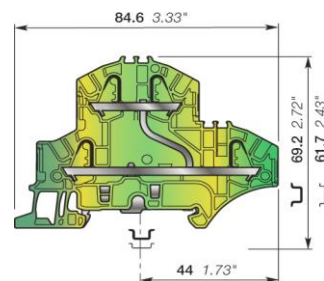
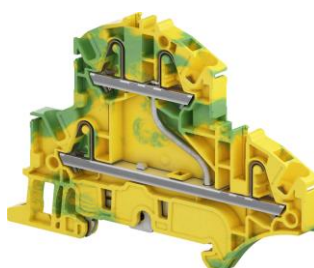


ZK2.5-D1-PE PI-Spring Terminal Blocks

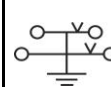
Double deck with 1 ground circuit

Improve the safety of your installation in the event of a short-circuit thanks to our screwless rail contact:

- Rail contact non operator dependent,
- Performances above the requirements of the IEC 60947-7-2 terminal block standard,
- Secured snap on or off the rail,
- Profile aligned with ZK2.5-D2.



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




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
Green-Yellow 	ZK2.5-D1-PE	1SNK705250R0000	3472597052507	20	15.70

Declarations and Certificates

 CE	 CB	 RoHS	 UL US USR CNR		 EAC Ex	 ATEX	 IECEx	
	 UL US Haz Loc	 BV		 DNV		ATEX Declaration		

Declarations and Certificates




	CE	1SND225105U10*
	CB	1SND162021A02*
	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/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					
		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	IEC60947-7-2	UL1059		
	Value	0.2 ... 4 mm ²	26 ... 12 AWG		
1 Flexible conductor	Norme	IEC60947-7-2			
	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).

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 conductors	Norme				
	Value				
2 Flexible conductors	Norme				
	Value				
2 Flexible conductors with twin ferrule	Norme				
	Value				

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	IEC60947-7-2	2.5 mm ²	UL1059	12 AWG
Maximum Cross section	Manufacturer data	4 mm ²	Manufacturer data	12 AWG

Electrical characteristics

Current

Rated current	IEC60947-7-2		
	Field and factory wiring Cat.2		UL 1059
	Factory wiring Cat.1		UL 1059
			CSA-C-22.2 n°158
Maximum Exe current	IEC/EN 60079-7		
Rated short-time withstand current 1 s (I _{cw})	IEC60947-7-2		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	
Rated voltage	UL 1059	
Use Group	UL 1059	B, C, D
Rated voltage	CSA-C-22.2 n°158	
Rated voltage Ex e	IEC/ EN 60079-7	
Rated impulse withstand voltage	IEC 60947-1	8000 V
Dielectric test voltage	IEC 60947-1	
Pollution degree	IEC 60947-1	3
Overvoltage category	IEC 60947-1	III

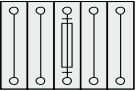
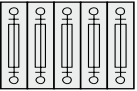
Temperature range

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

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	 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		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 %
SO ₂		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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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 mn
		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

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

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