

PN7c

- ▶ Up to 7 contacts
 - ▶ 25 A / 500 V max.
 - ▶ IP66/IP67
 - ▶ GRP or metal
- page 72



DN9c

- ▶ Up to 9 contacts
 - ▶ 30 A / 415 V max.
 - ▶ IP54/IP55
 - ▶ Metal
- page 74



PN12c

- ▶ Up to 12 contacts
 - ▶ 16 A / 480 V max.
 - ▶ IP66/IP67
 - ▶ GRP or metal
- page 76

RANGE SIGNAL & CONTROL

MARECHAL® multicontact connectors are used for signal and control applications such as temporary phone lines and control of overhead cranes. The solid silver-nickel contacts assure superior conductivity, electrical performance and durability. Also the materials used for the bodies resist extreme conditions in harsh environments.

Find all information on our website:



marechal.com



Technical documentation



Product configurator



DN20c

- ▶ Up to 20 contacts
- ▶ 25 A / 415 V max.
- ▶ IP54/IP55
- ▶ Metal

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DSN24c

- ▶ Up to 24 contacts
- ▶ 16 A / 415 V max.
- ▶ IP66/IP67
- ▶ GRP

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DSN37c

- ▶ Up to 37 contacts
- ▶ 16 A / 415 V max.
- ▶ IP66/IP67
- ▶ GRP

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TYPICAL CONFIGURATION

WALL MOUNTING SOCKET PN7c

PLUG PN7c

Wall box poly 30°
01NA053

Socket-outlet
01P4061

Straight handle poly
01NA013

Inlet
01P8061

MAIN FEATURES

Rated current/contact (wiring according to standard)	25 A	Shock resistance (metal casing)	IK09
Σ of currents (contacts)	≤ 130 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	500 V	Flexible wiring (min-max)	1 - 4 mm ²
IP protection lid closed	IP66/IP67	Stranded wiring (min-max)	1 - 6 mm ²
IP protection connected plug	IP66/IP67	Wiring (terminals)	screw-type
Shock resistance (poly casing)	IK08	Keying positions	5

**SOCKET-
OUTLET** female
PN7c (16/25 A)
GRP



INLET male
PN7c (16/25 A)
GRP



Umax	Polarity	Part no.	Part no.
50 V	5P (25 A)	01P4050	01P8050
50 V	6P (16 A)	01P4060	01P8060
50 V	7P (16 A)	01P4070	01P8070
500 V	4P+E (25 A)	01P4041	01P8041
500 V	5P+E (25 A)	01P4051	01P8051
500 V	6P+E (16 A)	01P4061	01P8061

Note: When using two different voltages on the same site, thank you for contacting us.

**SOCKET-
OUTLET** female
PN7c (16/25 A)
METAL



INLET male
PN7c (16/25 A)
METAL



Umax	Polarity	Part no.	Part no.
50 V	5P (25 A)	09P4050	09P8050
50 V	6P (16 A)	09P4060	09P8060
50 V	7P (16 A)	09P4070	09P8070
415 V	4P+E (25 A)	09P4041	09P8041
415 V	5P+E (25 A)	09P4051	09P8051
415 V	6P+E (16 A)	09P4061	09P8061

TYPICAL CONFIGURATION



WALL MOUNTING SOCKET DN9c

PLUG DN9c



Wall box metal 20°
191A053

Socket-outlet
1914081



Straight handle poly
191A013

Inlet
1918081

MAIN FEATURES

Rated current/contact (wiring according to standard)	30 A	Ambient temperature	-40 °C to +60 °C
Σ of currents (contacts)	≤ 210 A	Flexible wiring (min-max)	1 - 6 mm ²
Maximum voltage	415 V	Stranded wiring (min-max)	1,5 - 10 mm ²
IP protection lid closed	IP55	Wiring (terminals)	screw-type
IP protection connected plug	IP54	Keying positions	2
Shock resistance	IK09		

SOCKET-OUTLET female
DN9c (30 A)



INLET male
DN9c (30 A)



Umax	Polarity	Part no.	Part no.
50 V	6P	1914060	1918060
50 V	7P	1914070	1918070
50 V	8P	1914080	1918080
50 V	9P	1914090	1918090
415 V	5P+E	1914051	1918051
415 V	6P+E	1914061	1918061
415 V	7P+E	1914071	1918071
415 V	8P+E	1914081	1918081

Note: When using two different voltages on the same site, thank you for contacting us.

AUXILIARY CONTACTS

Including 2 pilot contacts (30 A)	Socket no. + 262
Including 2 pilot contacts (30 A)	Inlet no. + 262
Including 4 pilot contacts (30 A)	Socket no. + 264
Including 4 pilot contacts (30 A)	Inlet no. + 264

TYPICAL CONFIGURATION

WALL MOUNTING SOCKET PN12C

PLUG PN12C

Wall box poly 30° 01NA053 + Socket-outlet 01A4001

Straight handle poly 01NA013 + Inlet 01A8001

ELECTRICAL FEATURES

Maximum voltage	480 V
Impulse withstand voltage	5 kV / Pollution degree 3
Contact resistance	< 2mΩ
Permitted current range	4-20 mA / 16 A
Rated current percontact (max)	16 A
Total current carried	≤ 110 A
Flexible wiring (min-max)	1 - 2,5 mm ²
Wiring (terminals)	Crimp type terminals (tool optional) or directly soldered
Keying positions	2

CLIMATIC FEATURES

Ambient temperature	-40 °C to +60 °C
IP protection connected plug	IP66/IP67
IP protection lid closed	IP66/IP67
Salt, Fog performance	200 hrs minimum connected
Resistance to fluids	Motor oils, petrol, fats, detergents...

MECHANICAL FEATURES

Butt contacts	Female contacts: copper alloy silver plated / Male contacts: Silver-nickel tips
Contact protection	Silvering
Load cycles	More than 5000 cycles
Shock resistance (poly casing)	IK08
Shock resistance (metal casing)	IK09
Vibration	Frequency 5-1000 Hz, 1g / (90 minutes on each critical frequency) according to IEC 6068-2-6

SOCKET-OUTLET female PN12C (16 A) 

INLET male PN12C (16 A) 

Umax	Contacts	Part no.*	Part no.*
480 V	12 contacts	01A4001	01A8001

* The listed Part nos. call up GRP casings. For metal casings, replace prefix 01 with 09

Each product is supplied with 1 bag of 13 contacts depending on the maximum configuration. This allows you to configure the product as required.

BAG OF 13 CONTACTS (SUPPLIED WITH INSULATION SLEEVES AND FERRULES)

Female socket-outlet Part Number	01AA213
Male inlet Part Number	01AA113



MAIN FEATURES

Rated current/contact (wiring according to standard)	25 A	Ambient temperature	-40 °C to +60 °C
Σ of currents (contacts)	≤ 350 A	Flexible wiring (min-max)	1 - 6 mm ²
Maximum voltage	415 V	Stranded wiring (min-max)	1,5 - 10 mm ²
IP protection lid closed	IP55	Wiring (terminals)	screw-type
IP protection connected plug	IP54	Keying positions	4
Shock resistance	IK09		

**SOCKET-
OUTLET** female
DN20c (25 A)



INLET male
DN20c (25 A)



U _{max}	Polarity	Part no.	Part no.
50 V	10P	1964100	1968100
50 V	11P	1964110	1968110
50 V	12P	1964120	1968120
50 V	13P	1964130	1968130
50 V	14P	1964140	1968140
50 V	15P	1964150	1968150
50 V	16P	1964160	1968160
50 V	17P	1964170	1968170
50 V	18P	1964180	1968180
50 V	19P	1964190	1968190
50 V	20P	1964200	1968200
415 V	9P+E	1964091	1968091
415 V	10P+E	1964101	1968101
415 V	11P+E	1964111	1968111
415 V	12P+E	1964121	1968121
415 V	13P+E	1964131	1968131
415 V	14P+E	1964141	1968141
415 V	15P+E	1964151	1968151
415 V	16P+E	1964161	1968161
415 V	17P+E	1964171	1968171
415 V	18P+E	1964181	1968181
415 V	19P+E	1964191	1968191

Note: When using two different voltages on the same site, thank you for contacting us.



ELECTRICAL FEATURES

Maximum voltage	480 V
Impulse withstand voltage	5 kV / Pollution degree 3
Contact resistance	< 2mΩ
Permitted current range	4-20 mA / 16 A
Rated current per contact (max)	16 A
Total current carried	≤ 230 A
Flexible wiring (min-max)	1 - 2,5 mm ²
Wiring (terminals)	crimping
Keying positions	1

CLIMATIC FEATURES

Ambient temperature	-40 °C to +60 °C
IP protection connected plug	IP66/IP67
IP protection lid closed	IP66/IP67
Salt, Fog performance	200 hrs minimum connected
Resistance to fluids	Motor oils, petrol, fats, detergents...

MECHANICAL FEATURES

Butt contacts	Female contacts: copper alloy silver plated / Male contacts: Silver-nickel tips
Contact protection	Silvering
Load cycles	More than 5000 cycles
Shock resistance	IK08
Vibration	Frequency 5-1000 Hz, 1g / (90 minutes on each critical frequency) according to IEC 6068-2-6

SOCKET-OUTLET female
DSN24c (16 A)



INLET male
DSN24c (16 A)



Umax	Contacts	Part no.	Part no.
480 V	24 contacts	61B4002	61B8002

Each product is supplied with 2 bags of 13 contacts depending on the maximum configuration. This allows you to set up the product to suit your needs.

BAG OF 13 CONTACTS (SUPPLIED WITH INSULATION SLEEVES AND FERRULES)

Female socket-outlet Part Number	01AA213
Male inlet Part Number	61CA113



ELECTRICAL FEATURES

Maximum voltage	480 V
Impulse withstand voltage	5 kV / Pollution degree 3
Contact resistance	< 2mΩ
Permitted current range	4-20 mA / 16 A
Rated current per contact (max)	16 A
Total current carried	≤ 360 A
Flexible wiring (min-max)	1 - 2,5 mm ²
Wiring (terminals)	crimping
Keying positions	3

CLIMATIC FEATURES

Ambient temperature	-40 °C to +60 °C
IP protection connected plug	IP66/IP67
IP protection lid closed	IP66/IP67
Salt, Fog performance	200 hrs minimum connected
Resistance to fluids	Motor oils, petrol, fats, detergents...

MECHANICAL FEATURES

Butt contacts	Female contacts: copper alloy silver plated / Male contacts: Silver-nickel tips
Contact protection	Silvering
Load cycles	More than 5000 cycles
Shock resistance	IK08
Vibration	Frequency 5-1000 Hz, 1g / (90 minutes on each critical frequency) according to IEC 6068-2-6

**SOCKET-
OUTLET** female
DSN37c (16 A)



INLET male
DSN37c (16 A)



Umax	Contacts	Part no.	Part no.
480 V	37 contacts	61C4003	61C8003

Each product is supplied with 3 bags of 13 contacts depending on the maximum configuration. This allows you to set up the product to suit your needs.

BAG OF 13 CONTACTS (SUPPLIED WITH INSULATION SLEEVES AND FERRULES)

Female socket-outlet Part Number	01AA213
Male inlet Part Number	61CA113

STAR- DELTA

7 POLE DECONTACTORS AND CONNECTORS FROM 30 A TO 50 A

- ▶ STAR-DELTA START-UP
- ▶ CONNECTING MOTORS WITH TWO OPERATING SPEEDS
- ▶ SIMPLER AND SAFER THAN FIXED WIRING
- ▶ DESIGNED TO WITHSTAND HIGH OVERLOADS

When a motor starts, the short-time overload generated is many times greater than the nominal current. While this overload should not affect properly designed motors, it could be damaging to most connectors.

Thanks to its silver-nickel butt-contact technology, the decontactor withstands these high and repeated overloads without over-heating or change in its performance. The decontactor is thus ideally suited for motor connections, even for motors that have to start frequently.



MARECHAL® decontactors allow you to connect and disconnect motors safely. Locking devices (optional) prevent the unintended supply of a device under maintenance.



■ TECHNICAL FEATURES

7 contacts plugs and sockets to supply star-delta motors with integral load-break switching capability.

	DN9C	DS7C3
I_{max} per phase	30 A	50 A
U_{max}	415 V	500 V
AC-22 switching capability	30 A / 415 V	50 A / 500 V
Same dimensions as	DN1	DS6
Auxiliary contacts (max.)	2	3
Keying positions ⁽¹⁾	2	5
Ambient temperature	-40 °C to +60 °C for all	
Wiring (terminals)	screw-type	

⁽¹⁾ To distinguish between different power supplies and applications

■ STANDARDS ASPECTS

7 pole decontactors and connectors comply with:

- 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).

TYPICAL CONFIGURATION

WALL MOUNTING SOCKET DS7c3

PLUG DS7c3

Wall box metal 30°
396A653

Socket-outlet
3934561

Straight handle poly
316A013

Inlet
3938561

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 - 10 mm ²
IP protection lid closed	IP55	Solid or stranded wiring (min-max)	2,5 - 16 mm ²
IP protection connected plug	IP54	Wiring (terminals)	screw-type
Shock resistance (poly casing)	IK08	Keying positions	5
Shock resistance (metal casing)	IK09		

LOAD-BREAK CAPABILITY OF THE DECONTACTOR™

Comply with IEC EN 60309-1 standard	50 A / 500 V
Load-break capability according to IEC EN 60947-3 / AC-22	50 A / 500 V

U _{max} (V) / I _{max} (A)	Polarity	Part no.*	Part no.*
500 / 50	6P+E	3934561	3938561
500 / 50	6P+E+3 aux.	3934561972	3938561972

* The listed Part nos. call up metal casings. For a GRP casing, replace prefix 39 with 31



ACCESSOIRES/ACCESSORIES

BOÎTIERS/ BOXES



PN7c
PN12c
Size 1

DSN24c
Size 2

DN9c
DSN37c
Size 3

DS7c3
Size 4

DN20c
Size 5



BOÎTIER POLY/POLY BOX



30°	M20	511B3M20	512B3M20			
30°	M25	511B3M25	512B3M25	513B3M25		
30°	M32			513B3M32	514B3M32	
30°	M40				514B3M40	

BOÎTIER MÉTAL (+ FIL DE TERRE)/METAL BOX (WITH EARTH LEAKAGE)



20°	M20		592B2M20	593B2M20		Réf. +EMC
20°	M25		592B2M25	593B2M25	594B2M25	Réf. +EMC
20°	M32			593B2M32	594B2M32	595B2M32 Réf. +EMC
20°	M40				594B2M40	595B2M40

BOÎTIER POLY + MANCHON POLY/POLY BOX + POLY SLEEVE



70°	Non percé/ Without Hole	511C7000	512C7000	513C7000	514C7000	
70°	Ø 20	511C7M20	512C7M20			
70°	Ø 25	511C7M25	512C7M25	513C7M25		
70°	Ø 32	511C7M32	512C7M32	513C7M32	514C7M32	
70°	Ø 40		512C7M40	513C7M40	514C7M40	

BOÎTIER MÉTAL (+ FIL DE TERRE) + MANCHON POLY/METAL BOX + POLY SLEEVE



30°	M20	511C3M20	512C3M20	513C3M20		
30°	M25		512C3M25	513C3M25	514C3M25	
30°	M32		512C3M32	513C3M32	514C3M32	515C3M32
30°	M40		512C3M40	513C3M40	514C3M40	515C3M40
30°	M50				514C3M50	515C3M50
30°	M63					515C3M63

BOÎTIER MÉTAL (+ FIL DE TERRE) + MANCHON MÉTAL/METAL BOXES WITH METAL SLEEVE (+ EARTH WIRE) (+ EARTH WIRE)



30°	M20		592C3M20	593C3M20		Réf. +EMC
30°	M25		592C3M25	593C3M25	594C3M25	Réf. +EMC
30°	M32		592C3M32	593C3M32	594C3M32	595C3M32 Réf. +EMC
30°	M40			593C3M40	594C3M40	595C3M40 Réf. +EMC
30°	M50				594C3M50	595C3M50
30°	M63					595C3M63







0°	M20		592C0M20	593C0M20		Réf. +EMC
0°	M25		592C0M25	593C0M25	594C0M25	Réf. +EMC
0°	M32		592C0M32	593C0M32	594C0M32	595C0M32 Réf. +EMC
0°	M40			593C0M40	594C0M40	595C0M40 Réf. +EMC
0°	M50				594C0M50	595C0M50
0°	M63					595C0M63



45°	M20	591C4M20				
45°	M25	591C4M25				
45°	M32	591C4M32				



70°	M20			593C7M20		Réf. +EMC
70°	M25			593C7M25	594C7M25	Réf. +EMC
70°	M32			593C7M32	594C7M32	595C7M32 Réf. +EMC
70°	M40			593C7M40	594C7M40	595C7M40 Réf. +EMC
70°	M50				594C7M50	595C7M50
70°	M63					595C7M63

BOÎTIERS/ BOXES			PN7C PN12C Size 1	DSN24C Size 2	DN9C DSN37C Size 3	DS7c3 Size 4	DN20c Size 5
BOÎTIER MÉTAL (+ FIL DE TERRE) + MANCHON MÉTAL/METAL BOXES WITH METAL SLEEVE (+ EARTH WIRE)							
	0°	M50					595E0M50
	30°	M50					595E3M50
	30°	M63					595E3M63
	70°	M50					595E7M50
	70°	M63					595E7M63

MANCHONS/ SLEEVE		PN7C PN12C Size 1	DSN24C Size 2	DN9C DSN37C Size 3	DS7c3 Size 4	DN20c Size 5	
MANCHON POLY/POLY SLEEVE							
	30°	511M3	512M3	513M3	514M3	515M3	
	30°	551M3	552M3	553M3	554M3	555M3	
	70°	511M7	512M7	513M7	514M7		
	70°	551M7	552M7	553M7	554M7		
MANCHON MÉTAL/METAL SLEEVE							
	0°	591M0	592M0	593M0	594M0	595M0	Réf. +EMC
	30°	591M3	592M3	593M3	594M3	595M3	Réf. +EMC
	30°	5K1M3	5K2M3	5K3M3	5K4M3	5K5M3	
	45°	591M4					
	70°			593M7	594M7	595M7	Réf. +EMC



ACCESSOIRES/ACCESSORIES

POIGNÉES/
HANDLE



PN7c
PN12c
Size 1

DSN24c
Size 2





DN9c
DSN37c
Size 3

DS7c3
Size 4


DN20c
Size 5




POIGNÉE POLY AVEC PE INTEGRÉ/POLY HANDLE WITH INTEGRATE GLAND

	0°	9-18 mm	511P0D18					
	0°	5-21 mm	511P0D21	512P0D21				
	0°	10-30 mm			513P0D30			
	0°	13-35 mm				514P0D35		
	0°	9-18 mm	551P0D18					
	0°	5-21 mm		552P0D21				
	0°	10-30 mm			553P0D30			
	0°	13-35 mm				554P0D35		
	60°	9-18 mm	511P6D18					
	60°	9-18 mm	551P6D18					


POIGNÉE ESLATOMERE AVEC PE INTEGRÉ/ELASTOMER HANDLE WITH INTEGRATE GLAND

	0°	18-25 mm				555P0D25		
	0°	25-35 mm				555P0D35		
	0°	35-45 mm				555P0D45		
	0°	45-49 mm				555P0D49		



POIGNÉE POLY + PE POLY VISSÉ/POLY HANDLE WITH POLY CABLE GLAND







	0°	5-12 mm	511P020P	512P020P				Réf. +443
	0°	9-18 mm	511P025P	512P025P	513P025P			Réf. +443
	0°	14-25 mm	511P032P	512P032P	513P032P	514P032P	515P032P	Réf. +443
	0°	18-32 mm		512P040P	513P040P	514P040P	515P040P	Réf. +443
	0°	24-38 mm				514P050P	515P050P	Réf. +443
	0°	35-48 mm					515P063P	Réf. +443

POIGNÉE POLY + PE MÉTAL VISSÉ/POLY HANDLE WITH METAL GLAND

	0°	7-13 mm	511P020M	512P020M				
	0°	9-16 mm	511P025M	512P025M				
	0°	11-21 mm	511P032M	512P032M	513P032M			
	0°	19-28 mm			513P040M	514P040M		
	0°	27-35 mm				514P050M		
	0°	35-48 mm					515P063M	
	0°	48-65 mm						

POIGNÉE MÉTAL + PE MÉTAL VISSÉ/METAL HANDLE WITH METAL GLAND

	0°	7-13 mm	591P020M	592P020M	593P020M			Réf. +EMC
	0°	8-16 mm	591P025M	592P025M	593P025M	594P025M		Réf. +EMC
	0°	15-23 mm	591P032M	592P032M	593P032M	594P032M	595P032M	Réf. +EMC
	0°	21-34 mm			593P040M	594P040M	595P040M	Réf. +EMC
	0°	22-35 mm				594P050M	595P050M	
	0°	35-48 mm					595P063M	
	0°	7-13 mm	571P020M	572P020M				
	0°	8-16 mm	571P025M	572P025M	573P025M	574P025M		Réf. +EMC
	0°	15-23 mm	571P032M	572P032M	573P032M	574P032M		Réf. +EMC

POIGNÉES/ HANDLE			PN7C PN12C Size 1	DSN24C Size 2	DN9C DSN37C Size 3	DS7C3 Size 4	DN20C Size 5		
POIGNÉE POLY TARAUDÉE (PE NON FOURNI)/POLY HANDLE WITHOUT CABLE GLAND (METRIC THREAD ENTRY)									
	0°		M20	511P0M20	512P0M20	513P0M20			Réf. +443
	0°		M25	511P0M25	512P0M25	513P0M25			Réf. +443
	0°		M32	511P0M32	512P0M32	513P0M32	514P0M32		Réf. +443
	0°		M40		512P0M40	513P0M40	514P0M40		Réf. +443
	0°		M50				514P0M50	515P0M50	Réf. +443
	0°		M63					515P0M63	Réf. +443
POIGNÉE MÉTAL TARAUDÉE (PE NON FOURNI)/METAL HANDLE WITHOUT CABLE GLAND (METRIC THREAD ENTRY)									
	0°		M20	591P0M20	592P0M20	593P0M20			Réf. +EMC
	0°		M25	591P0M25	592P0M25	593P0M25	594P0M25		Réf. +EMC
	0°		M32	591P0M32	592P0M32	593P0M32	594P0M32	595P0M32	Réf. +EMC
	0°		M40			593P0M40	594P0M40	595P0M40	Réf. +EMC
	0°		M50				594P0M50	595P0M50	
	0°		M63					595P0M63	

LÉGENDES DES OPTIONS D'ACCESSOIRES/LEGEND



Inclinaison/Angle



Taraudage ou serrage sur diamètre de câble/Threading



Option EMC/EMC option



HT 240° C



Éjection/ejection

INFOS +