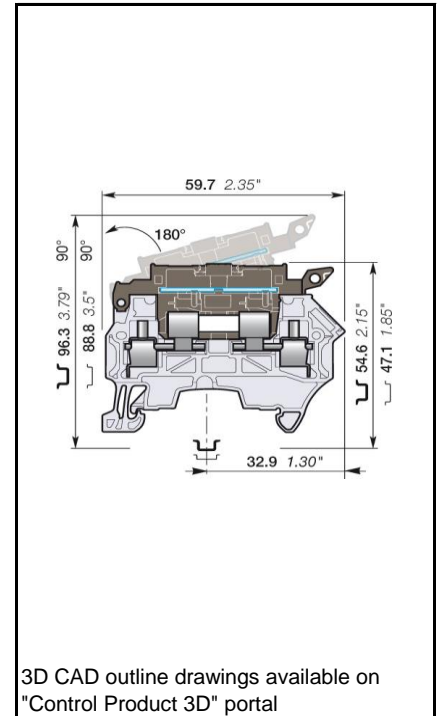
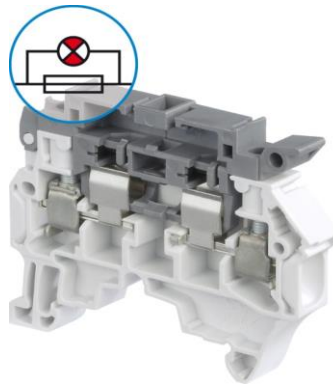


ZS4-SF1-R Screw Clamp Terminal Blocks For 5 x 20 and 5 x 25 fuses - with blown fuse indicator

- Protect your circuit with 5x25 and 5x20 fuse terminal blocks (fuse not supplied with the terminal blocks),
- Compliant with IEC 60947-7-3 standard,
- Quickly identify the defective circuit thanks to the blown fuse indicator (with leakage current < 0.5 mA).



		4 mm ²
		10 AWG
8 mm 0.315 in Spacing		










Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight (1 pce) g
Grey, Dark Grey	ZS4-SF1-R1	1SNK508412R0000	3472595084128	50	13.30
Grey, Dark Grey	ZS4-SF1-R3	1SNK508414R0000	3472599097247	50	13.30

Declarations and Certificates




CE	CB	RoHS	USR CNR			Gost R			
		BV	Fina	DNV					

Declarations and Certificates

	CE	1SND225098C10*
	CB	1SND161030A02*
	RoHS	1SND230491F02*
	USR CNR	1SND161040A02*
	CSA	1SND161070A02*
	GOST R	1SND161005A11*
	BV	1SND161073A02*
	RINA	1SND161088A02*
	DNV	1SND161087A02*

General Information

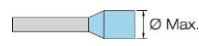
The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.

Protection	IEC 60947-1	IP20		NEMA 1			
Rail	TH35-7.5, TH35-15	TH35-7.5, TH35-15					
Wire stripping length		11 mm	0.433 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		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

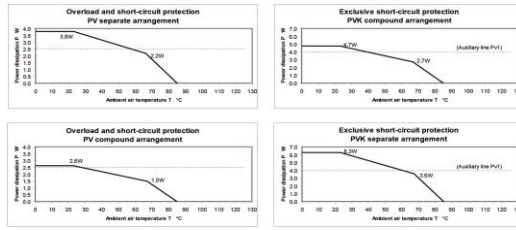
Voltage

Rated voltage	IEC 60947-1	630 V
Rated voltage	UL 1059	300 V
Use Group	UL 1059	B, C
Rated voltage	CSA-C-22.2 n°158	300 V
Rated voltage Ex e	IEC/ EN 60079-7	
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

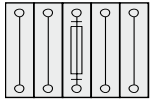
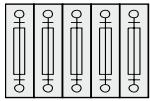
Current Derating curve for continuous service temperature



Dissipated power

Maximum dissipated power at rated current	IEC 60947-1
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		2.5
Separate arrangement / Exclusive short-circuit protection	1 fuse and 4 feed-through blocks	4
Compound arrangement / Overload and short-circuit protection		1.6
Compound arrangement / Exclusive short-circuit protection	5 fuse blocks	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 %
SO ₂	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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Vibrations and shocks

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

ZS4-SF1-R Terminal Block Accessories Compatibility

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

Description	Type	Order Code	Pack ^(ing) pieces	Weight g (1 pce)
1 End Stops	BAM3	1SNK900001R0000	50	13.80
	BAZ1	1SNK900002R0000	20	5.30
2 End Sections	ES4-SF	1SNK508960R0000	20	1.82
3 Lateral Jumper Bars	PC81-10	1SNA173523R1100	10	5.00
4 Fuses	FU520	1SNA008288R1500	10	
	FU520	1SNA008289R1600	10	
	FU520	1SNA008290R1300	10	
	FU520	1SNA008291R0000	10	
	FU520	1SNA008292R0100	10	
	FU525	1SNA167546R2200	10	
	FU525	1SNA167547R2300	10	
	FU525	1SNA167548R0400	10	
	FU525	1SNA167549R0500	10	
	FU525	1SNA167550R0200	10	
5 Assembly Rods	TGA8	1SNA168672R1100	10	1.00
	TGA8	1SNA168673R1200	10	
	TGA8	1SNA168674R1300	10	
6 Protecting Cover Kits	KCO	1SNK900624R0000	1	47.80
7 Protecting Covers	CO	1SNK900604R0000	1	300.00
8 Mounting Rails	PR3.G2	1SNA164800R0300	2	
	PR4	1SNA168500R1200	2	915.00
	PR5	1SNA168700R2200	2	
	PR30	1SNA173220R0500	2	328.00
	PR3.Z2	1SNA174300R1700	2	
9 Spring Retaining Rings	ANT	1SNA168675R1400	10	
10 Tools	PS-3	1SNK900650R0000	1	380.00
11 Terminal Block Markers	MC812	1SNK160000R0000	22	10.00
	MC812-YL	1SNK160004R0000	22	10.00
	MC812PA	1SNK169999R0000	20	14.00
	UMH	1SNK900611R0000	10	0.20
	PROCAP8	1SNK900613R0000	20	1.00
	SAT8	1SNK900616R0000	5	6.00
12 Screw Clamp Terminal Blocks	ZS4-SF1-R1	1SNK508412R0000	50	13.30

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