





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.

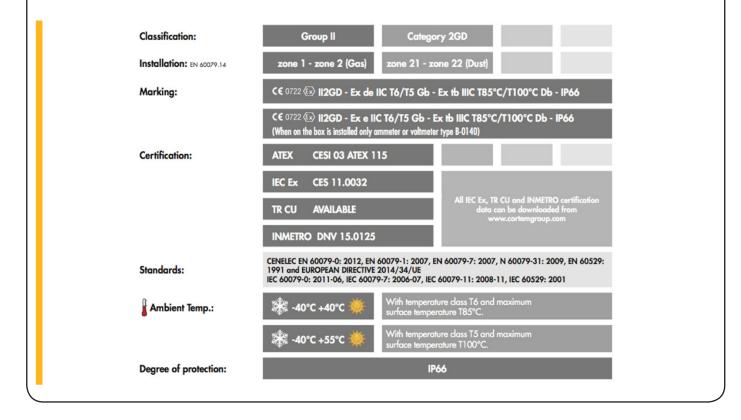
| AMBIENT TEMPERATUR | <u>E RANGE :</u> | | |
|---------------------|-------------------|--------------------------------|-------------------------------------------|
| AMBIENT TEMPERATURE | TEMPERATURE CLASS | MAXIMUM SURFACE TEMPERATURE | MAXIMUM TERMINAL OPERATING TEMPERATURE |
| -40°C +40°C | T6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

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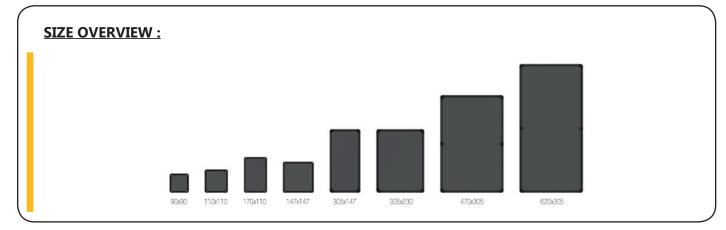
CERTIFICATION DATA FOR BOXES WITH TERMINALS : Classification: Group II Category 2GD Installation: EN 60079.14 zone 1 - zone 2 (Gas) zone 21 - zone 22 (Dust) Marking: CE 0722 🐼 II 2GD Ex eb IIC T6/T5/T4 Gb - Ex tb IIIC T75°C/T110°C Db IP66 CE 0722 🐼 II 2GD Ex e ia IIC T6/T5/T4 Gb - Ex ia IIIC T75°C/T110°C 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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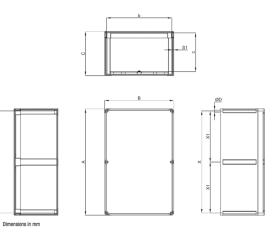




ENCLOSURE SELECTION BOARD :

| 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 :

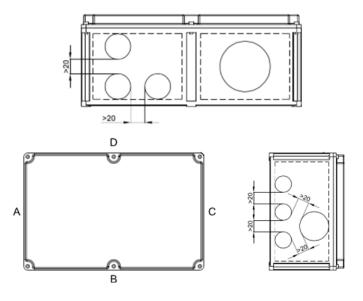
| D Thread diameter | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| ISO 261/965 | 20x1.5 | 25x1.5 | 32x1.5 | 40x1.5 | 50x1.5 | 63x1.5 | 75x1.5 | 85x2 |
| Through hole | Ø20.5 | Ø25.5 | Ø32.5 | Ø40.5 | Ø50.5 | Ø63.5 | 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. Ex eb 100 mA for exec. Ex ic | | | | | |
| Rated frequency: | 50/60 Hz | - | | • | | | | | |
| Terminal section: | 1.5 ÷ 300 mm ² | - | | | | | | | |
| 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 ²) | 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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