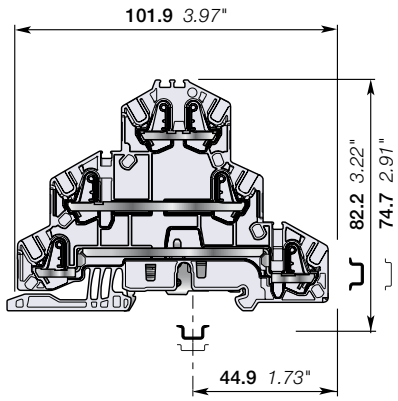
ZK2.5-L-L-PE PI-Spring terminal blocks
Triple deck with 2 feed-through circuits and 1 ground circuit

Combine high performance with compact dimensions:
- 500V IEC 300 V UL,
- 2 feed through circuits 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.





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




4 mm²
12 AWG

5.2 mm *0.205 in* spacing

Ordering details

Color	Type	Order code	EAN code	Pkg qty	Weight (1 pce) g
Grey, Green-yellow	ZK2.5-L-L-PE	1SNK705512R0000	3472599854215	25	21.38

Declarations and certificates

CE · CB · RoHS · USR CNR · CSA · EAC · ATEX · IECEx · BV

Declarations and certificates

		Document Part Number
CE	UE	1SND225112U1002
CB	CB	1SND162026A0200
RoHS	RoHS	1SND230535F0202
USR CNR	USR CNR	1SND162012A0203
CSA	CSA	1SND162014A0205
EAC	EAC	1SND162001A1100
ATEX	ATEX	1SND162009A1702
IECEx	IECEx	1SND162010A1702
BV	BV	1SND162013A0203

Explosive atmosphere: ATEX classification

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

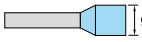
Protection	IEC 60947-1	IP20	*NEMA 1*				
Rail		TH 35-7.5, TH 35-15					
Wire stripping length		11 mm	*0.433 in*				

		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).

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 Flexible conductors with twin ferrule	Norme	Manufacturer data	*Manufacturer data*		
	Value	0.22 ... 0.5 mm²	*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 mm²	*UL1059*	*12 AWG*
Maximum cross section	Manufacturer data	4 mm²	*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 (Icw)		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 (mm²)		Manufacturer data	26 A	4 mm²
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

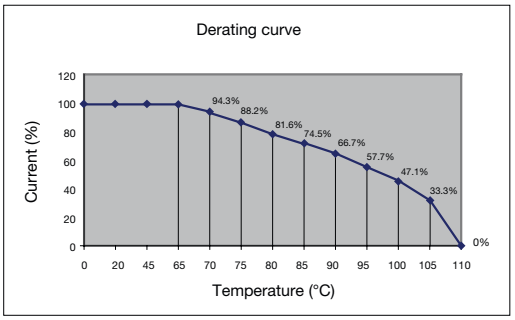
Rated voltage	IEC 60947-1	500 V
Rated voltage	UL 1059	300 V
Use Group	UL 1059	B,C,D
Rated voltage	CSA-C-22.2 n° 158	300 V
Rated voltage Ex e	IEC/EN 60079-7	440 V
Rated impulse withstand voltage	IEC 60947-1	8000 V
Dielectric test voltage	IEC 60947-1	2000 V
Pollution degree	IEC 60947-1	3
Overvoltage category	IEC 60947-1	III

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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*

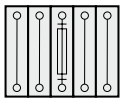
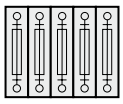
Current Derating curve for continuous service temperature



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/s²
Functional random vibrations		IEC 61373	Compliant
Category 1 Class B 3 axes	Conditions	Duration of test	20 mm
		Frequency range	5 ... 150 Hz
		Acceleration	1 m/s²
Long life testing at increased random vibrations		IEC 61373	Compliant
Category 1 Class B 3 axes	Conditions	Duration of test	5 h
		Frequency range	5 ... 150 Hz
		Acceleration	5.7 m/s²
Shock		IEC 61373	Compliant
Category 1 Class B 3 axes	Conditions	Duration of test	30 ms
		Acceleration	5 G

ZK2.5-L-L-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 pce) 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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Contact us

ABB France
Electrification Products Division
Low voltage Products and systems
3, rue Jean Perrin
F-69687 Chassieu cedex / France

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