Zone

1 21 2 22

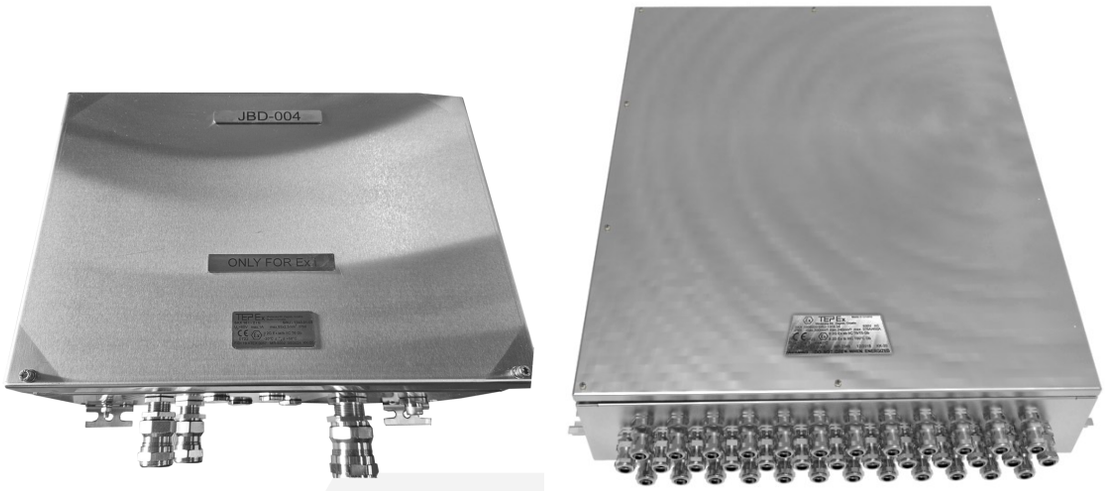
SKX ..I/E

IP 66

IK 09

T_a -20 +50

ATEX



- Enclosures in stainless steel AISI 316L
- 5 basic enclosure sizes
- Fitted according to the customer's requirements
- Hinged door

CONSTRUCTION

Enclosure: Stainless steel AISI 316L, brush finished, thickness 1.5 mm
Cover: with integrated thermoplastic elastomer gasket, closes with four M6 stainless steel screws.

TECHNICAL DATA

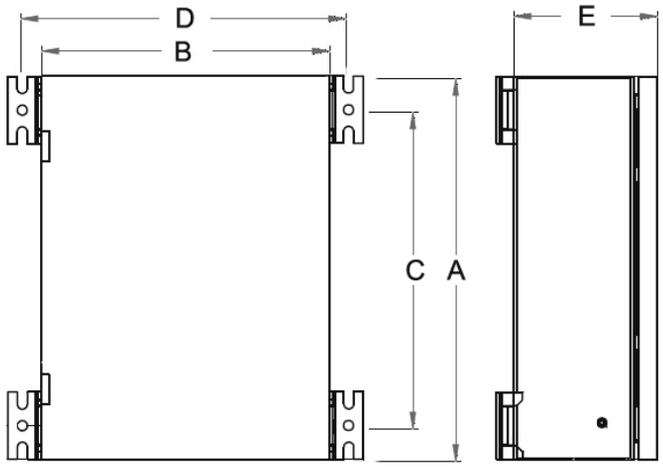
Certificate:	FIDI 19 ATEX 0057
Marking:	CE 0722
Apparatus category:	II 2GD
Marking of explosion protection:	Ex eb IIC T6 Gb Ex ia/ib IIC T6 Gb Ex eb ia/ib IIC T6 Gb Ex tb IIIC T80°C Db
Ambient temperature:	-20ºC ≤ T_a ≤ +50ºC
Degree of protection:	IP 66
Resistance to shock:	IK 09
Protection class :	I (protective earthing)
Rated voltage:	630 V
Nominal current:	Up to 125 A (depend on size and number of terminals)
Maximum safe voltage U_m for intrinsically safe circuits Exi:	60 V
PE terminals (inside of the enclosure):	max. 2x4 mm^2 + 2x2,5 mm^2 , 3x4 mm^2 , 2x6 mm^2
N/PE rails inside the enclosure:	2 pcs, 11 terminals 2x4 mm^2 max.
Weight (without cable glands):	SKX 15I/E …….4,5 kg SKX 16I/E……..5,2 kg SKX 18I-2/E……. 6,4 kg SKX 20I/E……12,0 kg

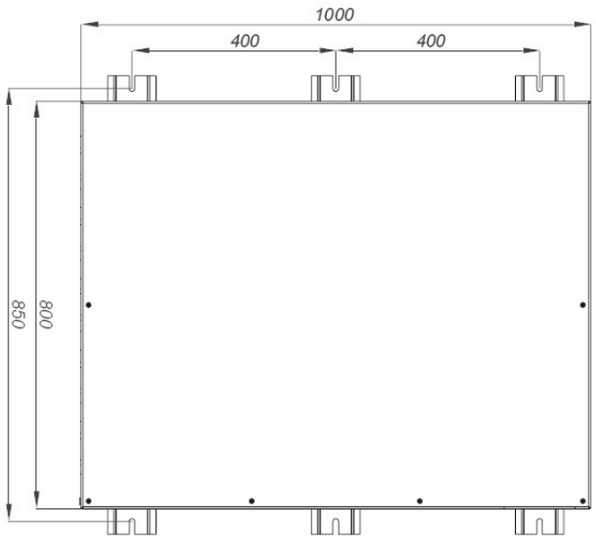
MOUNTING

With four screws through the housing holes ϕ10 mm at the peaks the rectangle:

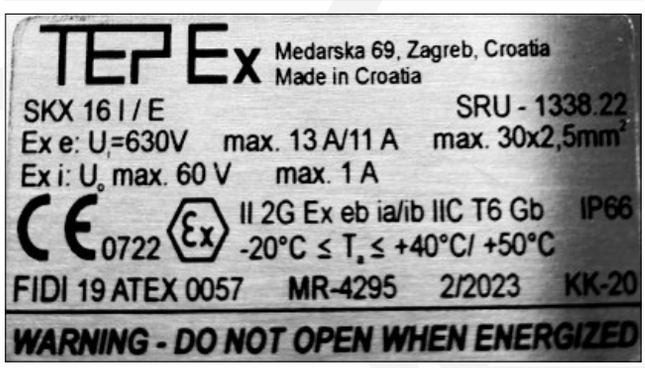
make your work surroundings safer

Stainless steel terminal box SKX 16l/E, SKX 18l-2/E, SKX 20l/E, SKX 1008020



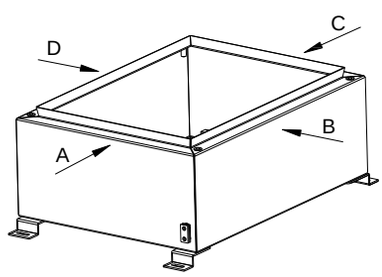


Type	A[mm]	B[mm]	C[mm]	D[mm]	E[mm]
SKX 15l/E	200	200	145	230	150
SKX 16l/E	300	300	245	330	
SKX 18l-2/E	400	300	325	330	
SKX 20l/E	600	400	530	440	200
SKX 1008020	1000	800	800	850	



Max. number of mounted cable entries:

TYPE Dimension	SKX 15l/E 200x200x150		SKX 16l/E 300x300x150		SKX 18l-2/E 400x300x150		SKX 20l/E 600x400x200		SKX 1008020 1000x800x200	
Side / Cable gland	A-C	B-D	A-C	B-D	A-C	B-D	A-C	B-D	A-C	B-D
M20x1.5	9	9	12	14	14	16	17	30	48	60
M25x1.5	7	7	5	5	5	7	15	26	36	48
M32x1.5	4	4	4	4	4	6	9	14	20	28
M40x1.5	3	3	4	4	4	6	6	12	14	22
M50x1.5	2	2	3	3	3	4	5	6	8	10
M63x1.5	1	1	2	2	3	4	4	6	6	8



All technical data is relevant at the time of print.

Terminal box SKX 15I/E (200x200x150 mm)

Table of allowed number of terminals

Nominal cross-section of conductors / terminals [mm^2]	Maximum number of terminals	Ambient temperature Ta[°C]	Imax [A]
2,5/2,5	2	-20°C ÷ +40 °C	18
2,5/2,5	4		16
2,5/2,5	24		13
2,5/2,5	28		12
2,5/2,5	2	-20°C ÷ +50 °C	16
2,5/2,5	4		14
2,5/2,5	24		11
2,5/2,5	28		10
4/4	4	-20°C ÷ +40 °C	21
4/4	8		18
4/4	24		16
4/4	4	-20°C ÷ +50 °C	18
4/4	8		16
4/4	24		14
6/6	2	-20°C ÷ +40 °C	36
6/6	4		32
6/6	8		22
6/6	16		20
6/6	2	-20°C ÷ +50 °C	30
6/6	4		26
6/6	8		19
6/6	16		17
10/10	2	-20°C ÷ +40 °C	50
10/10	4		45
10/10	8		37
10/10	12		33
10/10	2	-20°C ÷ +50 °C	42
10/10	4		37
10/10	8		30
10/10	12		26
16/16	2	-20°C ÷ +40 °C	66
16/16	4		58
16/16	8		55
16/16	12		50
16/16	2	-20°C ÷ +50 °C	58
16/16	4		50
16/16	8		45
16/16	12		40
25/25	2	-20°C ÷ +40 °C	80
25/25	4		70
25/25	8		60
25/25	2	-20°C ÷ +50 °C	70
25/25	4		60
25/25	8		50
35/35	2	-20°C ÷ +40 °C	109
35/35	4		80
35/35	2	-20°C ÷ +50 °C	95
35/35	4		70

Terminal box SKX 16I/E (300x300x150 mm)

Table of allowed number of terminals

Nominal cross section of conductors / terminals (mm^2)	Maximum number of terminals	Ambient temperature Ta[°C]	Imax [A]
2,5 / 2,5	60	-20°C ÷ +50 °C	8
2,5 / 2,5	30		11
2,5 / 2,5	4		16
4 /4	48	-20°C ÷ +50 °C	11
4 /4	24		16
4 /4	4		22
6 / 6	36	-20°C ÷ +40 °C	18
6 / 6	18		26
6 / 6	4		35
6 / 6	36	-20°C ÷ +50 °C	16
6 / 6	18		22
6 / 6	4		31
10 /10	30	-20°C ÷ +50 °C	22
10 /10	14		34
10 /10	4		40
16 / 16	22	-20°C ÷ +40 °C	38
16 / 16	11		52
16 / 16	4		63
16 / 16	22	-20°C ÷ +50 °C	32
16 / 16	11		45
16 / 16	4		54
25 / 25	18	-20°C ÷ +40 °C	52
25 / 25	11		65
25 / 25	4		80
25 / 25	18	-20°C ÷ +50 °C	45
25 / 25	11		56
25 / 25	4		69
35 / 35	14	-20°C ÷ +40 °C	65
35 / 35	8		90
35 / 35	4		94
35 / 35	14	-20°C ÷ +50 °C	56
35 / 35	8		80
35 / 35	4		82
50 /50	10	-20°C ÷ +40 °C	90
50 /50	3		12
50 /50	10	-20°C ÷ +50 °C	80
50 /50	3		105

Maximum possible number of terminals definite by enclosure dimensions

Maximum possible number of terminals definite by enclosure dimensions	36	30	22	18	15	15	10	8
Width of single terminal [mm]	5	6	7	10	12	12	15	18,5
Allowed cross-section of conductor for single terminal	1x2.5-1 .5 mm^2	1 x4-1.5 mm^2	1 x6-1.5 mm^2	1 x10-2.5 mm^2	1 x16-2.5 mm^2	1 x 25-6 mm^2	1 x 35-6 mm^2	1 x 50-10 mm^2
Width of PE terminal [mm]	5	6	7	10	12	12	15	18.5
Width of end holder	9							
Space for terminals on DIN rail without end holders	max. 214 mm							

All technical data is relevant at the time of print.

Terminal box SKX 18I-2/E (400x300x150 mm)

Table of allowed number of terminals

Nominal cross section of conductors / terminals (mm^2)	Maximum number of terminals	Ambient temperature Ta[°C]	Imax [A]
2,5 / 2,5	95	-20°C ÷ +40 °C	9
2,5 / 2,5	55		12
2,5 / 2,5	4		16
2,5 / 2,5	95	-20°C ÷ +50 °C	8
2,5 / 2,5	55		10
2,5 / 2,5	4		14
4 /4	88	-20°C ÷ +40 °C	12
4 /4	50		16
4 /4	4		23
4 /4	88	-20°C ÷ +50 °C	10
4 /4	50		14
4 /4	4		20
6 / 6	75	-20°C ÷ +40 °C	16
6 / 6	36		23
6 / 6	4		34
6 / 6	75	-20°C ÷ +50 °C	14
6 / 6	36		20
6 / 6	4		30
10 /10	60	-20°C ÷ +40 °C	23
10 /10	27		34
10 /10	4		48
10 /10	60	-20°C ÷ +50 °C	20
10 /10	27		30
10 /10	4		42
16 / 16	44	-20°C ÷ +40 °C	34
16 / 16	22		48
16 / 16	4		60
16 / 16	44	-20°C ÷ +50 °C	30
16 / 16	22		42
16 / 16	4		50
25 / 25	34	-20°C ÷ +40 °C	48
25 / 25	21		60
25 / 25	4		80
25 / 25	34	-20°C ÷ +50 °C	42
25 / 25	21		50
25 / 25	4		70
35 / 35	31	-20°C ÷ +40 °C	60
35 / 35	17		80
35 / 35	4		105
35 / 35	31	-20°C ÷ +50 °C	50
35 / 35	17		70
35 / 35	4		90
50 /50	25	-20°C ÷ +40 °C	80
50 /50	13		110
50 /50	4	-20°C ÷ +40 °C	125
50 /50	25		70
50 /50	13		95
50 /50	4		100

Maximum possible number of terminals definite by enclosure dimensions

Maximum possible number of terminals definite by enclosure dimensions	64	54	40	32	26	26	20	16
Width of single terminal [mm]	5	6	7	10	12	12	15	18,5
Allowed cross-section of conductor for single terminal	1x2.5-1 .5 mm^2	1 x4-1.5 mm^2	1 x6-1.5 mm^2	1 x10-2.5 mm^2	1 x16-2.5 mm^2	1 x 25-6 mm^2	1 x 35-6 mm^2	1 x 50-10 mm^2
Width of PE terminal [mm]	5	6	7	10	12	12	15	18.5
Width of end holder	9							
Space for terminals on DIN rail without end holders	max. 300 mm							

All technical data is relevant at the time of print.

Terminal box SKX 20I/E (600x400x200 mm)

Table of allowed number of terminals

Nominal cross section of conductors / terminals (mm^2)	Maximum number of terminals	Ambient temperature Ta[°C]	Imax [A]
2,5 / 2,5	200	-20°C ÷ +40 °C	6
2,5 / 2,5	102		9
2,5 / 2,5	60		12
2,5 / 2,5	4	-20°C ÷ +40 °C	16
2,5 / 2,5	102		8
2,5 / 2,5	60		10
2,5 / 2,5	4	-20°C ÷ +50 °C	14
4 /4	180		9
4 /4	96		12
4 /4	53	-20°C ÷ +40 °C	16
4 /4	4		23
4 /4	96		10
4 /4	53	-20°C ÷ +50 °C	14
4 /4	4		20
6 / 6	80		16
6 / 6	38	-20°C ÷ +40 °C	23
6 / 6	4		34
6 / 6	80		14
6 / 6	38	-20°C ÷ +50 °C	20
6 / 6	4		30
10 /10	65		23
10 /10	29	-20°C ÷ +40 °C	34
10 /10	4		48
10 /10	65		20
10 /10	29	-20°C ÷ +50 °C	30
10 /10	4		42
16 / 16	47		34
16 / 16	24	-20°C ÷ +40 °C	48
16 / 16	4		60
16 / 16	47		30
16 / 16	24	-20°C ÷ +50 °C	42
16 / 16	4		50
25 / 25	37		48
25 / 25	23	-20°C ÷ +40 °C	60
25 / 25	4		80
25 / 25	37		42
25 / 25	23	-20°C ÷ +50 °C	50
25 / 25	4		70
35 / 35	33		60
35 / 35	18	-20°C ÷ +40 °C	80
35 / 35	4		105
35 / 35	33		50
35 / 35	15	-20°C ÷ +50 °C	70
35 / 35	4		90
50 /50	26	-20°C ÷ +40 °C	80
50 /50	14		110
50 /50	4		125
50 /50	26		70
50 /50	14		95
50 /50	4		100

Maximum possible number of terminals definite by enclosure dimensions

Maximum possible number of terminals definite by enclosure dimensions	100	86	66	50	40	40	30	26
Width of single terminal [mm]	5	6	7	10	12	12	15	18,5
Allowed cross-section of conductor for single terminal	1x2.5-1 .5 mm^2	1 x4-1.5 mm^2	1 x6-1.5 mm^2	1 x10-2.5 mm^2	1 x16-2.5 mm^2	1 x 25-6 mm^2	1 x 35-6 mm^2	1 x 50-10 mm^2
Width of PE terminal [mm]	5	6	7	10	12	12	15	18,5
Width of end holder	9							
Space for terminals on DIN rail without end holders	max. 500 mm