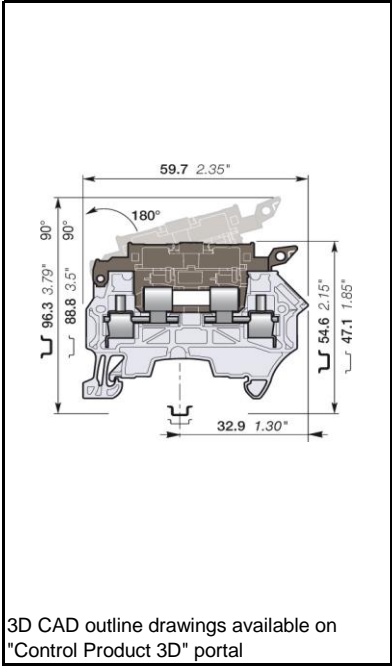




ZS4-SF1 Screw Clamp Terminal Blocks

For 5 x 20 and 5 x 25 fuses

Protect your circuit with 5x25 and 5x20 fuse terminal blocks, compliant with IEC 60947-7-3 standard (fuse not supplied with the terminal blocks).



		4 mm ²
		10 AWG
8 mm 0.315 in Spacing		










Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(mg)	Weight (1 pce) g
Grey, Dark Grey	ZS4-SF1	1SNK508410R0000	3472595084104	50	13.30

Declarations and Certificates



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



Declarations and Certificates

	CE	1SND225103U10*
	CB	1SND161030A02*
	RoHS	1SND230491F02*
	USR CNR	1SND161040A02*
	CSA	1SND161070A02*
	EAC	1SND161009A11*
	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		TH 35-7.5, TH 35-15						
Wire stripping length		11 mm	0.432 in					

		Screw clamp	Screw rail contact (Maximum value)	Disconnect device	
Operating tool		Flat screwdriver			
		3.5 mm	0.138 in		
Torque		0.6 N.m	5.31 N.m		
		± 0.1 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	0.2 ... 4 mm ²	24 ... 10 AWG	
1 Flexible conductor	Norme			
	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).

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Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded conductors	Norme				
	Value	0.2 ... 2.5 mm ²	24 ... 14 AWG		
2 Flexible conductors	Norme				
	Value	0.2 ... 2.5 mm ²			
2 Flexible conductors with twin ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 2.5 mm ²	24 ... 14 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		4 mm ²		10 AWG
Maximum Cross section	Manufacturer data	4 mm ²	Manufacturer data	10 AWG

Electrical characteristics

Current

Rated current				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 (Icw)				
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			UL 1059	
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	

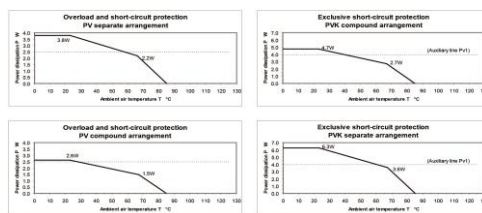
Voltage

Rated voltage	IEC 60947-1	630 V
Rated voltage	UL 1059	300 V
Use Group	UL 1059	B, C, D
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

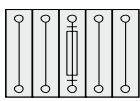
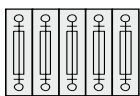
Current Derating curve for continuous service temperature



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	 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	1.6
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	
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	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	Conditions	IEC 60068-2-6	Compliant
		Frequency range	10 ... 55 Hz
		Number of cycles	10
		Acceleration	10 m/s ²
Functional random vibrations Category 1 Class B 3 axes	Conditions	IEC 61373	
		Duration of test	
		Frequency range	
		Acceleration	
Long life testing at increased random vibrations Category 1 Class B 3 axes	Conditions	IEC 61373	
		Duration of test	
		Frequency range	
		Acceleration	
Shock Category 1 Class B 3 axes	Conditions	IEC 61373	
		Duration of test	
		Acceleration	

ZS4-SF1 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 Terminal Block Markers	MG-CPM 13	1SNB041791R0612	1680	0.273	
	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	
2 Mounting Rails	PR3.G2	1SNA164800R0300	2	718.00	
	PR4	1SNA168500R1200	2	915.00	
	PR5	1SNA168700R2200	2	700	
	PR30	1SNA173220R0500	2	328.00	
	PR3.Z2	1SNA174300R1700	2	718.00	
3 End Sections	ES4-SF	1SNK508960R0000	20	1.80	
4 End Stops	BAM4	1SNK900001R0000	50	14.00	
	BAZ1	1SNK900002R0000	50	5.30	
5 Protecting Covers	CO	1SNK900604R0000	1	300.00	
6 Protecting Cover Kits	KCO	1SNK900624R0000	1	47.80	
7 Tools	PS-3	1SNK900650R0000	1	380.00	
8 Lateral Jumper Bars	PC81-10	1SNA173523R1100	10	5.00	
9 Fuses	FU520	1SNA008288R1500	10	2.00	
	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		
10 Assembly Rods	TGA8	1SNA168672R1100	10	1.00	
	TGA8	1SNA168673R1200	10	1.50	
	TGA8	1SNA168674R1300	10	2.00	
11 Spring Retaining Rings	ANT	1SNA168675R1400	10		

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