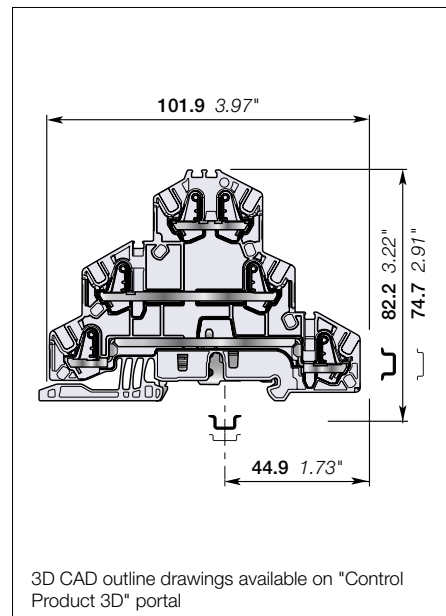
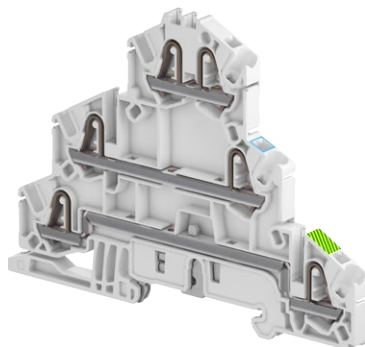


ZK2.5-L-N-PE PI-Spring terminal blocks

Triple deck with 2 feed-through circuits and 1 ground circuit

Combine high performance with compact dimensions:

- 500 V IEC 300 V UL,
- 2 feed through circuits, phase and neutral, and 1 ground circuit in just 5.2 mm 0.205 in spacing,
- 1 jumper channel and a large input and output marker zone on each deck,
- designed for easy wiring.



		4 mm²
		12 AWG
5.2 mm 0.205 in spacing		










Ordering details

Color	Type	Order code	EAN code	Pkg qty	Weight (1 pce)
Blue, grey, Green-yellow	ZK2.5-L-N-PE	1SNK705513R0000	3472599854208	25	21.38 g

Declarations and certificates

CE	UL CB	RoHS	UL US	CSA	EAC	ATEX	IECEx	BV			

Declarations and certificates




	UE	1SND225112U1002
	CB	1SND162026A0200
	RoHS	1SND230535F0202
	USRC CNR	1SND162012A0203
	CSA	1SND162014A0205
	EAC	1SND162001A1100
	ATEX	1SND162009A1702
	IECEx	1SND162010A1702
	BV	1SND162013A0203

Explosive atmosphere: ATEX classification

Group category	Protection method
IM2 II 2 GD Ex eb I/IC/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

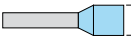
The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.

Protection	IEC 60947-1	IP20	NEMA 1	
Rail		TH 35-7.5, TH 35-15		
Wire stripping length		11 mm	0.433 in	
		PI-Spring connection	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
	Grey and dark grey color only NF F 16-101 I2F2
	Needle flame test IEC 60695-11-5 Compliant

Connecting capacity per clamp

		PI-Spring			
1 Rigid - Solid / Stranded conductor	Norme	IEC 60947-7-1	UL1059		
	Value	0.2 ... 4 mm²	26 ... 12 AWG		
1 Flexible conductor	Norme	IEC 60947-7-1			
	Value	0.22 ... 2.5 mm²			
1 Flexible conductor with non insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 2.5 mm²	26 ... 14 AWG		
1 Flexible conductor with insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 2.5 mm²	26 ... 14 AWG		
Gauge	Norme	IEC 60947-1			
	Value	A2 / 2.3 mm Dia.			
Ferrule maximum outer diameter or conductor insulation maximum outer diameter		Ø Max.	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 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	22 A	
	Field and factory wiring Cat.2	UL 1059	20 A	
	Factory wiring Cat.1	UL 1059		
		CSA-C-22.2 n° 158	20 A	
Maximum Exe current		IEC/EN 60079-7	20 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 mn	Manufacturer data		
Rated short-circuit withstand current		UL 1059	396 A	
Max. current (45° temperature increase) / Max. cross section (mm ²)		Manufacturer data	26 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	
With the following configurations:			
	Suitable conductor wire range		
	Maximum voltage		
	Fuse class / Max. amp. Rating	J	
		T	
		RK1	
		RK5	
		G	
		CC	

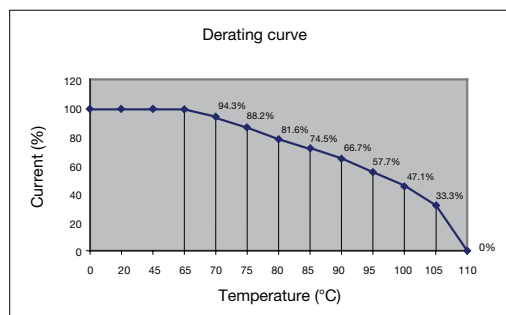
Voltage

Rated voltage	IEC 60947-1	500 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	440 V
Rated impulse withstand voltage	IEC 60947-1	8000 V
Dielectric test voltage	IEC 60947-1	2000 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

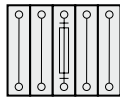
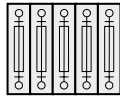
Current Derating curve for continuous service temperature



Dissipated power

Maximum dissipated power at rated current	IEC 60947-7-1	1.6 W
Maximum dissipated power at maximum Exe current	IEC 60079-7	1.4 W

Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3

Separate arrangement/ Overload and short-circuit protection		
Separate arrangement/ Exclusive short-circuit protection	1 fuse and 4 feed-through blocks	
Compound arrangement/ Overload and short-circuit protection		
Compound arrangement/ Exclusive short-circuit protection	5 fuse blocks	

Environmental characteristics

Additional climatic tests

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

Corrosion

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

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Vibrations and shocks

Sinusoidal vibrations		IEC 60068-2-6	Compliant
Conditions	Frequency range	5 ... 100 Hz	
	Number of cycles	1	
	Acceleration	7 m/s ²	
Functional random vibrations		IEC 61373	Compliant
Category 1 Class B 3 axes	Duration of test	20 mm	
	Frequency range	5 ... 150 Hz	
	Acceleration	1 m/s ²	
Long life testing at increased random vibrations		IEC 61373	Compliant
Category 1 Class B 3 axes	Duration of test	5 h	
	Frequency range	5 ... 150 Hz	
	Acceleration	5.7 m/s ²	
Shock		IEC 61373	Compliant
Category 1 Class B 3 axes	Duration of test	30 ms	
	Acceleration	5 G	

ZK2.5-L-N-PE terminal block accessories compatibility

Some accessories may modify the terminal block's rating. See complete information in the accessories "Technical Datasheet".

Description				Color	Type	Order code	Pkg qty	Weight (1 pos) g
1	End Stops	10 mm	0.394 in	Dark Grey	BAZH1	1SNK900102R0000	20	24.00
2	End Sections			Dark Grey	EK2.5-T3	1SNK705961R0000	20	4.76
3	Jumper Bars	2 poles	32 A (IEC)	Orange	JB5-2	1SNK905302R0000	50	1.30
		3 poles	32 A (IEC)		JB5-3	1SNK905303R0000	50	2.00
		4 poles	32 A (IEC)		JB5-4	1SNK905304R0000	50	2.70
		5 poles	32 A (IEC)		JB5-5	1SNK905305R0000	50	3.50
		10 poles	32 A (IEC)		JB5-10	1SNK905310R0000	30	7.10
		50 poles	32 A (IEC)		JB5-50	1SNK905350R0000	10	36.00
4	Test Adapters	For test plugs DIA 2 mm	0.079 in	Dark Grey	TP2	1SNK900203R0000	20	1.70
		For test plugs DIA 4 mm	0.157 in		TP4	1SNK900205R0000	20	2.40
5	Test Connectors	5.2 mm	0.205 in spacing	Dark Grey	TC5	1SNK900200R0000	10	5.20
		End module, 5.2 mm	0.205 in		TC5-R1	1SNK900201R0000	10	5.20
6	Label holders			Dark Grey	LH-J	1SNK900606R0000	100	0.73
7	Terminal Block Markers	Blank card		White	MC512	1SNK140000R0000	22	9.00
					MC512PA	1SNK149999R0000	20	10.00
		Universal wire markers holder		Grey	UMH	1SNK900611R0000	10	0.20
		Blank marker		White	MG-CPM 13 41790	1SNB041790R0512	1960	0.23

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