





The branch boxes of the SA ... P series are made of fiberglass reinforced polyester; very resistant to contamination by combustible oils and shocks. They are light and practical, they can be installed in all industrial installations in zones 1,2, 21, 22, in particular those presenting a potential risk of explosion or fire because of the presence of combustible gases or dusts. Envelopes are drilled with holes for easy wall mounting; the lid has a silicone seal resistant to low and high temperatures it comes with stainless steel screws, to ensure a seal IP66 type. The SA ... P series enclosures are used as junction boxes to carry analogue or digital signal cables or for control and monitoring, associated with equipment such as motors, fans, pumps or for reading readings such as flow rate, level, pressure, temperature, current, etc. The terminal blocks can be arranged inside the housing in different configurations.

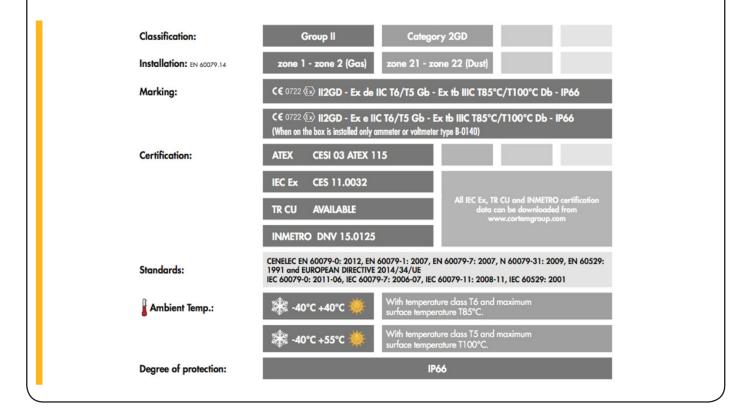
AMBIENT TEMPERATUR	<u>E RANGE :</u>		
AMBIENT TEMPERATURE	TEMPERATURE CLASS	MAXIMUM SURFACE TEMPERATURE	MAXIMUM TERMINAL OPERATING TEMPERATURE
-40°C +40°C	T6	T75°C	+80°C
-40°C +55°C	T5	T75°C	+95°C
IGH TEMPERATURE RA			

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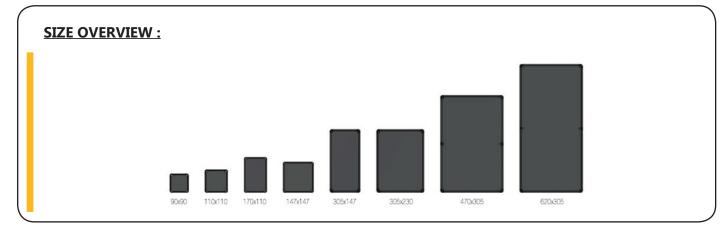
#### **CERTIFICATION DATA FOR BOXES WITH TERMINALS :** Classification: Group II Category 2GD Installation: EN 60079.14 zone 1 - zone 2 (Gas) zone 21 - zone 22 (Dust) Marking: CE 0722 🐼 II 2GD Ex eb IIC T6/T5/T4 Gb - Ex tb IIIC T75°C/T110°C Db IP66 CE 0722 🐼 II 2GD Ex e ia IIC T6/T5/T4 Gb - Ex ia IIIC T75°C/T110°C Db IP66 CE 0722 🐼 II 2GD Ex eb ia IIC T6/T5/T4 Gb - Ex tb ia IIIC T75°C/T110°C Db IP66 Certification: ATEX **CESI 03 ATEX 333** IEC Ex CES 13.0001 All IEC Ex, TR CU and INMETRO certificat data can be downloaded from www.cortemgroup.com TR CU AVAILABLE INMETRO DNV 15.0119 CENELEC EN 60079-0: 2012+A11:2013, EN 60079-7: 2015, EN 60079-11: 2012, EN 60079-31: 2014 ed alla DIRETTIVA EUROPEA 2014/34/UE Standards: IEC 60079-0: 2011, IEC 60079-7: 2015, IEC 60079-11: 2011, IEC 60079-31: 2013 Ambient Temp.: See "ambient temperature range" table IP66 Degree of protection:

### **ENVELOPE CERTIFICATION DATA FOR CONTROL, MONITORING AND SIGNALING UNITS :**



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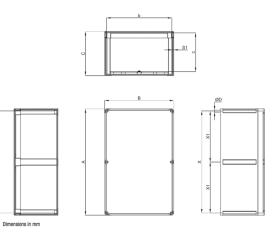




## **ENCLOSURE SELECTION BOARD :**

Code	Outside dimensions			li li	Inside dimensions					Mounting				
	A	В	C	а	b	C	S1	X	Y	X1	ØD	kg		
SA090907/P	90	90	73	84	84	52	3	74	74	-	6.5	0.30		
SA111108/P	110	110	83	104	104	65	3	94	94	-	6.5	0.40		
SA171108/P	170	110	83	164	104	65	3	154	94		6.5	0.80		
SA141410/P	147	147	100	135	135	79	3	131	131	-	6.5	1.00		
SA301410/P	305	147	110	296	138	90	4.5	285	127	-	6.5	1.90		
SA302310/P	305	230	110	296	221	90	4.5	285	210	-	6.5	2.50		
SA302318/P	305	230	190	296	221	165	4.5	285	210	-	6.5	3.10		
SA473018/P	470	305	195	460	295	175	5	450	285	225	6.5	4.70		
SA623018/P	620	305	185	608	293	160	5	560	285	260-300	8	6.30		









plants





temperatures

plants



Fuel

depots





Ships and Wastewate shipbuilding treatment



#### **THREAD COMPARAISON CHART :**

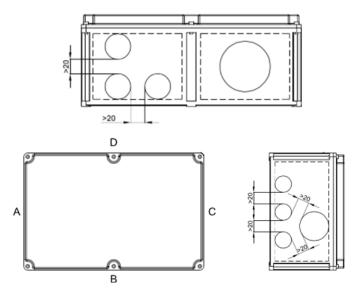
D Thread diameter	1	2	3	4	5	6	7	8
ISO 261/965	20x1.5	25x1.5	32x1.5	40x1.5	50x1.5	63x1.5	75x1.5	85x2
Through hole	Ø20.5	Ø25.5	Ø32.5	Ø40.5	Ø50.5	Ø63.5	Ø75.5	Ø85.5

In accordance with the current standard, holes may be drilled by Cortem or by authorized partners holding a production notification in accordance with the ATEX Directive.

### DRILLING HOLES IN THE BODY :

							HO	LE DI	RILLII	NG IN BOI	Y							
TYPE OF			Sid	les A	and (	;					Sides B and D							
ENCLOSURE	Drilling	MA	XIMU	IMUM QUANTITY PER HOLE TYPE						Drilling	MA	KIMU	M QU	ANTI	TY PI	ER HO	DLE T	YPE
	area mm	1	2	3	4	5	6	7	8	area mm	1	2	3	4	5	6	7	8
SA090907/P	48x45	1	1	-	-	-	-	-	-	48x45	Square box							
SA111108/P	58x55	2	2	1	1	1	-	-	-	58x55	Square box							
SA171108/P	68x55	2	2	1	1	1	-	-	-	128x55	5	3	2	2	2	-	-	-
SA141410/P	100x65	6	3	2	1	1	1	-	-	100x65	Square box							
SA301410/P	100x65	6	3	2	1	1	1	-	-	255x65	12	11	5	4	4	3	-	-
SA302310/P	180x65	8	7	5	3	2	2	-	-	260x65	12	11	5	4	4	3	-	-
SA302318/P	180x140	16	14	9	8	5	4	2	2	258x140	24	22	14	11	8	6	3	2
SA473018/P	258x140	24	18	14	8	8	6	3	2	380x140	36	24	18	12	12	8	6	2
SA623018/P	248x117	18	15	10	8	6	3	2	2	434x117	32	26	16	14	12	6	4	4

All enclosures can be equipped with accessories of your choice and mounted on special rails attached to the internal mounting frames of the housing. The terminal blocks can be arranged in different ways, according to the customer's specifications and always within the limits allowed by the certificate. The options are vertical, horizontal, on a number of rows or on different levels using appropriate spacers.





#### **ELECTRICAL SPECIFICATIONS :**

		Signal circuits applications							
	Standard applications	T6/T75 max. Tamb		T4/T100°C max. Tamb +85°C					
Rated voltage:	1000 Vac/dc	-		-					
Rated current:	312 A	1 A for exec 100 mA for e		10 A for exec. <b>Ex eb</b> 100 mA for exec. <b>Ex ic</b>					
Rated frequency:	50/60 Hz	-		•					
Terminal section:	1.5 ÷ 300 mm <sup>2</sup>	-							
Marking		Terminal type		Description					
Ex II 2GD Ex eb IIC T.	Gb - Ex tb IIIC T Db IP66	Ex e terminals only		ontaining an increase in ninals to EN 60079-7					
Ex II 2GD Ex ia IIC T.	Ex II 2GD Ex ia IIC T Gb - Ex ia IIIC T Db IP66 Ex II 2GD Ex eb ia IIC T Gb - Ex tb ia IIIC T Db IP66			ontaining an increase nd intrinsically safe safe enclosures. cording to EN 60079-11. s are still category 2					
Ex II 2GD Ex eb ia IIC									

#### **MAXIMUM NUMBER OF TERMINAL BOXES :**

ту	PE OF	MAXIMUM NUMBER OF TERMINALS HOUSED										
	LOSURE		TERMINAL CROSS-SECTIONAL AREA									
		1.5	2.5	4	6	10	16	25				
SAO	90907/P	9	7	6	5							
SA1	11108/P	13	10	8	7	5						
SA1	71108/P	27	21	17	14	11	9					
SA1	41410/P	22	16	14	11	9	7					
SA3	01410/P	57	44	37	30	24	20	15				
SA3	02310/P	2x58	2x44	2x37	2x30	2x24	2x20	2x15				
SA3	02318/P	2x58	2x44	2x37	2x30	2x24	2x20	2x15				
SA4	73018/P	2x97	2x74	2x63	2x51	2x41	2x34	2x25				
SA6	23018/P	2x133	2x101	2x86	2x70	2x56	2x46	2x35				

Nominal X-sect. area (mm <sup>2</sup> )	Current (A)	Quantity	Capacity
2,5	8	16 (di 46)	34,8%
4	11	12 (di 36)	33,3%
10	26	4 (di 13)	30,8%
		Totale	98,9% <100%

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