 V	3P+E	6114013	6118013
220 - 250 V 380 - 440 V	3P+N+E	6114017	6118017
480 - 500 V	3P+E	6114093	6118093
480 - 500 V	3P+N+E	6114097	6118097

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



CERTIFICAT N°
FR 60042266D

BOXESCable gland
not included**Wall box
poly 30°****Wall box metal +
Inclined poly 30°****Wall box poly +
Inclined poly 70°**

Entry

M20

611A053

611A653

Not drilled and
without cable
gland
Part no. 51AA058**SLEEVES****Inclined
poly 30°**

611A057

**Inclined
poly 70°**

51AA757

HANDLES**Straight poly****Straight poly****Angled poly****Straight poly with
poly cable gland****Straight poly
without cable
gland with metric
threaded entry**

9-18 mm	611A013		01NA313	5-12 mm	611A753	M20	611A253417
5-21 mm		611A413		9-18 mm	611A25325P	M25	611A253418
				14-25 mm	611A25332P	M32	611A253419

**INDUSTRIAL-DOMESTIC
ADAPTERS**Industrial inlet MARECHAL® 1P+N+E + domestic socket-outlet
10/16 A 230V.

Type	Material	Part no.
France	Poly	6118015D11
UK	Poly	6118015D40
Germany	Poly	6118015D30
Italy	Poly	6118015D06

ACCESSORIES & OPTIONS**Locking with shaft for 3 padlocks
ø 4 mm (padlocks not supplied)**

Socket no. + 844

**Locking with shaft for 2 padlocks
ø 8 mm (padlocks not supplied)**

Socket no. + Z1646

Lockable plug: contact us**E-Stop button**

Socket no. + 453

Inlet cap

611A426

**Closing mechanism (in-line connections)
(a pair of finger draw plates)**

611A346

180° opening lid

Socket no. + 10

Self-returning lid

Socket no. + R

180° opening and self-returning lid

Socket no. + 18

INFO +**TPM: Electrical inlet with flap/DSN1****Electrical inlet with direct
introduction.**
See page 116



WALL MOUNTING SOCKET DSN³



PLUG DSN³



Wall box poly 30°
613A053



Socket-outlet
6134017



Straight handle poly
613A013



Inlet
6138017

MAIN FEATURES

Rated current (with wiring according to standard)	32 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 connected plug	IP66/IP67	Other wiring	on request
Shock resistance	IK08	Keying positions	24

LOAD-BREAK CAPABILITY OF THE DECONTACTOR™

Comply with IEC EN 60309-1 and IEC EN 60309-4 standards	32 A / 690 V
Load-break capability according to IEC EN 60947-3 / AC-22A	32 A / 690 V
Load-break capability according to IEC EN 60947-3 / AC-23A	32 A / 400 V
Short-circuit current I _{cc}	10 kA

DUAL VOLTAGE SOCKET-OUTLET (SEE P.8)

SOCKET-OUTLET female DSN³ (32 A)



INLET male DSN³ (32 A)



Voltage 50 Hz	Polarity	Part no.	Part no.
20 - 24 V	2P	613408A	613808A
190 - 230 V	3P+E	6134033	6138033
220 - 250 V	1P+N+E	6134015	6138015
380 - 440 V	3P+E	6134013	6138013
220 - 250 V 380 - 440 V	3P+N+E	6134017	6138017
660 - 690 V	3P+E	6134193	6138193
380 - 440 V 660 - 690 V	3P+N+E	6134197	6138197

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

AUXILIARY CONTACTS

Socket-outlet with 2 auxiliary contacts (30 A / 500 V)	Socket no. + 972
Inlet with 2 auxiliary contacts (30 A / 500 V)	Inlet no. + 972



CERTIFICAT N°
FR 60042266E

BOXESCable gland
not included**Wall box
poly 30°****Wall box metal +
Inclined poly 30°****Wall box metal +
straight metal
sleeve****Wall box poly +
Inclined poly 70°**

Entry				
M20	613A053	613A653	693A095	Not drilled and without cable gland Part no. 51BA058
M25	613A083	613A653418	693A095418	
M32		613A653419	693A095419	
M40		613A653420	693A095420	

SLEEVES**Inclined
poly 30°****Inclined
poly 70°****Straight
metal**

613A027

51BA757

693A127

HANDLES**Straight poly****Straight poly with
poly cable gland****Straight metal
with metal cable
gland****Straight poly
without cable
gland with metric
threaded entry**

5-21 mm	613A013	5-12 mm	613A753	7-13 mm	613A963	M20	613A253417
		9-18 mm	613A25325P	8-16 mm	613A95325M	M25	613A253418
		14-25 mm	613A25332P			M32	613A253419
		18-32 mm	613A25340P			M40	613A253420

**INDUSTRIAL-DOMESTIC
ADAPTERS**Industrial inlet MARECHAL® 1P+N+E domestic socket-outlet
10/16 A 230V fuse protection 10 A and 16 A.

Type	Material	Part no.
France	Poly	6138015D11*
UK	Poly	6138015D40
Germany	Poly	6138015D30
Italy	Poly	6138015D06

ACCESSORIES & OPTIONS**Locking with shaft for 3 padlocks
ø 4 mm (padlocks not supplied)**

Socket no. + 844

**Locking with shaft for 2 padlocks
ø 8 mm (padlocks not supplied)**

Socket no. + Z1646

Lockable plug: contact us**E-Stop button**

Socket no. + 453

Self-closing lid for inlet

613A226

Inlet cap

613A426

**Closing mechanism (in-line connections)
(a pair of finger draw plates)**

613A346

180° opening lid**Self-returning lid****180° opening and self-returning lid**

Socket no. + 10

Socket no. + R

Socket no. + 18

**INFO +****Phase tester**This accessory checks the correct wiring of
phases from 250 to 690 V, and tests the
phase orientation of three phase sources.

Please consult us.



WALL MOUNTING SOCKET DSN6



PLUG DSN6



Wall box poly 70°
51CA058



Socket-outlet
6164017



Straight handle poly
616A013



Inlet
6168017

MAIN FEATURES

Rated current (with wiring according to standard)	63 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	1000 V	Flexible wiring (min-max)	6 - 16 mm ²
IP protection lid closed	IP66/IP67	Stranded wiring (min-max)	10 - 25 mm ²
IP protection connected plug	IP66/IP67	Other wiring	on request
Shock resistance	IK08	Keying positions	24

LOAD-BREAK CAPABILITY OF THE DECONTACTOR™

Comply with IEC EN 60309-1 and IEC EN 60309-4 standards	(63 A / 690 V) or (45 A / 1 000 V)
Load-break capability according to IEC EN 60947-3 / AC-22A	50 A / 690 V
Load-break capability according to IEC EN 60947-3 / AC-23A	63 A / 400 V
Short-circuit current I _{cc}	10 kA

DUAL VOLTAGE SOCKET-OUTLET (SEE P.8)

SOCKET-
OUTLET female
DSN6 (63 A)



INLET male
DSN6 (63 A)



Voltage 50 Hz	Polarity	Part no.	Part no.
20 - 24 V	2P	616408A	616808A
190 - 230 V	3P+E	6164033	6168033
220 - 250 V	1P+N+E	6164015	6168015
380 - 440 V	3P+E	6164013	6168013
220 - 250 V 380 - 440 V	3P+N+E	6164017	6168017
660 - 690 V	3P+E	6164193	6168193
380 - 440 V 660 - 690 V	3P+N+E	6164197	6168197

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

AUXILIARY CONTACTS

Socket-outlet with 2 auxiliary contacts (16 A / 400 V)
Inlet with 2 auxiliary contacts (16 A / 400 V)

Socket no. + 972
Inlet no. + 972

Socket-outlet with 4 auxiliary contacts (16 A / 400 V)
Inlet with 4 auxiliary contacts (16 A / 400 V)

Socket no. + 264
Inlet no. + 264



CERTIFICAT N°
FR 60037180-537184N

BOXES

Cable gland
not included



Wall box
poly 30°



Wall box metal +
Inclined poly 30°



Wall box metal +
straight metal sleeve



Wall box metal +
Inclined metal 70°



Wall box poly +
Inclined poly 70°

Entry					
M25	616A053	616A653	696A095	873A053	Not drilled and without cable gland Part no. 51CA058
M32		616A653419	696A095419	873A053419	
M40		616A653420	696A095420	873A053420	

SLEEVES



Inclined
poly 30°



Inclined
poly 70°



Straight
metal



Inclined
metal 70°

616A027	51CA757	696A127	873A087
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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	616A013	5-12 mm	616A25320P	7-13 mm	616A95320M	M20	616A253417
10-30 mm	616A473*	9-18 mm	616A753	8-16 mm	616A963	M25	616A253418
		14-25 mm	616A25332P	16-24 mm	616A95332M	M32	616A253419
		18-32 mm	616A25340P	22-32 mm	616A95340M	M40	616A253420

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

ACCESSORIES & OPTIONS

Locking with shaft for 3 padlocks
ø 4 mm (padlocks not supplied)

Socket no. + 844

Locking with shaft for 2 padlocks
ø 8 mm (padlocks not supplied)

Socket no. + Z1646

Lockable plug: contact us

E-Stop button

Socket no. + 453

Self-closing lid for inlet

616A226

Inlet cap

616A426

Closing mechanism (in-line connections)
(a pair of finger draw plates)

616A346

180° opening lid

Self-returning lid

180° opening and self-returning lid

Socket no. + 10

Socket no. + R

Socket no. + 18

