

Blocks & Holders



Semiconductor Fuses

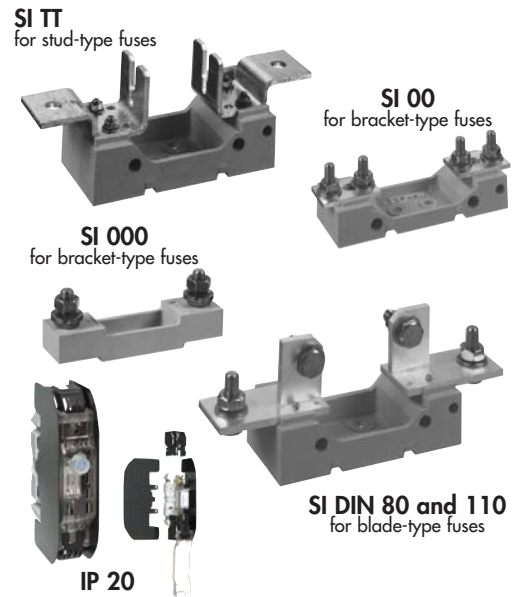
Square-body Fuse Bases

SI

FINGER SAFE (IP20) AND STANDARD VERSION SI FUSEHOLDERS

- FOR STUD-TYPE FUSES
- FOR BLADE-TYPE FUSES
SI 00 AND SI 000
- FOR BRACKET-TYPE FUSES
SI DIN 80 AND DIN 110

- MOUNTING IN ONE-POLE FUSEHOLDER SIMPLIFIES FUSE REPLACEMENT FOR INSTALLATIONS CONNECTED WITH CABLES AND BARS
- FOR TTF STUD-TYPE FUSES FOR BLADE AND BRACKET-TYPE FUSES AS PER DIN 43653 STANDARD
SIZES: 000 - 00, 80 MM BETWEEN AXES
SIZES: 0 - 1 - 2 - 3, 80 AND 110 MM BETWEEN AXES
- FOR TTF VERSION STUDS ARE DELIVERED WITH THE FUSE HOLDER
- FINGER SAFE VERSION AVAILABLE



MAIN CHARACTERISTICS

Catalog Number and sizes	Insulation voltage U_i (AC 50/60 Hz & DC)	Current	Maximum power* (W)	Dielectric withstand test		Fire and fumes class
				RMS voltage 1 mn 50/60 Hz	Impulse voltage 1.2/50 μ s	
SI TT 30/31	1500 V	1000 A	53 - 75	10 kV	12 kV	UL 94 VO I ₁ F ₁ (NF 16102)
SI TT 70/71	1500 V	1000 A	53 - 75	10 kV	12 kV	
SI TT 32/33	1500 V	2500 A	100	10 kV	12 kV	
SI TT 72/73	1500 V	2500 A	100	10 kV	12 kV	
SI 000 DIN 80	700 V	400 A	24	7 kV	8 kV	UL 94 VO
SI 00 DIN 80	700 V	400 A	28	8 kV	12 kV	UL 94 VO - I ₃ F ₃ (NF 16102)
SI DIN 80 630 (30 to 33)	1500 V	2500 A	95	10 kV	12 kV	UL 94 VO I ₁ F ₁ (NF 16102)
SI DIN 110 630 (30 to 33 - 70 to 73)	1500 V	2500 A	95	10 kV	12 kV	
SI DIN 80 1250 (30 to 33)	1500 V	2500 A	110	10 kV	12 kV	
SI DIN 110 1250 (30 to 33 - 70 to 73)	1500 V	2500 A	110	10 kV	12 kV	

Vibration withstand for standard version:

Tests with sine vibrations carried out at ambient with scanning each of the three main axes of the holder.

Spectrum: 1st segment (2 to 16 Hz) constant trip $x = 5$ mm peak.

2nd segment (16 to 250 Hz) constant acceleration $\gamma = 5$ g peak.

Exponential scanning speed: 1 octave per minute.

Duration: 2 hours per axis.

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Square-body Fuse Bases

SI

References

Standard version

Catalog Number	Ref. Number	Weight (g)	Packaging
SI TT 30/31	B 301232	1 960	1
SI TT 70/71	C 301233	1 960	1
SI TT 32/33	D 301234	2 900	1
SI TT 72/73	E 301235	2 900	1
SI 000 DIN 80	C 220710	90	12
SI 00 DIN 80	Q 098040	205	3
C - CLO*	M 091344	37	2
SI DIN 80 630	L 098772	625	1
SI DIN 110 630	F 098031	625	1
SI DIN 80 1250	F 098560	885	1
SI DIN 110 1250	L 091941	885	1

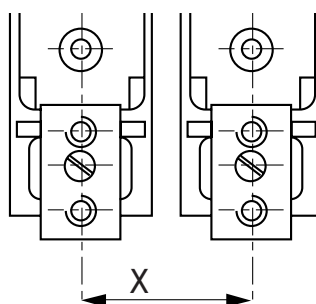
* Necessary for SI 00 DIN 80 one-pole mounting.

Finger safe version (IP20)

Sizes	Impossible to use Microswitch			Microswitch can be used		
	TTF	DIN 80	DIN 110	TTF	DIN 80	DIN 110
0		B227218C			V227672C	
0		C227219C			W227673C	
30	N320701C	L320745C	X320755C	P320725C	R320750C	C320760C
31				V320730C		
32	S320705C					
33	Y320710C	R320750C	C320760C			
70	D320715C		X320755C	A320735C		
71				F320740C		
72	J320720C		C320760C			
73						

DISTANCE "X" BETWEEN POLE AXES (WITHOUT PARTITION)

Catalog Number	Fuses sizes	Operating voltage U				
		400V	550V	690V	1000 V	1250 V
SI TT 30/31 SI TT 70/71	30 - 31 70 - 71	58,5	61	65	71	76
SI TT 32/33 SI TT 72/73	32 - 33 72 - 73	79,5	84,5	88,5	94,5	99,5
SI 000 DIN 80 SI 00 DIN 80	000 00	25 46,5	35 46,5	39 46,5	45 50	50 55
SI DIN 80 630/1250	30 - 31 32 - 33	58,5 79,5	61 84,5	65 88,5	71 94,5	76 99,5
SI DIN 110 630/1250	30 - 31 - 70 - 71 32 - 33 72 - 73	58,5 79,5	61 84,5	65 88,5	71 94,5	76 99,5



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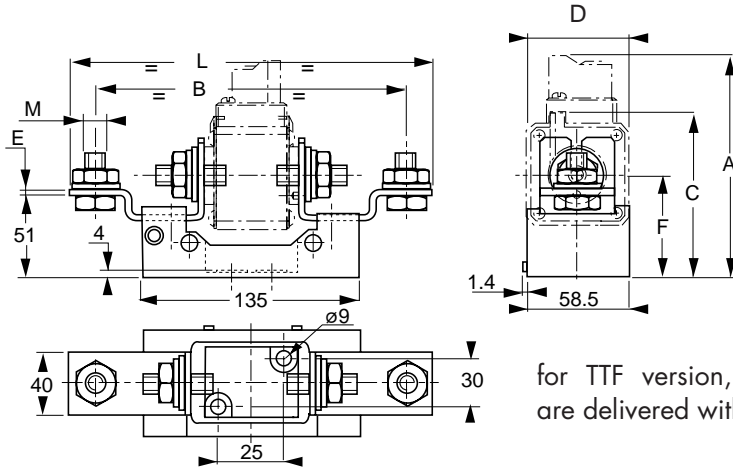
Semiconductor Fuses

Square-body Fuse Bases

SI

CONNECTION DIMENSIONS

SI TT

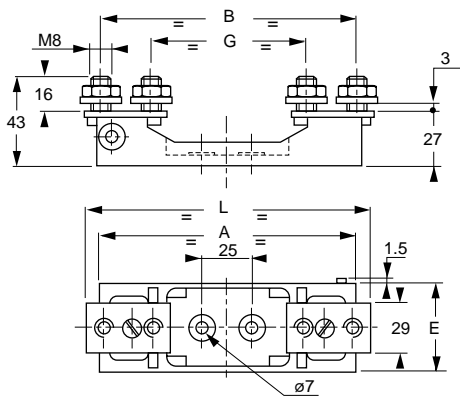


for TTF version, adapted studs are delivered with the fuse holder

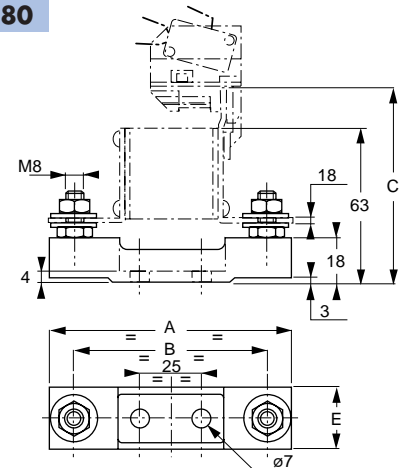
Catalog Number	A	B	C	D	E	G	L	M	F
SI TT 30/31	118(30) 123(31)	170	83 (30) 88 (31)	42(30) 51(31)	4	50,6	202	M8	57
SI TT 70/71	118(70) 123(71)	193	83 (70) 88 (71)	42(70) 51(71)	4	74	225	M8	67
SI TT 32/33	137(32) 145(33)	170	93 (32) 109 (33)	60(32) 75(33)	6	50,6	202	M10 (32) M12 (33)	57
SI TT 72/73	137(72) 145(73)	193	93 (72) 109 (73)	60(72) 75(73)	6	71	225	M10 (32) M12 (33)	67

Partition mounting not possible. Panel drilling: 25x30 mm

SI 00 DIN 80



SI 000 DIN 80



Catalog Number	A	B	C	D	E	G	L	Fuse sizes
SI 000 DIN 80	100	80	80	19	25	80	100	000-17x49-27x60 DIN 80
SI 00 DIN 80	133	130			46.5	79	148	00-27x60 DIN 80

Partition mounting only for SI 00 DIN 80

* Electrical connection of fuse and fuse holder via supplied studs, nuts and washers

Maximum recommended tightening torque:
 13.5 Nm for M8 screws.
 26 Nm for M10 screws.
 46 Nm for M12 screws.

- Fixing of base on plate or bar via screws not supplied.

M6 for SI 000 and SI 00 Tightening torque 7 ± 1.5 Nm.
 M8 for SI TT Tightening torque 10 ± 2 Nm.

Blocks & Holders

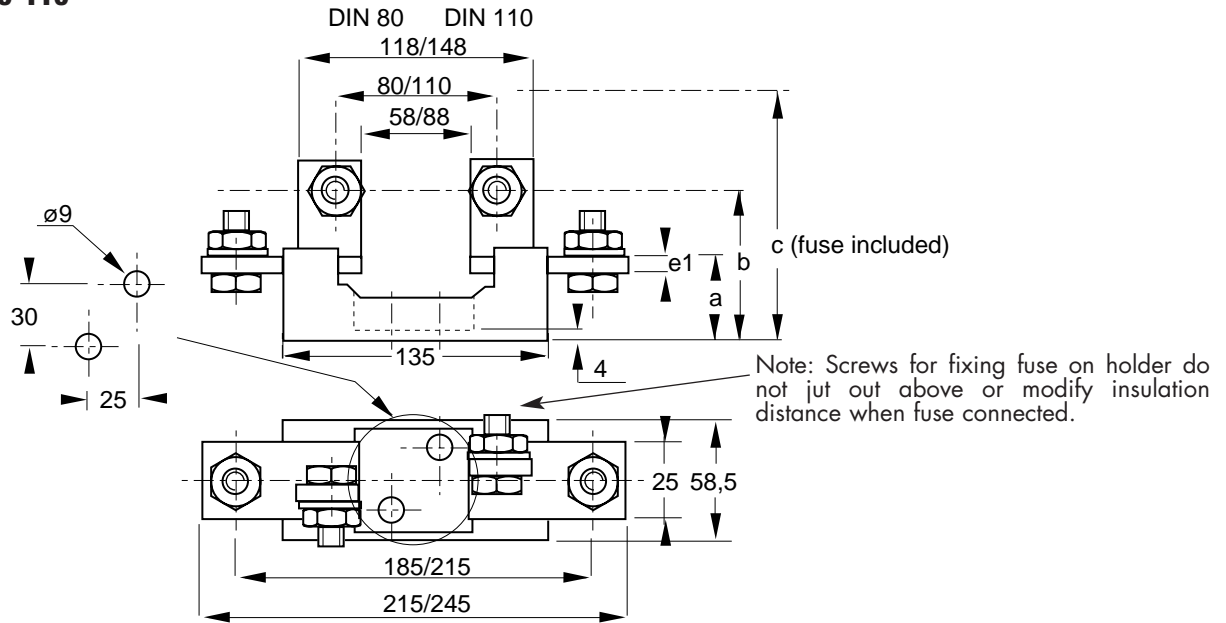


Semiconductor Fuses

Square-body Fuse Bases

SI

SI DIN 80-110



Catalog Number	a	e1	b	C	Fuse size
SI DIN 80 630	40	5	68	93.5	30 D08.....
				99.0	31 D08.....
				103.5	32 D08.....
				110.3	33 D08.....
SI DIN 110 630	40	5	68	93.5	30-70 D11.....
				99.0	31-71 D11.....
				103.5	32-72 D11.....
				110.3	33-73 D11.....
SI DIN 80 1 250	45	10	73	98.5	30 D08.....
				104	31 D08.....
				108.5	32 D08.....
				115.3	33 D08.....
SI DIN 110 1 250	45	10	73	98.5	30-70 D11.....
				104	31-71 D11.....
				108.5	32-72 D11.....
				115.3	33-73 D11.....

Partition mounting impossible

* Electrical connection of fuse and wires by M10x30 screws made in plated steel minimum 8-8 class.

Screws included.

Maximum recommended tightening torque: $44 \pm \frac{0}{8}$ Nm for M10 screw.

- Fixing of base with screws not supplied: M8. Tightening torque 10 ± 2 Nm.

Blocks & Holders



Semiconductor Fuses

Square-body Fuse Bases

SP SE SF

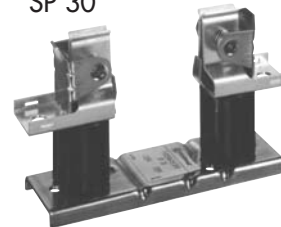
SP - SE - SF FUSEHOLDERS
FOR "E" BLADE-TYPE FUSES

■ MOUNTING IN ONE-POLE FUSEHOLDER
SIMPLIFIES REPLACEMENT OF FUSES
FOR INSTALLATIONS CONNECTED
WITH CABLES AND BARS

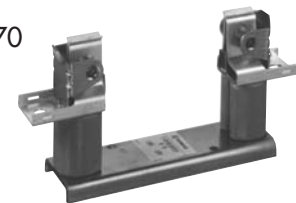
■ FOR "E" BLADE-TYPE FUSES

- ELASTIC TIGHTENING FOR SIZES 0 TO 2
- BOLTED TIGHTENING FOR SIZE 3

SP 30



SP 70



MAIN CHARACTERISTICS

Catalog Number	Insulation voltage U_i (AC 50/60 Hz & DC)	Current	Maximum power* (W)	Dielectric withstand test	
				RMS voltage 1 mn 50/60 Hz	Impulse voltage 1.2/50 μ s
SP 30	1 250 V	550 A	31	13 kV	20 kV
SP 70	1 500 V	630 A	31	13 kV	20 kV
SP 43 120	2 500 V	200 A		13 kV	20 kV
SP 85 200	7 200 V	160 A		34 kV	40 kV
SE 31	1 250 V	800 A	59	13 kV	20 kV
SE 32	1 250 V	1 800 A	95	13 kV	20 kV
SE 71	1 500 V	1 000 A	59	13 kV	20 kV
SE 72	1 500 V	1 250 A	95	13 kV	20 kV
SE 91	2 000 V	350 A		13 kV	20 kV
SE 92	2 000 V	500 A		13 kV	20 kV
SE 43 121	2 500 V	315 A		13 kV	20 kV
SE 43 122	2 500 V	500 A		13 kV	20 kV
SF 50-33	3 200 V	2 500 A	110	24 kV	20 kV
SF 50-73	3 200 V	1 800 A	110	24 kV	20 kV
SF 50-93	3 200 V	1 800 A		24 kV	20 kV
SF 50-123	3 200 V	1 800 A		24 kV	20 kV

Blocks & Holders



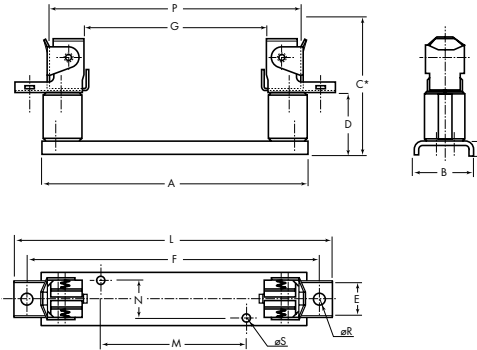
Semiconductor Fuses

Square-body Fuse Bases

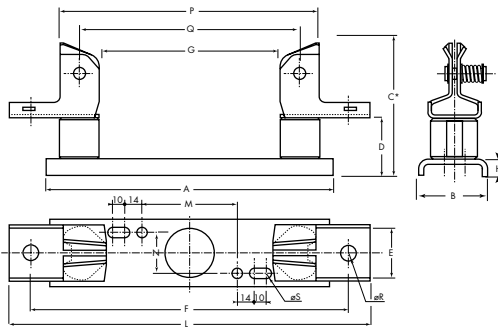
SP SE SF

DIMENSIONS

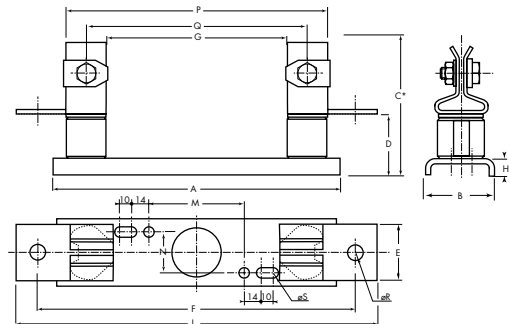
Drawing #1
"SP" elastic tightening



Drawing #2
"SE" elastic tightening



Drawing #3
"SF" bolted tightening



NB: For SF 50-33 types fixing dimension 14 becomes 12.5

Catalog Number	Drawing #	A	B	C*	D	E	F	G	H	L	M	N	P	Q	Ø R	Ø S
SP 30	1	138	42	109	46	26	134.5	54.5	8.5	155	52	28	98.5		8.5	5.5
SP 70	1	148	42	110.5	47.5	26	168	88	10	188	60	28	138		8.5	5.5
SP 43 120	1	194.5	42	117.5	54.5	26	214.5	134.5	10	234.5	106.5	28	184		8.5	5.5
SP 85 200	1	292	54	173	86.5	26	276	196	15	296	155	35	240		8.5	8.5
SE 31	2	148	42	116	46.5	32	158.5	61.5	8.5	190.5	60	28	111.5	86.6	10.5	5.5
SE 32	2	150	54	126	49	42	180	56	10	216	45	35	126	91	12.5	8.5
SE 71	2	148	42	116	46.5	32	182	85	8.5	214	60	28	135	110	10.5	5.5
SE 72	2	150	54	126	49	42	204	80	10	240	45	35	150	115	12.5	8.5
SE 91	2	174	42	116	48	32	209	111	10	241	86	28	161	136	10.5	5.5
SE 92	2	176	54	126	50	42	230	106	15	266	23	35	176	141	12.5	8.5
SE 43 121	2	204.5	42	123	54	32	238.5	141.5	10	270.5	116.5	28	191.5	166.5	10.5	5.5
SE 43 122	2	230.5	54	133	60	42	260.5	136.5	15	296.5	77.5	35	206.5	171.5	12.5	8.5
SF 50-33	3	150	60	171	65	40	186	56	15	226	NBfig.3	35	126	91	18	8.5
SF50-73	3	174	60	171	65	40	210	80	15	250	21	35	150	115	18	8.5
SF 50-93	3	200	60	176	70	40	236	106	15	276	47	35	176	141	18	8.5
SF 50-123	3	230.5	60	176	70	40	266.5	136.5	15	306.5	77.5	35	206.5	171.5	18	8.5

* Dimension for mounted fuse.

– Electrical connection of fuseholder and wires by screws made in plated steel 8-8 class (not supplied).

Maximum recommended tightening torque:

M8 : 22 \pm ₈⁰ Nm

M12 : 76 \pm ₈⁰ Nm

M16 : 100 \pm ₁₀⁰ Nm

– Fixing of base with screws:

M5 (for sizes 0 and 1) : 7 \pm 1,5 Nm

M8 (for sizes 2 and 3) : 22 \pm ₈⁰ Nm

Blocks & Holders



Semiconductor Fuses

Square-body Fuse Bases

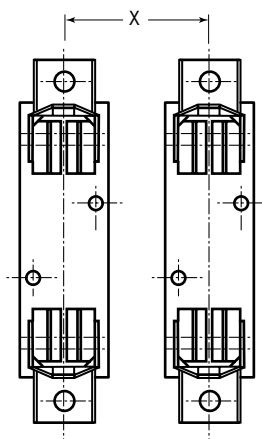
SP SE SF

REFERENCES

Catalog Number	Ref. Number	Weight (g)	Packaging
SP 30	T 096939	370	1
SP 70	F 096099	400	1
SP 43 120	W 226247	500	1
SP 85 200	E 092487	1 100	1
SE 31	J 098701	435	1
SE 32	K 098702	900	1
SE 71	V 098711	470	1
SE 72	W 098712	940	1
SE 91	V 098734	955	1
SE 92	W 098735	955	1
SE 43 121	T 226245	540	1
SE 43 122	V 226246	1 026	1
SF 50-33	B 209186	1 550	1
SF 50-73	C 209187	1 590	1
SF 50-93	X 209090	1 625	1
SF 50-123	Y 209091	1 720	1

DISTANCE "X" BETWEEN POLE AXES (WITHOUT PARTITION)

	Catalog Number	Operating voltage U						
		400 V	550 V	690 V	750 V	1 000 V	1 250 V	1 500 V
Without partition	SP 30 SP 70 SP 36 120 SP 85 200	45	50	54	55	60	65	68
	SE 31 SE 71 SE 91 SE 121	56	61	65	66	71	76	79
	SE 32 SE 72 SE 92 SE 122	65	70	74	75	80	85	88
	SF 50-33 SF 50-73 SF 50-93 SF 50-123	79,5	84,5	88,5	89,5	94,5	99,5	102,5



Blocks & Holders



Semiconductor Fuses

Ferrule fuse holders and disconnectors PS 20x127

FUSE HOLDERS AND FUSE DISCONNECTORS FOR FERRULE-TYPE FUSES 20x127

- SOLID ASSEMBLY OFFERING GOOD THERMAL AND MECHANICAL WITHSTANDS
- FUSE MOUNTING IN HOLDERS OR DISCONNECTORS WITH OR WITHOUT PREISOLATING AND BLOWN-FUSE INDICATING MICROSWITCHES
- PHENOLIC RESIN MODELS FOR BASIC APPLICATIONS FIBER-GLASS POLYESTER FOR APPLICATIONS IN CORROSIVE ATMOSPHERES OR IN TRACTION
- $U_i = 1,500 \text{ V}$ AND $2,500 \text{ V}$



MAIN CHARACTERISTICS

Catalog Number	Insulation voltage rating U_i AC 50/60 Hz or DC	Fuse current rating I_N (A)	Maximum operating current of fuse (A)					Advised copper wire size mm^2	Fire and fumes class NF F 16 - 101 and 102 and UL
			1000 V gLB	=1000 V gRC	~1000 V gRB	~1500 V gRB	~1500 V gRD		
PSI 20x127		50		50	no operating limit			10	basic model
PSI 20x127 PRE	1500 V without terminal covers	63		56				16	I2-F1
PSII 20x127 PRE		80	80					25	UL 94 V1
PSIII 20x127 PRE	2500 V with terminal covers and only salt spray -proof model	100	90					35	salt spray-proof model
PSIV 20x127 PRE		125	100					50	I1-F1 UL 94 V0

Connecting with 50 mm² max. cable with copper terminals or with a 15 x 8 max. rigid or flexible bar.

Dielectric withstand tests

	R.M.S. voltage 1 mn 50/60 Hz	Impulse voltage 1.2/50 μ s (IEC 694 et CEI 60)
Between close phases and phase and mass Between phases and microswitch	6kV(1) - 10 kV(2) 12 kV	12 kV(1) - 20 kV(2)

Connecting with 16mm max. width, 5mm max. thick terminal

(1) Basic model

Max. temperature (°C)/ Relative humidity (%): 20 °C/95% - 40°C/80% - 50°C/50%

If Holder has to be kept off, and an heating system fed during stop periods must be used. Purpose is to keep the temperature of cubicle at a level just a little higher than outdoor temperature.

(2) Salt spray-proof model

Moist tropical and equatorial climate. Corrosive atmosphere.