



ATEX ENCLOSURES : SERIES S, SF, SSC WITH TERMINALS

TECHNICAL CHARACTERISTICS:

Body and lid: Aluminium alloy with low copper content. Screw cap with safety screw

Seal: Acid and hydrocarbon resistant silicone, located between the body and the lid

Inputs: Thread GAS UNI ISO 7/1

Certification label: Adhesive label on the lid for 6 and 9

boxes; on the body for size 4

Bolts and screws: Stainless steel

Earth screw: Stainless steel. Inside and outside the com-

plete body



CHART 1			
	Ex d IIC rated	terminal strips	
Ambient temperature	Temperature of terminal operation	Temperature class	Maximum surface temperature
-20°C +40°C -40°C +40°C	≥80°C	Т6	T85°C
-20°C +65°C -40°C +65°C	≥100°C	Т5	T100°C
-20°C +150°C -40°C +150°C	≥180°C	Т3	T200°C







APPLICATION SECTORS:

















Oil refineries Chemical and petrochemical plants

Onshore plants

Offshore plants

Oil loading/ offloading wharfs

depots

temperatures

Cortem product

CHART 2

CHART 2			
Ex e II	or Ex i IIC rated termina	l strips (ATEX-certified ter	minals)
Ambient temperature	Temperature of terminal operation	Temperature class	Maximum surface tempe- rature
-20°C +40°C -40°C +40°C	≥80°C	T6	T85°C
-20°C +65°C -40°C +65°C	≥100°C	T5	T100°C
-20°C +80°C -40°C +80°C	≥130°C	T4	T135°C

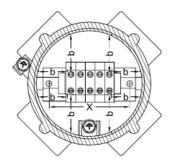
Ex d IIC	rated enclosu	ires	Z	ONE TRA	NSVERS	SALE ET	NOMBR	E MAXIN	IUM DE	TERMIN	AUX
Enclosure type	Siz	e	1.5	2.5	4	6	10	16	25	35	70
S.1 - SB	14-	24		-	3	-	-	-	-	-	-
S.1 - SB	16-26	6-36	8	8	6	-	-	-	-	-	-
S.1	29-39-	59-69	16	16	16	9	7	6	4	4	3
SB	49-59	9-69	16	16	12	10	8	7	5	5	4
Manual		at 40°C	10	12.5	20	24	30	48	75	105	175
Maximum ci	Maximum current (A) — a a		8	10.5	16	20	24	40	65	88	150
	n current den terminals and		6.6	5	5	4	3	3	3	3	2.5
Maximum cu		at 40°C	13	19.5	24	30	50	64	100	140	210
number of te given in th		at 65°C at 150°C	10	12.5	20	24	30	48	75	105	175
Maximum current density (A/mm²) for terminals and cables referring to 35% of the max. number of terminals as given in the table			8.5	7	6	5	5	4	4	4	3
Minmax	Minmax. rated voltage (V)						420 - 750)			

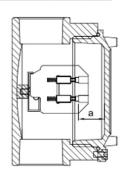




MINIMUM DISTANCES FOR APPROVED HOUSINGS Ex d IIC WITH TERMINALS:

Enclosure	Size	Minimum sur	S.1	SB	
type	Size	a min.	b+b min.	X	X
S.1 - SB	14-24			40	40
S.1 - SB	16-26-36	6		58.5	50
S.1	29-39-59-69		20	100	0.5
SB	49-59-69			100	85





Ex e IIC r	rated enclos	sures		CR	OSS-	SECTI	ONAL	AREA	AND	MAXI	MUM	NUML	BER O	F TER	MINA	LS	
Enclosure	Si	70		1.5			2.5			4			6			10	
type	31	ze	Tab 1	Tab 2	Tab 3	Tab 1	Tab 2	Tab 3	Tab 1	Tab 2	Tab 3	Tab 1	Tab 2	Tab 3	Tab 1	Tab 2	Tab 3
S.1 - SB	14-	14-24		-	-	-	-	-	3	-	-	-	-	-	-	-	-
S.1 - SB	16-2	6-36	8	8	8	8	8	8	6	6	6	-	-	-	-	-	-
S.1	29-39-	-59-69	16	16	16	16	16	16	16	14	14	9	9	9	7	7	7
SB	49-59-69		16	16	16	16	16	16	16	14	14	10	10	9	8	7	7
Maximum a	urrent (A)	at 40°C		8			10.5			17			20			24	
Maximum cu	irrent (A)	at 65°C at 150°C		5.5			7.5		12			14			17		
	Maximum current density (A/mm²) for terminals and cables			6.6					5			4				3	
Minmax.	Minmax. rated voltage (V)								27	75 - 6 3	80						

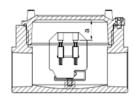
Ex e IIC	rated enclo	sures	CROSS-SECTIONAL AREA AND MAXIMUM NUMBER OF TERMINALS						
Enclosure	9	ze		16		25			
type	0	26	Tab 1	Tab 2	Tab 3	Tab 1	Tab 2	Tab 3	
S.1 - SB	14	-24	-	-	-	-	-	-	
S.1 - SB	16-2	6-36	-	-	-	-	-	-	
S.1	29-39	-59-69	6	6	6	4	4	4	
SB	49-5	9-69	7	6	6	5	4	4	
Maximum au	urront (A)	at 40°C	40 65						
Maximum cu	ireiii (A)	at 65°C at 150°C		29			47		
Maximur (A/mm²) for	3 3								
Minmax	275 - 630								

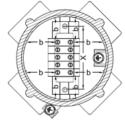






MINIMUM DISTANCES FOR APPROVED HOUSINGS Ex d IIC WITH TERMINALS:





NOTES: Tab 1 for operating voltage U \leq Tab 2 for operating voltage U \leq Tab 3 for operating voltage U \leq

Minimum distances for Ex e IIC rated enclosures with terminals

	Enclosure	01	Minimum sur	face distance	S.1	SB
	type	Size	a min.	b+b min.	x	X
12	S.1 - SB	14-24			40	40
Tab	S.1 - SB	16-26-36		00	58.5	50
	S.1	29-39-59-69	6	20	100	0.5
	SB	49-59-69			100	85

	Enclosure	Size	Minimum sur	Minimum surface distance				
	type	Size	a min.	b+b min.	X	X		
b 2	S.1 - SB	14-24			40	40		
Tab	S.1 - SB	16-26-36		05	58.5	50		
	S.1	29-39-59-69	8	25	100	0.5		
	SB	49-59-69]		100	85		

	Enclosure	Size	Minimum sur	S.1	SB	
	type	Size	a min.	b+b min.	x	x
b 3	S.1 - SB	14-24	10		40	40
Tab	S.1 - SB	16-26-36		20	58.5	50
	S.1	29-39-59-69		32	100	85
	SR	49-59-69	1		100	00

Ex e IIC r	ated enclos	sures		CR	oss-	SECTI	ONAL	AREA	AND	MAXI	мим	NUME	BER O	F TER	MINA	LS	
Enclosure	ę,	70		1.5			2.5			4		6				10	
type	type		Tab 1	Tab 2	Tab 3	Tab 1	Tab 2	Tab 3	Tab 1	Tab 2	Tab 3	Tab 1	Tab 2	Tab 3	Tab 1	Tab 2	Tab 3
S.1 - SB	14-24		-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
S.1 - SB	16-2	6-36	8	8	8	8	8	8	6	6	6	-	-	-	-	-	-
S.1	1 29-39-59-69		16	16	16	16	16	16	16	14	14	9	9	9	7	7	7
SB	SB 49-59-69		16	16	16	16	16	16	16	14	14	10	10	9	8	7	7
Mandania		at 40°C		8			10.5			17			20			24	
Maximum cu	irrent (A)	at 65°C at 150°C		5.5			7.5		12		14		17				
	Maximum current density (A/mm²) for terminals and cables		6.6				5		5			4			3		
Minmax.	Minmax. rated voltage (V)			275 - 630													

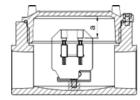
Ex e IIC	rated enclo	sures	CROSS-SECTIONAL AREA AND MAXIMUM NUMBER OF TERMINALS							
Enclosure	9	ize		16			25			
type	0	126	Tab 1	Tab 2	Tab 3	Tab 1	Tab 2	Tab 3		
S.1 - SB	14	-24	-	-	-	-	-	-		
S.1 - SB	16-2	26-36	-	-	-	-	-	-		
S.1	29-39	-59-69	6	6	6	4	4	4		
SB	49-5	7	6	6	5	4	4			
Maximum au	erront (A)	at 40°C	40 65							
Maximum cu	irrent (A)	at 65°C at 150°C		29			47			
Maximun (A/mm²) for	3 3			3						
Minmax.	275 - 630									

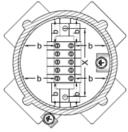






MINIMUM DISTANCES FOR APPROVED HOUSINGS Ex d IIC WITH TERMINALS:





NOTES:

Tab 1 for operating voltage U ≤ 400
Tab 2 for operating voltage U ≤ 500
Tab 3 for operating voltage U ≤ 630

Minimum distances for Ex e IIC rated enclosures with terminals

	Enclosure	0:	Minimum sur	face distance	S.1	SB
	type	Size	a min.	b+b min.	X	X
12	S.1 - SB	14-24			40	40
멸	S.1 - SB	16-26-36		00	58.5	50
	S.1	29-39-59-69	6	20	100	0.5
	SB	49-59-69]		100	85

Tab 2	Enclosure type	Size	Minimum surface distance		S.1	SB
			a min.	b+b min.	X	X
	S.1 - SB	14-24	8	25	40	40
	S.1 - SB	16-26-36			58.5	50
	S.1	29-39-59-69			100	0.5
	SB	49-59-69			100	85

Tab 3	Enclosure type	Size	Minimum surface distance		S.1	SB
			a min.	b+b min.	X	X
	S.1 - SB	14-24	10	32	40	40
	S.1 - SB	16-26-36			58.5	50
	S.1	29-39-59-69			100	85
	SB	49-59-69				

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:

C€ 0722 II 2 GD - Ex d IIC T... Gb - Ex tb IIIC T... Db - IP66/67

C€ 0722 (II 2 GD - Ex e IIC T... Gb - Ex tb IIIC T... Db - IP66/67

C€ 0722 (II 2 GD - Ex i IIC T... Gb - Ex tb IIIC T... Db - IP66/67

Certification:

ATEX CESI 02 ATEX 091

IEC Ex CES 14.0018X

All IEC Ex certification data can be downloaded

TR CU AVAILABLE

All TR CU certification data can be downloaded from www.cortemgroup.com

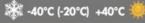
INMETRO DNV 14.0108

All INMETRO certification data can be downloaded from www.cortemgroup.com

Standards:

CENELEC EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-7: 2007, EN 60079-11: 2012, EN60079-31: 2009, EN 60529: 1991 and EUROPEAN DIRECTIVE 2014/34/UE

Ambient Temp.:



The boxes can be installed in other ambient temperature ranges. In this case, the terminal strips used must be made from the materials indicated in chart 1 and 2.

Degree of protection:

IP66/67

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