



# DN

## ROBUST DECONTACTOR™ 20 A / 30 A / 50 A / 90 A

- ▶ AUTOMATIC IP54/IP55 WATER- AND DUST-TIGHT
- ▶ IMPACT-RESISTANT METAL CASING
- ▶ SUITABLE FOR HEAVY INDUSTRY

The DN family of decontactors cover ratings from 30 to 150 A (ratings specified by IEC 60309-1). DN decontactors offer safety and reliability in heavy duty environments. The metal casings and accessories are anticorrosion treated.

### ■ SILVER-NICKEL BUTT CONTACTS

MARECHAL® products are manufactured with high-quality materials adapted to suit harsh environments. They are fitted with spring-loaded butt contacts guaranteeing a permanent and long-lasting connection. Silver-nickel tips, at the end of each contact, ensure high-quality electrical performance and excellent resistance to humid and corrosive environments, even after years of use.





## SPECIFICATION

Metal-bodied plug and socket-outlet with integral switching device  
AC-22, silver-nickel butt contacts with metallic braid, comply with MARECHAL® international standard.

## TECHNICAL FEATURES

Plugs and sockets with integral load-break switching capability according to IEC EN 60947-3.

	DN8	DN1	DN3	DN6
<b>Rated current (In)</b>	20 A	30 A	50 A	90 A
<b>Umax</b>	500 V	500 V	500 V	500 V
<b>AC-22 switching capability</b>	20 A / 400 V	30 A / 400 V	50 A / 400 V	90 A / 400 V
<b>Auxiliary contacts (optional)</b>	-	-	-	4
<b>Keying positions <sup>(1)</sup></b>	16	16	16	16
<b>Ambient temperature</b>	-40 °C to +60 °C for all DN			

<sup>(1)</sup> To distinguish between different power supplies and applications

## STANDARDS ASPECTS

**DN deconnectors comply with:**

- The essential requirements of 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 (2014/35/EU from April 20 2016),
- 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 load-break capability for AC-22 category described in IEC EN 60947-3.

Also certified by TR CU (GOST) (Russian inspection laboratory).

**ERC**

TYPICAL CONFIGURATION



WALL MOUNTING SOCKET DN8



PLUG DN8



Wall box metal 20°  
198A053



Socket-outlet  
1984017



Straight handle poly  
118A013



Inlet  
1988017

## 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 - 6 mm <sup>2</sup>
IP protection lid closed	IP55	Solid or stranded wiring (min-max)	1,5 - 10 mm <sup>2</sup>
IP protection connected plug	IP54	Other wiring	on request
Shock resistance (metal casing)	IK09	Keying positions	16

## 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 / 400 V) or (10 A / 500 V)

SOCKET-  
OUTLET female  
DN8 (20 A)



INLET male  
DN8 (20 A)



DUAL VOLTAGE SOCKET-OUTLET  
(SEE P.8)

Voltage 50 Hz	Polarity	Part no.	Part no.
20 - 24 V	2P	198408A	198808A
190 - 230 V	3P+E	1984033	1988033
220 - 250 V	1P+N+E	1984015	1988015
380 - 440 V	3P+E	1984013	1988013
220 - 250 V 380 - 440 V	3P+N+E	1984017	1988017
480 - 500 V	3P+E	1984093	1988093
480 - 500 V	3P+N+E	1984097	1988097

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

**BOXES**

Cable gland not included



Wall box metal 20°



Wall box poly 30°



Wall box metal + Inclined metal 30°



Wall box metal + straight metal sleeve



Wall box poly + Inclined poly 70°

Entry	198A053	118A053	198A653	198A095	
M20	198A053	118A053	198A653	198A095	
M25			198A653418	198A095418	Not drilled and without cable gland Part no. 51BA058
M32			198A653419	198A095419	
M40			198A653420	198A095420	

**SLEEVES**



Inclined poly 30°

118A027



Inclined metal 30°

198A027



Inclined poly 70°

51BA757



Straight metal

198A127

**HANDLES**



Straight poly

5-21 mm 118A013



Straight poly with poly cable gland

5-12 mm

198A753



Straight metal with metal cable gland

7-13 mm

198A963



Straight poly without cable gland with metric threaded entry

M20

198A253417

5-21 mm	118A013	5-12 mm	198A753	7-13 mm	198A963	M20	198A253417
		9-18 mm	198A25325P	8-16 mm	198A95325M	M25	198A253418
		14-25 mm	198A25332P			M32	198A253419
		18-32 mm	198A25340P			M40	198A253420

**INDUSTRIAL-DOMESTIC ADAPTERS**



Industrial inlet MARECHAL® 1P+N+E + domestic socket outlet 10/16 A 230V.

Type	Material	Part no.
France	GRP	1188015D11
France	Metal	1988015D11
UK	GRP	1188015D40
UK	Metal	1988015D40
Germany	GRP	1188015D30
Germany	Metal	1988015D30
Italy	GRP	1188015D06
Italy	Metal	1988015D06

**ACCESSORIES & OPTIONS**

Locking with shaft for 3 padlocks  
ø 8 mm (padlocks not supplied)

Socket no. + 844

Lockable plug: contact us

Padlocking device 1 to 6 padlocks  
873A541

E-Stop button

Socket no. + 453

Inlet cap

198A126

180° opening lid

Self-returning lid

180° opening and self-returning lid

IP66/IP67 metal bodies (socket & inlet)

Socket no. + 10

Socket no. + R

Socket no. + 18

Part no. + 600



TYPICAL CONFIGURATION



**WALL MOUNTING SOCKET DN1**

- Wall box metal 20° 191A053
- Socket-outlet 1914017

**PLUG DN1**

- Straight handle poly 191A013
- Inlet 1918017

## MAIN FEATURES



Rated current (with wiring according to standard)	30 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	500 V	Flexible wiring (min-max)	2,5 - 6 mm <sup>2</sup>
IP protection lid closed	IP55	Stranded wiring (min-max)	2,5 - 10 mm <sup>2</sup>
IP protection connected plug	IP54	Other wiring	on request
Shock resistance (metal casing)	IK09	Keying positions	16

## LOAD-BREAK CAPABILITY OF THE DECONTACTOR™

Comply with IEC EN 60309-1 and IEC EN 60309-4 standards	30 A / 500 V
Load-break capability according to IEC EN 60947-3 / AC-22A	(30 A / 400 V) or (16 A / 500 V)

**DUAL VOLTAGE SOCKET-OUTLET (SEE P.8)**

Voltage 50 Hz	Polarity	Part no.	Part no.
20 - 24 V	2P	191408A	191808A
190 - 230 V	3P+E	1914033	1918033
220 - 250 V	1P+N+E	1914015	1918015
380 - 440 V	3P+E	1914013	1918013
220 - 250 V 380 - 440 V	3P+N+E	1914017	1918017
480 - 500 V	3P+E	1914093	1918093
480 - 500 V	3P+N+E	1914097	1918097

**SOCKET-OUTLET female DN1 (30 A)** 
**INLET male DN1 (30 A)** 

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

**BOXES**

Cable gland not included



Wall box metal 20°

Wall box metal + Inclined metal 70°

Wall box metal + Inclined metal 30°

Wall box metal + straight metal sleeve

Entry				
M20	191A053	873A053417	191A653	191A095
M25	191A053418	873A053	191A653418	191A095418
M32	191A053419	873A053419	191A653419	191A095419
M40		873A053420	191A653420	191A095420

**SLEEVES**



Inclined metal 30°

Inclined metal 70°

Straight metal

191A027	873A087	191A127
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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	191A013	5-12 mm	191A753	7-13 mm	191A963	M20	191A253417
10-30 mm	191A473*	9-18 mm	191A25325P	8-16 mm	191A95325M	M25	191A253418
		14-25 mm	191A25332P	16-24 mm	191A95332M	M32	191A253419
		18-32 mm	191A25340P	22-32 mm	191A95340M	M40	191A253420

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

**ACCESSORIES & OPTIONS**

Locking with shaft for 3 padlocks  
ø 8 mm (padlocks not supplied)

Socket no. + 844

Lockable plug: contact us

Padlocking device 1 to 6 padlocks  
873A541



E-Stop button

Socket no. + 453



Inlet cap

191A126



180° opening lid

Self-returning lid

180° opening and self-returning lid

IP66/IP67 (socket & inlet)

Socket no. + 10

Socket no. + R

Socket no. + 18

Part no. + 600

TYPICAL CONFIGURATION

**WALL MOUNTING SOCKET DN3**



**PLUG DN3**



	+	
Wall box metal 20° 193A053		Socket-outlet 1934017
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	+	
Straight handle poly 193A013		Inlet 1938017

## MAIN FEATURES

Rated current (with wiring according to standard)	50 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	500 V	Flexible wiring (min-max)	2,5 - 16 mm <sup>2</sup>
IP protection lid closed	IP55	Stranded wiring (min-max)	2,5 - 25 mm <sup>2</sup>
IP protection connected plug	IP54	Other wiring	on request
Shock resistance (metal casing)	IK09	Keying positions	16

## LOAD-BREAK CAPABILITY OF THE DECONTACTOR™

Comply with IEC EN 60309-1 and IEC EN 60309-4 standards	50 A / 500 V
Load-break capability according to IEC EN 60947-3 / AC-22A	(50 A / 400 V) or (32 A / 500 V)

Voltage 50 Hz	Polarity	SOCKET-OUTLET female DN3 (50 A)		INLET male DN3 (50 A)	
		Part no.	Part no.	Part no.	Part no.
20 - 24 V	2P	193408A	193808A		
190 - 230 V	3P+E	1934033	1938033		
220 - 250 V	1P+N+E	1934015	1938015		
380 - 440 V	3P+E	1934013	1938013		
220 - 250 V 380 - 440 V	3P+N+E	1934017	1938017		
480 - 500 V	3P+E	1934093	1938093		
480 - 500 V	3P+N+E	1934097	1938097		

**DUAL VOLTAGE SOCKET-OUTLET (SEE P.8)**

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

**BOXES**

Cable gland not included



Wall box metal 20°



Wall box metal + Inclined metal 70°



Wall box metal + Inclined metal 30°



Wall box metal + straight metal sleeve

Entry				
M25	193A053	876A053	193A653	193A095
M32		876A053419	193A653419	193A095419
M40		876A053420	193A653420	193A095420
M50		876A053429	193A653429	193A095429

**SLEEVES**



Inclined metal 30°

193A027



Inclined metal 70°

876A087



Straight metal

193A127

**HANDLES**



Straight poly



Straight poly with poly cable gland



Straight metal with metal cable gland



Straight poly without cable gland with metric threaded entry

13-35 mm	193A013	5-12 mm	193A25320P	7-13 mm	193A95320M	M20	193A253417
13-35 mm	193A473*	9-18 mm	193A753	8-16 mm	193A963	M25	193A253418
		14-25 mm	193A25332P	16-24 mm	193A95332M	M32	193A253419
		18-32 mm	193A25340P	22-32 mm	193A95340M	M40	193A253420

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

**ACCESSORIES & OPTIONS**

Locking with shaft for 3 padlocks  
ø 8 mm (padlocks not supplied)

Socket no. + 844

Lockable plug: contact us

Padlocking device 1 to 6 padlocks

873A541

E-Stop button

Socket no. + 453

Inlet cap

193A126

180° opening lid

Self-returning lid

180° opening and self-returning lid  
IP66/IP67 (socket & inlet)

Socket no. + 10

Socket no. + R

Socket no. + 18

Part no. + 600





**TYPICAL CONFIGURATION**

**WALL MOUNTING SOCKET DN6**

Wall box metal 30° 196A653 + Socket-outlet 1964017

**PLUG DN6**

Straight elastomer 659A013D25 + Inlet 1968017

## MAIN FEATURES

Rated current (with wiring according to standard)	90 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	500 V	Flexible wiring (min-max)	10 - 25 mm <sup>2</sup>
IP protection lid closed	IP55	Stranded wiring (min-max)	10 - 35 mm <sup>2</sup>
IP protection connected plug	IP54	Other wiring	on request
Shock resistance (metal casing)	IK09	Keying positions	16

## LOAD-BREAK CAPABILITY OF THE DECONTACTOR™

Comply with IEC EN 60309-1 and IEC EN 60309-4 standards	90 A / 500 V
Load-break capability according to IEC EN 60947-3 / AC-22A	(90 A / 400 V) or (63 A / 500 V)

## DUAL VOLTAGE SOCKET-OUTLET (SEE P.8)

Voltage 50 Hz	Polarity	Part no.	Part no.
20 - 24 V	2P	196408A	196808A
190 - 230 V	3P+E	1964033	1968033
220 - 250 V	1P+N+E	1964015	1968015
380 - 440 V	3P+E	1964013	1968013
220 - 250 V 380 - 440 V	3P+N+E	1964017	1968017
480 - 500 V	3P+E	1964093	1968093
480 - 500 V	3P+N+E	1964097	1968097

**SOCKET-OUTLET female DN6 (90 A)** **INLET male DN6 (90 A)**

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

## AUXILIARY CONTACTS

Socket-outlet with 4 auxiliary contacts (5 A / 400 V)	Socket no. + 264
Inlet with 4 auxiliary contacts (5 A / 400 V)	Inlet no. + 264



**BOXES**

Cable gland  
not included



**Wall box metal +  
Inclined metal 70°**

**Wall box metal +  
Inclined metal 30°**

**Wall box metal +  
straight metal sleeve**

Entry			
M32	879A823419	196A653419	196A095419
M40	879A823420	196A653420	196A095420
M50	879A823	196A653	196A095
M63	879A823463	196A653463	196A095463

**SLEEVES**



**Inclined  
metal 30°**

**Inclined  
metal 70°**

**Straight  
metal**

196A027	879A087	196A127
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**HANDLES**



**Straight  
elastomer**

**Straight poly with  
metal cable gland**

**Straight metal  
with metal cable  
gland**

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

18-25 mm	659A013D25	35-48 mm	619A25363M	16-24 mm	196A95332M	M63	619A253463
25-35 mm	659A013D35			22-32 mm	196A963		
35-45 mm	659A013D45			34-44 mm	196A95350M		

**INFO +**

**Durability in harsh environments**

The DN deconnector is designed and built to resist in harsh environments.

Its metal body resists mechanical abuse and corrosion; its components are dimensioned to be durable in heavy industry and mines. The interior mouldings in both outlet and inlet provide effective protection against dust.

**ACCESSORIES & OPTIONS**

**Locking with shaft for 3 padlocks  
ø 8 mm (padlocks not supplied)**

Socket no. + 844

**Lockable plug: contact us**

**Padlocking device 1 to 6 padlocks  
873A541**



**E-Stop button**

Socket no. + 453



**Inlet cap**

196A126



**Closing mechanism**

Draw lever only: 196A376

Draw plate only: 196A396



**180° opening lid**

**Self-returning lid**

**180° opening and self-returning lid  
IP66/IP67 (socket & inlet)**

Socket no. + 10  
Socket no. + R  
Socket no. + 18  
Part no. + 600