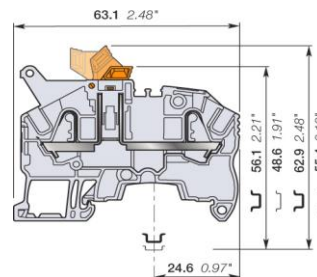




ZK2.5-S-R1 PI-Spring Terminal Blocks

Disconnect with blade

Simplify the distribution of circuits in marshalling cabinets thanks to our disconnect terminal blocks with the same profile as ZK2.5-SF fuse.



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

		2.5 mm ²
		12 AWG
6 mm 0.236 in Spacing		









Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(mg)	Weight (1 pce) g
Grey	ZK2.5-S-R1	1SNK706310R0000	3472597063107	50	8.90

Declarations and Certificates




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

Declarations and Certificates

	CE	1SND225104U10*
	CB	1SND162015A02*
	RoHS	1SND230535F02*
	USR CNR	1SND162012A02*
		1SND162012A02*
	CSA	1SND162014A02*
	EAC	1SND162001A11*
	BV	1SND162013A02*
	DNV	1SND162023A02*

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	0.433 in					
		Screw clamp		Screw rail contact (Maximum value)		Disconnect device		
Operating tool		Flat screwdriver						
		3.5 mm	0.138 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

		PI Spring			
1 Rigid - Solid / Stranded conductor	Norme	IEC60947-7-1	UL1059		
	Value	0.2 ... 4 mm ²	26 ... 12 AWG		
1 Flexible conductor	Norme	IEC60947-7-1			
	Value	0.22 ... 2.5 mm ²			
1 Flexible conductor with non insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 2.5 mm ²	26 ... 14 AWG		
1 Flexible conductor with insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 2.5 mm ²	26 ... 14 AWG		
Gauge		A2 / 2.3 mm Dia.			
		IEC 60947-1			
Ferrule maximum outer diameter or conductor insulation maximum outer diameter		Manufacturer data	5 mm	0.187 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				
2 Flexible conductors	Norme				
	Value				
2 Flexible conductors with twin ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 0.5 mm ²	26 ... 20 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	IEC60947-7-1	2.5 mm ²	UL1059	12 AWG
Maximum Cross section	Manufacturer data	4 mm ²	Manufacturer data	12 AWG

Electrical characteristics

Current

Rated current	IEC60947-7-1		20 A
	Field and factory wiring Cat.2		UL 1059
	Factory wiring Cat.1		UL 1059
	CSA-C-22.2 n°158		14 A
Maximum Exe current	IEC/EN 60079-7		
Rated short-time withstand current 1 s (I _{cw})	IEC60947-7-1		300 A
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		396 A
Max. current (45° temperature increase) / Max. cross section (mm ²)	Manufacturer data		4 mm ²
Maximum short circuit current (1s)	Manufacturer data		300 A

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	

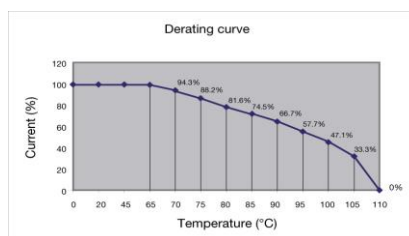
Voltage

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	6000 V
Dielectric test voltage	IEC 60947-1	
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

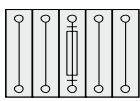
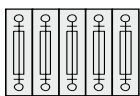
Current Derating curve for continuous service temperature



Dissipated power

Maximum dissipated power at rated current	IEC 60947-1	1.6 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	110 °C
		Duration of test	96 h
Cyclic damp heat	Conditions	IEC 60068-2 30	Compliant
		Temperature	55 °C
		Relative humidity	95 %
		Number of cycles (1 cycle = 24h)	2
Cold	Conditions	IEC 60068-2 1	Compliant
		Temperature	-55 °C
		Duration of test	96 h
Damp heat steady state	Conditions	IEC 60068-2-78	Compliant
		Temperature	40 °C
		Relative humidity	93 %
		Duration of test	96 h

Corrosion

Salt mist	Conditions	IEC 60068-2 11	Compliant
		Duration of test	1000 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	Compliant
		Number of the test method	3
		Duration of test	21 j

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Vibrations and shocks

Sinusoidal vibrations	Conditions	IEC 60068-2-6	Compliant
		Frequency range	5 ... 100 Hz
		Number of cycles	1
		Acceleration	7 m/s ²
Functional random vibrations Category 1 Class B 3 axes	Conditions	IEC 61373	Compliant
		Duration of test	20 mn
		Frequency range	5 ... 150 Hz
		Acceleration	1 m/s ²
Long life testing at increased random vibrations Category 1 Class B 3 axes	Conditions	IEC 61373	Compliant
		Duration of test	5 h
		Frequency range	5 ... 150 Hz
		Acceleration	5,7 m/s ²
Shock Category 1 Class B 3 axes	Conditions	IEC 61373	Compliant
		Duration of test	30 ms
		Acceleration	5 G

ZK2.5-S-R1 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	
	MC512	1SNK140000R0000	22	9.00	
	MC512-YL	1SNK140004R0000	22	9.00	
	MC512PA	1SNK149999R0000	20	10.00	
	MC612	1SNK150000R0000	22	10.00	
	MC612-YL	1SNK150004R0000	22	10.00	
	MC612PA	1SNK159999R0000	20	11.00	
	PROCAP5	1SNK900609R0000	20	0.70	
	UMH	1SNK900611R0000	10	0.20	
	PROCAP6	1SNK900612R0000	20	0.80	
	SAT6	1SNK900615R0000	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	
	PR50	1SNA178529R0400	2	1288.00	
3 End Sections	EK2.5-3P	1SNK705911R0000	20	2.40	
4 End Stops	BAM4	1SNK900001R0000	50	14.00	
	BAZ1	1SNK900002R0000	50	5.30	
	BAZH1	1SNK900102R0000	20	24.00	
5 Circuit Separators	CS-R3	1SNK900107R0000	20	6.40	
6 Test Connectors	TC5-R1	1SNK900201R0000	10	5.20	
7 Test Adapters	TP2	1SNK900203R0000	20	1.70	
	TP4	1SNK900205R0000	20	2.40	
8 Cross Spacing Jumpers	JB85-3	1SNK900603R0000	10	2.80	
9 Tools	PS-3	1SNK900650R0000	1	380.00	
		1SNK900659R0000			
10 Jumper Bars	JB5-2	1SNK905302R0000	50	1.30	
	JB5-3	1SNK905303R0000	50	2.00	
	JB6-2	1SNK906302R0000	50	1.30	
	JB6-3	1SNK906303R0000	50	2.10	
	JB6-4	1SNK906304R0000	50	2.90	
	JB6-5	1SNK906305R0000	50	3.60	
	JB6-10	1SNK906310R0000	20	7.40	
	JB6-50	1SNK906350R0000	10	38.10	
11 Spacers	ES-TC6	1SNK900105R0000	10	0.80	

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