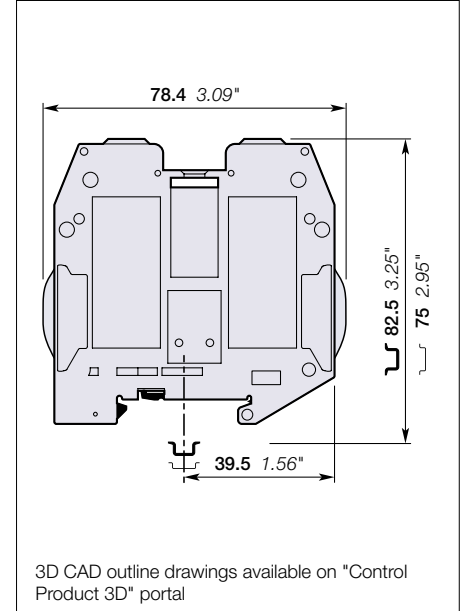
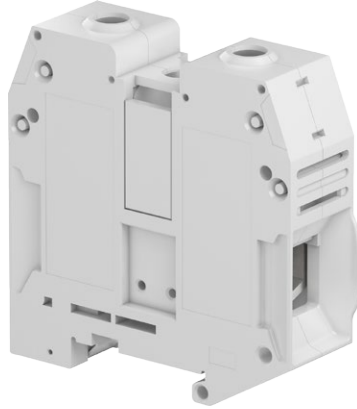




ZS70 screw clamp terminal blocks Feed-through




Closed terminal block:

- No end section needed,
- Optimized rigidity,
- Perfectly adapted to solar applications: 1250 V DC (1000 V AC) IEC and 1000 V UL.












		70 mm² 00 AWG
22 mm 0.866 in spacing		

Ordering details

Color	Type	Order code	EAN code	Pkg qty	Weight (1 pce) g
Grey	 ZS70	1SNK522010R0000	3472595220106	10	158.10
Blue	 ZS70-BL	1SNK522020R0000	3472595220205	10	158.10
Yellow	 ZS70-YL	1SNK522060R0000	3472595220601	10	158.10

Declarations and certificates

									UE / ATEX Declaration
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Declarations and certificates

Document Part Number





	UE	1SND225112U1003
	CB	1SND161034A0202
	RoHS	1SND230491F0206
	USR CNR	1SND161040A0206
	CSA	1SND161070A0209
	EAC Ex	1SND161010A1100
	ATEX	1SND162004A1708
	IECEX	1SND162005A1706
	BR-Ex e II	1SND161042A0203
	USR CNR Haz Loc	1SND161047A0203
	BV	1SND161073A0204
	DNV	1SND161087A0202
	RINA	1SND161088A0200
UE / ATEX Declaration	UE / ATEX Declaration	

Explosive atmosphere: ATEX classification

Group category	Protection method
IM2 II 2 GD Ex eb I/II/IIIC	Ex e: increased security
In the presence of explosive dust atmosphere, terminal blocks have to be installed in certified enclosure II 2D	

General information

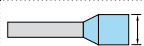
The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.

Protection	IEC 60947-1	IP10	NEMA 1
Rail		TH 35-7.5, TH 35-15	
Wire stripping length		25 mm	0.984 in
		Screw clamp	Screw rail contact (Maximum value)
Operating tool		Allen key	
		6 mm	0.236 in
Torque		6.5 N.m ± 0.5 57.5 lb.in ± 4.43	
			Disconnect device

Material specifications

Insulating material	Polyamide
CTI	600 V
Flammability	UL94 V0
	Grey and dark grey color only NF F 16-101 I2F2
	Needle flame test IEC 60695-11-5 Compliant

Connecting capacity per clamp

		Screw clamp	
1 Rigid - Solid / Stranded conductor	Norme	IEC 60947-7-1	UL 1059
	Value	16 ... 95 mm ²	4 ... 00 AWG
1 Flexible conductor	Norme	IEC 60947-7-1	
	Value	16 ... 70 mm ²	
1 Flexible conductor with non insulated ferrule	Norme	Manufacturer data	
	Value	16 ... 50 mm ²	
1 Flexible conductor with insulated ferrule	Norme	Manufacturer data	
	Value	16 ... 50 mm ²	
Gauge	Norme	IEC 60947-1	
	Value	B11	
Ferrule maximum outer diameter or conductor insulation maximum outer diameter		∅ Max.	

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm²).

As part of its on-going product improvement, ABB reserves the right to modify the characteristics or the products described in this document. The information given is not contractual. For further details please contact the ABB company marketing these products in your country.

Multi connecting capacity per clamp

2 Rigid - Solid / Stranded conductors	Norme	IEC60947-7-1	UL1059	
	Value	16 ... 35 mm ²	4 ... 2 AWG	
2 Flexible conductors	Norme	IEC60947-7-1		
	Value	16 ... 35 mm ²		
2 Flexible conductors with twin ferrule	Norme	Manufacturer data	Manufacturer data	
	Value	16 mm ²	6 AWG	

Don't mix **solid and flexible** conductors **in the same clamp**.

Don't mix **solid or flexible** conductors of different sizes **in the same clamp**.

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm²).

Cross section

Rated cross section		70 mm ²		00 AWG
Maximum cross section	Manufacturer data	70 mm ²	Manufacturer data	00 AWG

Electrical characteristics

Current

Rated current				192 A
	Field and factory wiring Cat.2		UL 1059	159 A
	Factory wiring Cat.1		UL 1059	159 A
			CSA-C-22.2 n° 158	
Maximum Exe current			IEC/EN 60079-7	192 A
Rated short-time withstand current 1 s (I _{cw})				8400 A
Short-time withstand current	0,5 s		Manufacturer data	11800 A
	5 s		Manufacturer data	3700 A
	10 s		Manufacturer data	2600 A
	30 s		Manufacturer data	1500 A
	1 mn		Manufacturer data	1000 A
Rated short-circuit withstand current			UL 1059	
Max. current (45° temperature increase) / Max. cross section (mm ²)			Manufacturer data	192 A 70 mm ²
Maximum short circuit current (1s)			Manufacturer data	8400 A

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR			UL 1059	100 kA
With the following configurations:				
	Suitable conductor wire range			4 ... 00 AWG
	Maximum voltage			600 V
	Fuse class / Max. amp. Rating		J	250 A
			T	250 A
			RK1	200 A
			RK5	100 A
			G	60 A
			CC	30 A

Voltage

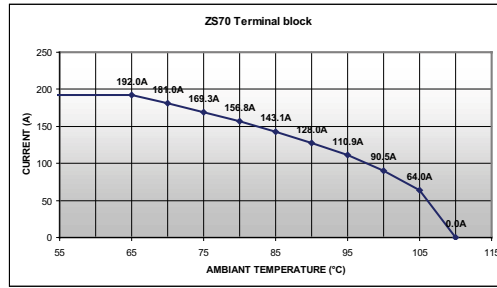
Rated voltage		IEC 60947-1	1000 V
Rated voltage		UL 1059	1000 V
Use Group		UL 1059	B, C
Rated voltage		CSA-C-22.2 n° 158	
Rated voltage Ex e		IEC/EN 60079-7	693 V
Rated impulse withstand voltage		IEC 60947-1	8000 V
Dielectric test voltage		IEC 60947-1	2200 V
Pollution degree		IEC 60947-1	3
Overvoltage category		IEC 60947-1	III

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Temperature range

Ambient temperature min/max	Storage	-55 ... +110 °C	-67 ... +230 °F
	Installing	-5 ... +40 °C	+23 ... +104 °F
	Service	-55 ... +110 °C	-67 ... +230 °F

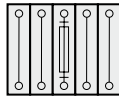
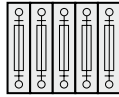
Current Derating curve for continuous service temperature



Dissipated power

Maximum dissipated power at rated current	IEC 60947-7-1	6.1 W
Maximum dissipated power at maximum Exe current	IEC 60079-7	6.1 W

Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3

Separate arrangement/ Overload and short-circuit protection		1 fuse and 4 feed-through blocks
Separate arrangement/ Exclusive short-circuit protection		
Compound arrangement/ Overload and short-circuit protection		5 fuse blocks
Compound arrangement/ Exclusive short-circuit protection		

Environmental characteristics

Additional climatic tests

Dry heat	Conditions	IEC 60068-2-2	Compliant
		Temperature	+100 °C
		Duration of test	96 h
Cyclic damp heat	Conditions	IEC 60068-2-30	Compliant
		Temperature	+55 °C
		Relative humidity	
		Number of cycles (1 cycle = 24h)	2
Cold	Conditions	IEC 60068-2-1	Compliant
		Temperature	-40 °C
		Duration of test	96 h

Corrosion

Salt mist	Conditions	IEC 60068-2-11	Compliant
		Duration of test	96 h
		Concentration	5 %
SO ₂	Conditions	ISO 6988	Compliant
		Duration of test	48 h
		Concentration	0.2 dm ³

Vibrations and shocks

Sinusoidal vibrations	Conditions	IEC 60068-2-6	Compliant
		Frequency range	10 ... 55 Hz
		Number of cycles	10
		Acceleration	10 m/s ²

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ZS70 terminal block accessories compatibility

Some accessories may modify the terminal block's rating. See complete information in the accessories "Technical Datasheet".

Description	Color	Type	Order code	Pkg qty	Weight (1 pce) g
End stops	Dark grey <input checked="" type="checkbox"/>	BAZH1	1SNK900102R0000	20	24.00
Jumper bars		JB22-2	1SNK922302R0000	5	27.00
		JB22-3	1SNK922303R0000	5	43.30
		JB22-5	1SNK922305R0000	5	76.10
		JB22-10	1SNK922310R0000	5	157.40
Terminal block markers	White <input type="checkbox"/>	MC812	1SNK160000R0000	22	10.00
		MC812PA	1SNK169999R0000	20	14.00
	Grey <input type="checkbox"/>	UMH	1SNK900611R0000	10	0.20
	White <input type="checkbox"/>	MG-CPM 13 41791	1SNB041791R0612	1680	0.273

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