

General technical characteristics and applications



- · Metal boxes for installation, circuit breaking, connection and control of electric and electronic equipments.
- · For industries, automotive, railways, navy, tunnels, parkings, industrial buildings
- The boxes are in conformance with IEC 60670, CEI 23-48, EN 62208, EN 60529, EN 50102 stands. Besides the ATEX versions are in comformance with IEC 60079-0, IEC 60079-15, EN 50281-1-1.
- · High mechanical strength and vibration resistance.
- · Anti-ageing materials, water resistant, oil resistant, grease resistant and fuel resistant.
- The boxes can be mounted by using external flanges or internally through holes.
- Inside the boxes the Din rail or the metal plate, supplied as accessory, can be assembled for mounting terminal blocks, breakers, fuse holders, control devices, transformers, electronics circuits, connectors, etc.
- · Three series are available:
 - 1- Standard with epoxy powder coating grey RAL 9006
 - 2- Standblasted without coating
 - 3- With epoxy powder coating RAL 7037 for ATEX version
- · 8 sizes are available:

from 90 x 90 x 53 mm, size 1 (S1) to 392 x 298 x 144 mm, size 7 (S7)

Size S3 with high cap (HC) Recommended for the use with rotary power switches (S3-HC)

- Degree of protection according to EN 60529: IP66 (size 1 ÷ 6) IP55 (size 7)
- ATEX versions are in conformance with European Directive 94/9/CE and to the standards:

IEC 60070-0: Electrical apparatus for explosive gas atmospheres. Part 0 (General requirements)

IEC 60070-15: Electrical apparatus for explosive gas atmospheres. Construction, test and marking

EN 50291-1-1: Electrical apparatus in the presence of combustible dust. Part. 1-1 (Electrical apparatus protected by enclosures - Construction and testing)

- Working temperature: -40 ÷ +125 C°
- Working temperature in accordance with ATEX: -20 ÷ +85 C°
- With ground terminal on box and on cover by using trilobate screw for better ground contacts and low electrical resistance
- Materials

Metal body and cover: Die-cast aluminium alloy

Coating: Epoxy-polyester powder coating in anti-ageing, oil resistant and

fuel resistant vinyl nitrile elastomer

Gaskets: Steel with Dacromet® treatment to prevent corrosion especially

with aluminium parts

Scews: Steel zinc plated for screws used internally

Metal plates: Steel zinc plated

Technical characteristics and applications of ATEX versions Marking:

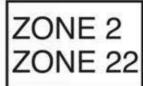
ATEX VERSION

EX NA - 20°C<TA+85°C U / EX TD A -20°C<TA<+85°C U IP66









Junction box in accordance with European Directive 94/9/CE

Making data classification

Ex

Product for use ub explosive atmospheres.

II

Group II product - only for areas different from mines and therefore with a normal safety level.

3GD

Product for areas containing gas (G) and dust (D) with normal risk of explosion.

In particular, the product can only be installed:

- a) in zone 2 (where is improbable that an explosive athmosphere of air and flammable substances will form during normal working activity).
- b) in zone 22 (where is improbable that an explosive athmosphere of dust will form, and if so, it will be short-lasting).

Ta

Permitted ambient temperature field: -20°C ÷ +85°C

IP66 / IP65

The lighting fixture's protection level against the ingress of solids and liquids.

nA

The components supplied by MAXIMUS are classified as type nA by standard EN 60079-15 so they can only house components of non-sparking type.

U

The junction boxes are components for purposes of Directive 94/9/EEC so the finished product must be certified by the end manufacturer.

GENERAL INSTRUCTIONS

- a) The plant engineer/client is responsible for classifying areas where hazardous atmospheres can form in order to choose the right product.
- b) The component supplied by MAXIMUS are only suitable in zone 2

(GAS) and 22 (DUST)

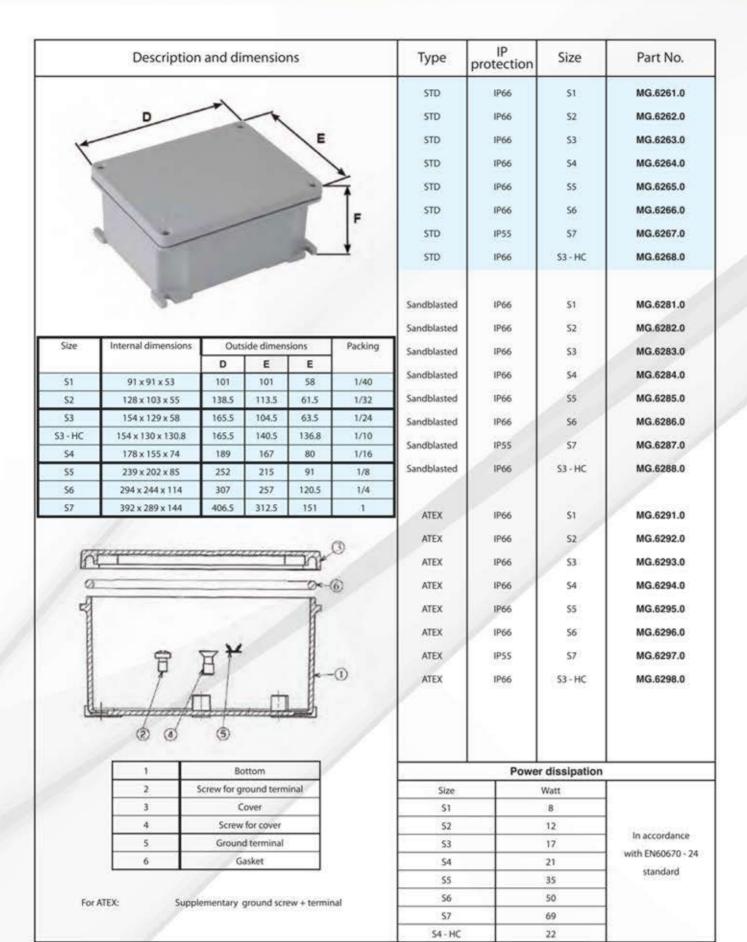
- c)The components must be installed in a throughly workmanlike way following the manufacturer's instructions.
- d) Make the internal and supplementary external earth connections in correspondance with the earth symbol.
- e) The components supplied by MAXIMUS are classified as type nA as per standard EN 60079-15, so they can only contain non sparking components.
- f) The junction boxes are components within the meaning of directive 94/9/EEC so finished products must be certificate by the end manufacturer.
- g) Use only ATEX certified cable clamps with appropriate level of protection and suitable for being installed in zones classified as 2 (GAS) and 22 (DUST).
- h) The number and the size of the hole are limited by the ATEX standard.

Please see the table on Page 119



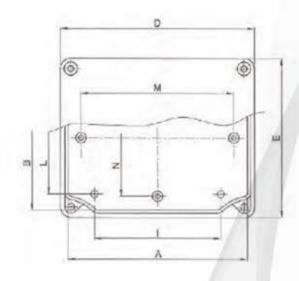
ALUPAACK

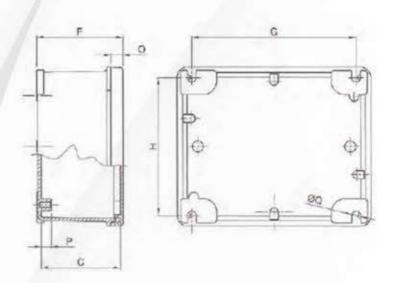
ALUMINIUM METAL BOXES - IP66



ALUPAACK ALUMINIUM METAL BOXES - IP66

DIMENSIONS



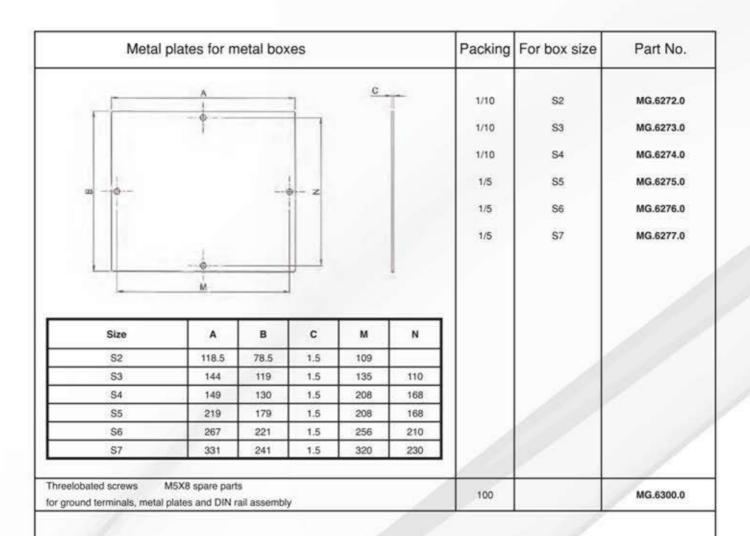


Size	Α	В	С	D	E	F	G	н	- 1	L	M	N	0	Р	Q
S1	91	91	54	101	101	58	86	86	52.5	42.5			8.3	7.5	6.1
S2	128	103	57	138.5	113.5	61.5	117.5	101	60	50	109		8.5	7.3	6.1
S3	155	130	58	165.5	140.5	63.5	144	125	104.5	102	135	110	8.6	7.2	6.1
S4	178	156	75	189	167	80	168	150	117	129.5	140	120	8.7	7.1	6.1
S5	239	202	85	252	215	91	221	196	178	164	208	168	9	8.7	8.7
S6	294	244	114	307	257	120.5	275	236	208	193.5	258	210	9.2	8.5	8.7
S7	392	298	144	406.5	312.5	151	367	283	290	237	320	230	9.6	8.5	8.7
S3-HL	155	130	58	165.5	140.5	136.8	144	125	104.5	102	135	110	81.9	7.2	6.1

Drilling in conformity with ATEX requirements											
Boxes Part No.	Size		Long	side			Max no. of				
		Dia	M Metric	Pg	No. of drilling	Dia	M Metric	Pg	No. of drilling	drilling pe	
MG.6291.0	S1	16	16		- 1	16	16		- 1	4	
MG.0291.0	31	23		16		23		16			
MG.6292.0	S2	25	25		-1	25	25		1	4	
MG.6292.0		29		21		29		21			
MG.6293.0	\$3	25	25		2	25	25		1	6	
MG.6293.0		29		21		29		21			
MG.6294.0	S4	32	32		2	32	32		2	8	
MG.6294.0	34	37		29		37		29			
MC COOF O	S5	40	40		2	40	40		2	8	
MG.6295.0		48		36		48		36			
MC 0000 0	00	50	50		2	50	50		2	8	
MG.6296.0	S6	54		42		54		42			
140 0007.0	S7	50	50		3	50	50		2	10	
MG.6297.0	5/	54		42		54		42			

Important note: We can supply the enclosures drilled with or without cable glands and fittings in accordance with customer requirements

ALUPAACK ALUMINIUM METAL BOXES - IP66





Size: S5