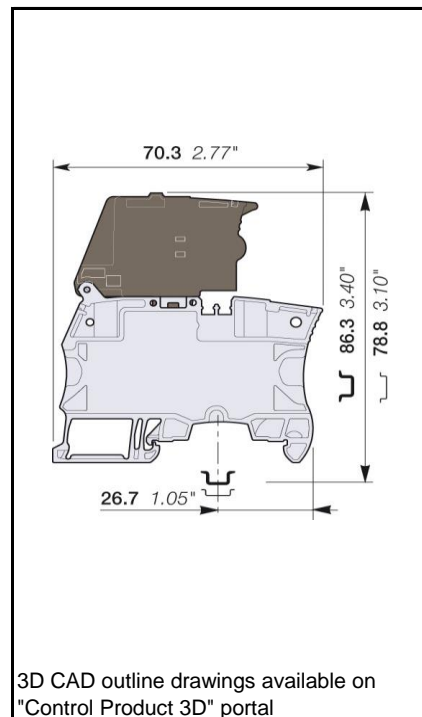
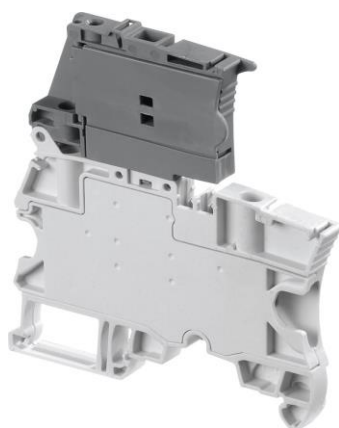




ZS4-SF Screw Clamp Terminal Blocks For 5 x 20 fuses

- Protect your circuits with 5x20 fuse terminal blocks compliant with IEC 60947-7-3 standard (fuse not supplied with the terminal blocks),
- Simplify the distribution thanks to the two jumper channels aligned with ZS4 feed-through and ZS4-S-R1 disconnect terminal blocks.



		4 mm ²
		10 AWG
6 mm 0.236 in Spacing		



Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight (1 pce) g
Grey, Dark Grey	ZS4-SF	1SNK506410R0000	3472595064106	50	18.60

Declarations and Certificates




		RoHS							
CE	CB	RoHS	UL US	UL US	UL US	UL US	UL US	UL US	UL US
		BV	Rina	DNV					

Declarations and Certificates

	CE	1SND225098C10*
	CB	1SND161029A02*
	RoHS	1SND230491F02*
	USR CNR	1SND161040A02*
	CSA	1SND161070A02*
	GOST R	1SND161005A11*
	BV	1SND161073A02*
	RINA	1SND161088A02*
	DNV	1SND161087A02*

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	IP20		NEMA 1				
Rail	TH35-7.5, TH35-15	TH35-7.5, TH35-15						
Wire stripping length		10.5 mm	0.413 in					
Operating tool		Flat screwdriver						
Torque		0.6 N.m ± 0.1 N.m	5.31 lb.in ± 0.885 lb.in					

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	IEC60947-7-3	UL1059		
	Value	0.2 ... 4 mm ²	24 ... 10 AWG		
1 Flexible conductor	Norme	IEC60947-7-3			
	Value	0.22 ... 4 mm ²			
1 Flexible conductor with non insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 4 mm ²	24 ... 12 AWG		
1 Flexible conductor with insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 4 mm ²	24 ... 12 AWG		
Gauge		A3-B3	3 mm		
		IEC 60947-1	0.118 in		
Ferrule maximum outer diameter or conductor insulation maximum outer diameter		Ø Max.	Manufacturer data	5.5 mm	0.216 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	IEC60947-7-3	UL1059		
	Value	0.2 ... 1.5 mm ²	24 ... 16 AWG		
2 Flexible conductors	Norme	IEC60947-7-3			
	Value	0.2 ... 1.5 mm ²			
2 Flexible conductors with twin ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 1.5 mm ²	24 ... 16 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	IEC60947-7-3	4 mm ²	UL1059	10 AWG
Maximum Cross section	Manufacturer data	4 mm ²	Manufacturer data	10 AWG

Electrical characteristics

Current

Rated current	IEC60947-7-3		6.3 A
	Field and factory wiring Cat.2		UL 1059 10 A
	Factory wiring Cat.1		UL 1059 10 A
	CSA-C-22.2 n°158		6.3 A
Maximum Exe current	IEC/EN 60079-7		
Rated short-time withstand current 1 s (I _{cw})	IEC60947-7-3		
Short-time withstand current	0.5 s	Manufacturer data	
	5 s	Manufacturer data	
	10 s	Manufacturer data	
	30 s	Manufacturer data	
	1 min	Manufacturer data	
Rated short-circuit withstand current	CSA-C-22.2 n°158		
Max. current (45° temperature increase) / Max. cross section (mm ²)	Manufacturer data		6.3 A 4 mm ²
Maximum short circuit current (1s)	Manufacturer data		

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR	UL 1059	
With the following configurations:		
Suitable conductor wire range		
Maximum voltage		
Fuse class / Max. amp. Rating	J	
	T	
	RK1	
	RK5	
	G	
	CC	

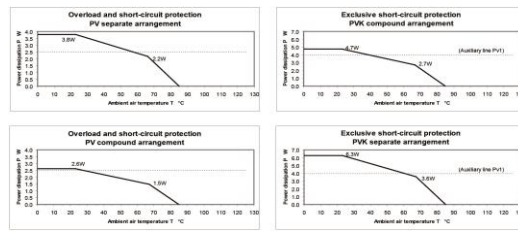
Voltage

Rated voltage	IEC 60947-1	500 V
Rated voltage	UL 1059	150 V
Use Group	UL 1059	A, B, C, D
Rated voltage	CSA-C-22.2 n°158	150 V
Rated voltage Ex e	IEC/ EN 60079-7	
Rated impulse withstand voltage	IEC 60947-1	6000 V
Dielectric test voltage	IEC 60947-1	1890 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

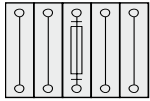
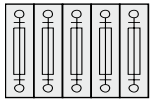
Current Derating curve for continuous service temperature



Dissipated power

Maximum dissipated power at rated current	IEC 60947-1
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	2.5
Separate arrangement / Exclusive short-circuit protection		4
Compound arrangement / Overload and short-circuit protection	 5 fuse blocks	2.5
Compound arrangement / Exclusive short-circuit protection		4

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
Damp heat steady state	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 %
SO2	Conditions	ISO 6988	Compliant
		Duration of test	48 h
		Concentration	0.2 dm ³
Flowing mixed gas corrosion test	Conditions	IEC 60068-2 60	
		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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