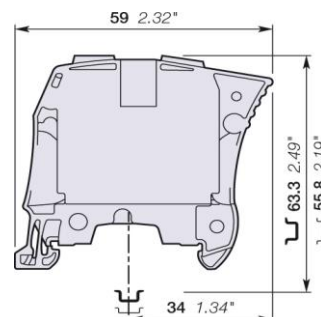


ZS35 Screw Clamp Terminal Blocks Feed-through

Closed terminal block:

- No end section needed,
- Optimized rigidity,
- Perfectly adapted to solar applications: voltage is rated 1000 V AC / DC IEC.



3D CAD outline drawings available on "Control Product 3D" portal

		35 mm ²
		0 AWG
16 mm 0.630 in Spacing		












Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(mg)	Weight (1 pce) g
Grey	ZS35	1SNK516010R0000	3472595160105	20	53.40
Blue	ZS35-BL	1SNK516020R0000	3472595160204	20	53.40
Orange	ZS35-OR	1SNK516030R0000	3472595160303	20	53.40

Declarations and Certificates

CE	CB	RoHS	UL	UL	UL	EAC Ex	ATEX	IECEx	
BR-Ex e II	Haz Loc	BV	Rina	DNV	ATEX Declaration				

Declarations and Certificates





	CE	1SND225100U10*
	CB	1SND161028A02*
	RoHS	1SND230491F02*
	UL	1SND161041A02*
	CSA	1SND161067A02*
	EAC Ex	
	ATEX	1SND162004A17*
	IECEX	1SND162005A17*
	BR-Ex e II	1SND161042A02*
	UR Haz Loc	1SND161047A02*
	BV	1SND161073A02*
	RINA	1SND161088A02*
	DNV	1SND161087A02*
Atex Declaration	Atex Declaration	1SND225085C10*

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 are 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		17 mm	0.669 in					
Operating tool		Flat screwdriver						
Torque		6.5 mm 2.9 N.m ± 0.1 N.m	0.256 in 25.7 N.m ± 0.885 N.m					

Material Specifications

Insulating material	Polyamide
CTI	600 V
Flammability	UL94 V0
	NF F 16101 I2F2
	Needle flame test: C 60615-11-5
	Compliant

Connecting capacity per clamp

		Screw clamp			
1 Rigid - Solid / Stranded conductor	Norme				
	Value	6 ... 35 mm ²	10 ... 0 AWG		
1 Flexible conductor	Norme				
	Value	6 ... 35 mm ²			
1 Flexible conductor with non insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	4 ... 35 mm ²	10 ... 2 AWG		
1 Flexible conductor with insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	4 ... 35 mm ²	10 ... 2 AWG		
Gauge		A9-B9	10 mm		
		IEC 60947-1	0.394 in		
Ferrule maximum outer diameter or conductor insulation maximum outer diameter		Manufacturer data	14 mm	0.551 in	

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				
	Value	6 ... 16 mm²	10 ... 6 AWG		
2 Flexible conductors	Norme				
	Value	6 ... 16 mm²			
2 Flexible conductors with twin ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	4 ... 10 mm²	12 ... 8 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		35 mm²		0 AWG
Maximum Cross section	Manufacturer data	35 mm²	Manufacturer data	0 AWG

Electrical characteristics

Current

Rated current				125 A
	Field and factory wiring Cat.2		UL 1059	150 A
	Factory wiring Cat.1		UL 1059	150 A
			CSA-C-22.2 n°158	150 A
Maximum Exe current			IEC/EN 60079-7	125 A
Rated short-time withstand current 1 s (Icw)				4200 A
Short-time withstand current	0.5 s	Manufacturer data		8750 A
	5 s	Manufacturer data		2750 A
	10 s	Manufacturer data		1875 A
	30 s	Manufacturer data		1125 A
	1 min	Manufacturer data		750 A
Rated short-circuit withstand current			UL 1059	
Max. current (45° temperature increase) / Max. cross section (mm²)			Manufacturer data	125 A 35 mm²
Maximum short circuit current (1s)			Manufacturer data	4200 A

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR		UL 1059	100 kA
With the following configurations:			
Suitable conductor wire range			10 ... 0 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	

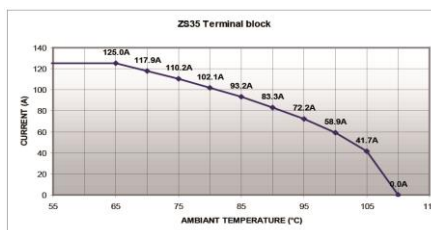
Voltage

Rated voltage	IEC 60947-1	1000 V
Rated voltage	UL 1059	600 V
Use Group	UL 1059	B, C
Rated voltage	CSA-C-22.2 n°158	600 V
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

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

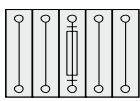
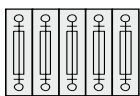
Current Derating curve for continuous service temperature



Dissipated power

Maximum dissipated power at rated current	IEC 60947-1	4 W
Maximum dissipated power at maximum Exe current	IEC 60079-7	

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	
Cold		Number of cycles (1 cycle = 24h)	2
	Conditions	IEC 60068-2 1	Compliant
		Temperature	-40 °C
Damp heat steady state		Duration of test	96 h
	Conditions	IEC 60068-2-78	
		Temperature	
		Relative humidity	
		Duration of test	

Corrosion

Salt mist	Conditions	IEC 60068-2 11	Compliant
		Duration of test	96 h
		Concentration	5 %
SO ₂		ISO 6988	Compliant
	Conditions	Duration of test	48 h
		Concentration	0.2 dm ³
Flowing mixed gas corrosion test		IEC 60068-2 60	
	Conditions	Number of the test method	
		Duration of test	

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Sinusoidal vibrations		IEC 60068-2-6	Compliant
	Conditions	Frequency range	10 ... 55 Hz
		Number of cycles	10
		Acceleration	10 m/s²
Functional random vibrations		IEC 61373	
Category 1 Class B 3 axes	Conditions	Duration of test	
		Frequency range	
		Acceleration	
Long life testing at increased random vibrations		IEC 61373	
Category 1 Class B 3 axes	Conditions	Duration of test	
		Frequency range	
		Acceleration	
Shock		IEC 61373	
Category 1 Class B 3 axes	Conditions	Duration of test	
		Acceleration	

Some accessories may modify the terminal block's rating. See complete information in the accessories catalog page.

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