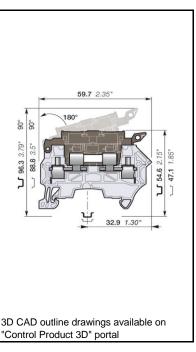
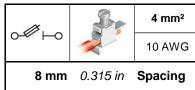
ZS4-SF1 Screw Clamp Terminal Blocks For 5 x 20 and 5 x 25 fuses

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







Ordering Details

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

Declarations and Certificates

	C €	CB	RoHS RoHS	c FLU us USR CNR		(5)	EAC		
-			(i) BV	(Pina	(iii)			-	

_					
Dec	larati	ons	and	Certific	cates

C€ □	CE	1SND225103U10*
<u></u> <u></u>	СВ	1SND161030A02*
RoHS RoHS	RoHS	1SND230491F02*
ua youn	USR CNR	1SND161040A02*
•	CSA	1SND161070A02*
EAC	EAC	1SND161009A11*
	D)/	4CNID4C4072A00*
RV	BV	1SND161073A02*
je Pins	RINA	1SND161088A02*
Disp.	DNV	1SND161087A02*

General Information

- Concrar information								
The following information must be	e strictly adhered	to in order to gua	arantee the termin	nal block electrica	al, mechanical ar	nd environmental	performance.	
Protection	IEC 60947-1	IP20		NEMA 1				
Rail	L	TH 35-7.5, TH	l 35-15					
Wire stripping length		11 mm	0.432 in					
		Screw clamp		Screw rail cor (Maximum val		Disconnect de	evice	
Operating tool		Flat screwdriv	er					
		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 EC 60615-11-5	Compliant

Connecting capacity per clan	np	Screw	clamp		
1 Rigid - Solid / Stranded conductor	Norme				
Rigid - Solid / Stranded conductor	Value	0.2 4 mm ²	24 10 AWG		
1 Flexible conductor	Norme				
1 Flexible conductor	Value	0.22 4 mm²			
1 Flexible conductor with non	Norme	Manufacturer data	Manufacturer data		
insulated ferrule	Value	0.22 4 mm²	24 12 AWG		
1 Flexible conductor with insulated	Norme	Manufacturer data	Manufacturer data		
ferrule	Value	0.22 4 mm ²	24 12 AWG		
Gauge		A3-B3	3 mm		
Gauge		IEC 60947-1	0.118 in		
Ferrule maximum outer diameter or con insulation maximum outer diameter	ductor	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	Norme			
conductors	Value	0.2 2.5 mm ²	24 14 AWG	
2 Flexible conductors	Norme			
2 Flexible colluctors	Value	0.2 2.5 mm ²		
2 Flexible conductors with twin	Norme	Manufacturer data	Manufacturer data	
ferrule	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 mm²		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 (mm²)			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	
		Т	
		RK1	
		RK5	
		G	
		CC	

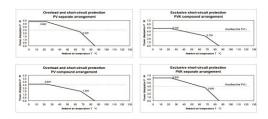
Voltage

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		2.5	
Separate arrangement / Exclusive short-circuit protection		4	
Compound arrangement / Overload and short-circuit protection	14141414141	1.6	
Compound arrangement / Exclusive short-circuit protection		4	

Environmental Characteristics Additional climatic tests

Dry heat		IEC 60068-2 2	Compliant
	Conditions	Temperature	+100 °C
		Duration of test	96 h
Cyclic damp heat		IEC 60068-2 30	Compliant
	Conditions	Temperature	+55 °C
		Relative humidity	
		Number of cycles (1 cycle = 24h)	2
Cold		IEC 60068-2 1	Compliant
	Conditions	Temperature	-40 °C
		Duration of test	96 h
Damp heat steady state		IEC 60068-2-78	
	Conditions	Temperature	
		Relative humidity	
		Duration of test	

Correcion

Corrosion			
Salt mist		IEC 60068-2 11	Compliant
	Conditions	Duration of test	96 h
		Concentration	5 %
SO2		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	

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.

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 Terminal Block Accessories Compatibility

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

Description	Туре	Order Code	Pack ^(ing)	Weight	
•	-		pieces	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	
J	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	СО	1SNK900604R0000	1	300.00	
6 Protecting Cover Kits	ксо	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		

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.

5