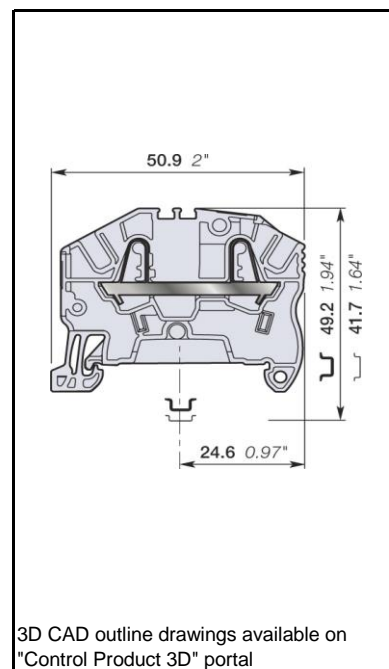




ZK2.5 PI-Spring Terminal Blocks Feed-through

Combine high performance
with compact dimensions:

- 1000 V AC / DC IEC 600 V
UL,

- Opt for the best marking
visibility thanks to the up-front,
flat marker zone, which lets you
mark up to eight digits or
increase the font size.



		2.5 mm²
		12 AWG
5.2 mm 0.205 in Spacing		












Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(mg)	Weight (1 pce) g
Grey	ZK2.5	1SNK705010R0000	3472597050107	50	5.50
Blue	ZK2.5-BL	1SNK705020R0000	3472597050206	50	5.50
Orange	ZK2.5-OR	1SNK705030R0000	3472597050305	50	5.50
Yellow	ZK2.5-YL	1SNK705060R0000	3472597050602	50	5.50
Green	ZK2.5-GN	1SNK705061R0000	3472597050619	50	5.50
Red	ZK2.5-RD	1SNK705062R0000	3472597050626	50	5.50
White	ZK2.5-WH	1SNK705065R0000	3472597050657	50	5.50
Black	ZK2.5-BK	1SNK705066R0000	3472597050664	50	5.50

Declarations and Certificates

CE	CB	RoHS	UL US	UL US	UL US	UL US	UL US	UL US	UL US
	Haz Loc	BV	DNV						ATEX Declaration

Declarations and Certificates




	CE	1SND225104U10*
	CB	1SND162016A02*
	RoHS	1SND230535F02*
	USR CNR	1SND162012A02*
		1SND162012A02*
	CSA	1SND162014A02*
	EAC Ex	
	ATEX	1SND162009A17*
	IECEX	1SND162010A17*
	USR CNR Haz Loc	1SND162024A02*
	BV	1SND162013A02*
	DNV	1SND162023A02*
Atex Declaration	Atex Declaration	1SND225085C10*

Explosive Atmosphere: ATEX Classification

Group Category	Protection Method
IM2 II 2 GD Ex eb I/II/IIIC	Ex e: increased security
In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D	

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	4.65 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		24 A
	Field and factory wiring Cat.2		UL 1059
	Factory wiring Cat.1		UL 1059
	CSA-C-22.2 n°158		20 A
Maximum Exe current	IEC/EN 60079-7		21 A
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		30 A 4 mm ²
Maximum short circuit current (1s)	Manufacturer data		300 A

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR	UL 1059	100 kA
With the following configurations:		
Suitable conductor wire range	14 ... 12 AWG	
Maximum voltage	600 V	
Fuse class / Max. amp. Rating	J	110 A
	T	110 A
	RK1	100 A
	RK5	30 A
	G	60 A
	CC	30 A

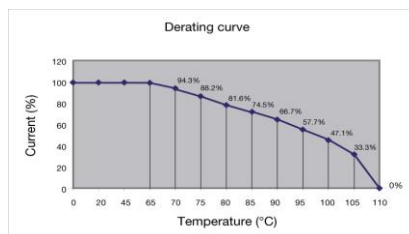
Voltage

Rated voltage	IEC 60947-1	1000 V
Rated voltage	UL 1059	600 V
Use Group	UL 1059	B, C, D
Rated voltage	CSA-C-22.2 n°158	600 V
Rated voltage Ex e	IEC/ EN 60079-7	693 V
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

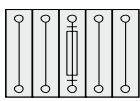
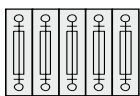
Current Derating curve for continuous service temperature



Dissipated power

Maximum dissipated power at rated current	IEC 60947-1	0.8 W
Maximum dissipated power at maximum Exe current	IEC 60079-7	0,7 W

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 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	1SNB041790R0512	1960	0.236
	MC512	1SNK140000R0000	22	9.00
	MC512-YL	1SNK140004R0000	22	9.00
	MC512PA	1SNK149999R0000	20	10.00
	PROCAP5	1SNK900609R0000	20	0.70
	UMH	1SNK900611R0000	10	0.20
	SAT5	1SNK900614R0000	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	1SNK705910R0000	20	1.80
4 End Stops	BAM4	1SNK900001R0000	50	14.00
	BAZ1	1SNK900002R0000	50	5.30
	BAZH1	1SNK900102R0000	20	24.00
5 Circuit Separators	CS-R1	1SNK900103R0000	20	5.20
	CS-R2	1SNK900106R0000	20	3.80
	CS-R3	1SNK900107R0000	20	6.40
6 Test Connectors	TC5	1SNK900200R0000	10	5.20
	TC5-R1	1SNK900201R0000	10	5.20
7 Test Adapters	TP2	1SNK900203R0000	20	1.70
	TP4	1SNK900205R0000	20	2.40
8 Component Plugs	PG5-R2	1SNK900403R0000	20	8.00
9 Shield Connectors	SHBP	1SNK900601R0000	20	4.10
10 Cross Spacing Jumpers	JB85-3	1SNK900603R0000	10	2.80
11 Tools	PS-3	1SNK900650R0000	1	380.00
		1SNK900659R0000		
12 Jumper Bars	JB5-2	1SNK905302R0000	50	1.30
	JB5-3	1SNK905303R0000	50	2.00
	JB5-4	1SNK905304R0000	50	2.70
	JB5-5	1SNK905305R0000	50	3.50
	JB5-10	1SNK905310R0000	30	7.10
	JB5-50	1SNK905350R0000	10	36.00

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