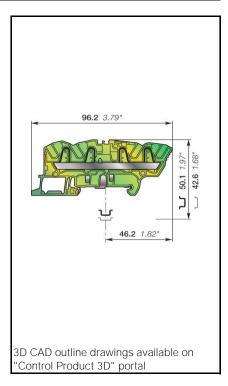
Technical Datasheet 1SNK162028D0201 Catalogue Page 1SNK162044S0201

ZK4-PE-4P PI-Spring Terminal Blocks Ground with 4 connections

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 ZK4-4P.





001 4 00	PI-Spring	4 mm²
=	Terminal Blocks	10 AWG
6 mm	0.236 in	Spacing

Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce) g
Green-yellow	ZK4-PE-4P	1SNK706152R0000	3472597061523	20	18.4
·					

Declarations and Certificates

CE CE	CB	RoHS RoHS	c SU us USR CNR	(3)	Gost R	€x ATEX	IECEx IECEx	
		(O) BV			ATEX Declaration			



Declarations and Ce	CE					1	SNIC	22515	1C10*		
IEC utu	CB				1SND225151C10* 1SND162017A02*						
RoHS	RoHs				1SND230535F02*						
RoHS c 91\u s USR CNR	USR CI	NR			1SND162012A02*						
USR CNR	0011 01	***				·	0110	7102017	2, 102		
®	CSA					1	SND	16201	4A02*		
Gost R	GOST I	R						16100			
Gost H (Ex) ATEX	ATEX							16200			
IECEX	IECEx							16201			
® BV	BV					1	SND	16201	3A02*		
Atex Declaration) \(\lambda + \cdot \	eclaration				1	CNID	22508!	5010*		
Alex Declaration	i Atex De	<u>eciaration</u>				l	SINL	122508	5010		
Explosive Atmos	snhere ATEV	' Classific	ration								
Group Category	ρησισ. ΑΤΔΛ	. Ciassiil	ZatiOH		Protectio	n Method					
IM2 II 2 GD Ex eb I/IIC	C/IIIC				Ex e: incr	eased security	/				
In the presence of exp	 plosive dust atm	osphere, ter	minal blocks are	to be	installed i	n certified enc	losure	II 2D			
General Information											
he following information must	be strictly adhered	to in order to	guarantee the term	inal blo	ck electrica	al, mechanical ar	nd envi	ronmental	performan	ce.	
rotection	IEC 60947-1	IP20	NEMA250								
ail		TH 35-7.5,									
		TH 35-15									
Vire stripping length		12.5 mm	0.492 in								
		Screw clam	np		w rail con		Disco	onnect d	evice		
				(IVIax	imum val	ue)					
Operating tool		Flat screwo	driver						1		
		3.5 mm	0.138 in								
orauo											
orque											
Naterial Specification	ne								•		
	ons		1					Polyamic	de		
nsulating material	ons							Polyamio 600 V	de		
sulating material	ons					-		600 V	de		
nsulating material	ons	_				NF F 1	JL94	600 V	de		
nsulating material	ons						JL94	600 V V0	de		
nsulating material	ons			Nee	edle flame		JL94 6101	600 V V0 I2F2			
nsulating material	ons			Nee	edle flame	NF F 1	JL94 6101	600 V V0 I2F2			
nsulating material ETI Iammability				Nee PI Sp		NF F 1	JL94 6101	600 V V0 I2F2			
nsulating material TI Iammability Connecting capacity	y per clamp	Norme	IEC60947-7-:	PI Sp	oring	NF F 1	JL94 6101	600 V V0 I2F2			
nsulating material ETI Iammability Connecting capacity	y per clamp	Norme Value	IEC60947-7- 0.5 6 mm ²	PI Sp	oring U	NF F 1	JL94 6101	600 V V0 I2F2			
nsulating material TI Iammability Connecting capacity Rigid - Solid / Stranded of	y per clamp		0.5 6 mm ²	PI Sp 2 2	oring U	NF F 1 test:C 60615- L1059	JL94 6101	600 V V0 I2F2			
nsulating material TI Iammability Connecting capacity Rigid - Solid / Stranded of	y per clamp	Value	0.5 6 mm ² IEC60947-7- 0.5 4 mm ²	PI Sp	oring U 26	NF F 1 test C 60615- L1059 . 10 AWG	JL94 6101	600 V V0 I2F2			
nsulating material TI Iammability Connecting capacity Rigid - Solid / Stranded of Flexible conductor Flexible conductor with r	y per clamp conductor ——	Value Norme Value Norme	0.5 6 mm ² IEC60947-7- 0.5 4 mm ² Manufacturer d	PI Sp 2 2 2 2 ata	oring U 26 Manufa	NF F 1 test C 60615- L1059 . 10 AWG	JL94 6101	600 V V0 I2F2			
nsulating material TI Iammability Connecting capacity Rigid - Solid / Stranded of Flexible conductor Flexible conductor with r	y per clamp conductor ——	Value Norme Value Norme Value Value	0.5 6 mm ² IEC60947-7- 0.5 4 mm ² Manufacturer d 0.5 4 mm ²	PI Sp 2 2 2 2 ata	oring U 26 Manufa 26	NF F 1 test C 60615- L1059 . 10 AWG acturer data . 12 AWG	JL94 6101	600 V V0 I2F2			
Connecting capacity Rigid - Solid / Stranded of Flexible conductor Flexible conductor with resultated ferrule Flexible conductor with it	y per clamp conductor ————————————————————————————————————	Value Norme Value Norme Value Norme	0.5 6 mm ² IEC60947-7-2 0.5 4 mm ² Manufacturer d 0.5 4 mm ² Manufacturer d	PI Sp 2 2 2 2 ata	Manufa Manufa Manufa	NF F 1 test C 60615- L1059 . 10 AWG acturer data . 12 AWG acturer data	JL94 6101	600 V V0 I2F2			
nsulating material TI Iammability Connecting capacity Rigid - Solid / Stranded of Flexible conductor Flexible conductor with resulated ferrule Flexible conductor with i	y per clamp conductor ————————————————————————————————————	Value Norme Value Norme Value Value	0.5 6 mm ² IEC60947-7- 0.5 4 mm ² Manufacturer d 0.5 4 mm ²	PI Sp 2 2 2 2 ata	Manufa 26 Manufa 26 Manufa 26	NF F 1 test C 60615- L1059 . 10 AWG acturer data . 12 AWG acturer data . 12 AWG	JL94 6101	600 V V0 I2F2			
Connecting capacity Rigid - Solid / Stranded of Flexible conductor Flexible conductor with resulated ferrule Flexible conductor with iterrule	y per clamp conductor ————————————————————————————————————	Value Norme Value Norme Value Norme	0.5 6 mm ² IEC60947-7- 0.5 4 mm ² Manufacturer d 0.5 4 mm ² Manufacturer d 0.5 4 mm ²	PI Sp	Manufa 26 Manufa 26 Manufa 26	NF F 1 test C 60615- L1059 . 10 AWG acturer data . 12 AWG acturer data	JL94 6101	600 V V0 I2F2			
Material Specifications usuating material CTI Flammability Connecting capacity Rigid - Solid / Stranded of Strand	y per clamp conductor non nsulated	Value Norme Value Norme Value Norme Value Norme Value	0.5 6 mm ² IEC60947-7-2 0.5 4 mm ² Manufacturer d 0.5 4 mm ² Manufacturer d	PI Sp	Manufa 26 Manufa 26 Manufa 26	NF F 1 test C 60615- L1059 . 10 AWG acturer data . 12 AWG acturer data . 12 AWG	JL94 6101	600 V V0 I2F2			

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm²).

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insulation maximum outer diameter

Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded	Norme		
conductors	Value		
2 Flexible conductors	Norme		
2 Flexible colludations	Value		
2 Flexible conductors with twin	Norme		
ferrule	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	4 mm²	UL1059	10 AWG
Maximum Cross section	Manufacturer data	6 mm ²	Manufacturer data	10 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 (Icw)			IEC60947-7-2	480 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			CSA-C-22.2 n°158		
Max. current (45° temperature increase) / Max	cross section (mm²)		Manufacturer data		6 mm ²
Maximum short circuit current (1s)			Manufacturer data	480 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	
		Т	
		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	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

Dissipated power

Maximum dissipated power at rated current		IEC 6094	7-1
Maximum dissipated power at maximum Exe current		IEC 6007	9-7
Rated power dissipation at an ambient ten	nperature of 23 °C - IEC 60947-7-	-3	
Separate arrangement / Overload and short-circuit protection			
Separate arrangement / Exclusive short-circuit protection	[5	
Compound arrangement / Overload and short-circuit protection			
Compound arrangement / Exclusive short-circuit protection	[\frac{\frac{1}{3}}{3}\frac{1}{3}\frac{1}{3}}{5}\frac{1}{3}\frac{1}{3}}		

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	Conditions	Duration of test 20 mn
		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	Conditions	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	Conditions	Duration of test 30 ms
		Acceleration 5 G

ZK4-PE-4P Terminal Block Accessories Compatibility

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

	Description	Туре	Order Code	Pack ^(ing)	Weight	
				pieces	g (1 pce)	
1	End Stops	BAM3	1SNK900001R0000	50	13.80	
	·	BAZ1	1SNK900002R0000	20	5.30	
		BAZH1	1SNK900102R0000	20	23.90	
2	End Sections	EK2.5-4P	1SNK705912R0000	20	2.7	
3	Jumper Bars	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	
4	Circuit Separators	CS-R3	1SNK900107R0000	20	6.4	
5	Test Adapters	TP2	1SNK900203R0000	20	1.73	
		TP4	1SNK900205R0000	20	2.41	
6	Test Connectors	TC5-R1	1SNK900201R0000	10	5.23	
7	Spacers	ES-TC6	1SNK900105R0000	10	0.80	
8	Mounting Rails	PR3.G2	1SNA164800R0300	2		
		PR4	1SNA168500R1200	2	915.00	
		PR5	1SNA168700R2200	2		
		PR30	1SNA173220R0500	2	328.00	
		PR3.Z2	1SNA174300R1700	2		
		PR50	1SNA178529R0400	2	1 288.00	
9	Tools	PS-3	1SNK900650R0000	1	380.00	
10	Terminal Block Markers	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	0.69	
		UMH	1SNK900611R0000	10	0.20	
		PROCAP6	1SNK900612R0000	20	0.78	
		SAT6	1SNK900615R0000	5	6.00	

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Contact us

ABB France Low Voltage Products Division Export Department 10, rue Ampère Z.I. - B.P. 114 F-69685 Chassieu cedex / France Tel. +33 (0)4 7222 1722 Fax +33 (0)4 7222 1935

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