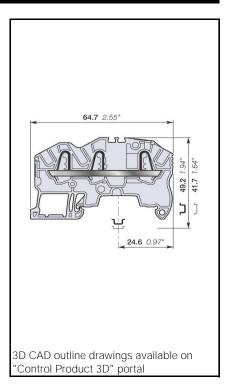
Technical Datasheet 1SNK162019D0201 Catalogue Page 1SNK162024S0201

# ZK2.5-3P PI-Spring Terminal Blocks Feed-through with 3 connections

Find all the features of the ZK2.5 terminal block with the added option of distributing or branching 3 conductors.





00 VV 0	PI-Spring Terminal Blocks	2.5 mm <sup>2</sup>
00 ***	Terminal Blocks	12 AWG
5.2 mm	0.205 in	Spacing

**Ordering Details** 

Color	Type	Order Code	EAN Code	Pack <sup>(ing)</sup>	Weight
					(1 pce) g
Grey	ZK2.5-3P	1SNK705011R0000	3472597050114	50	7.4
Blue	ZK2.5-3P-BL	1SNK705021R0000	3472597050213	50	7.4
Orange	ZK2.5-3P-OR	1SNK705031R0000	3472597050312	50	7.4
Yellow	ZK2.5-3P-YL	1SNK705067R0000	3472597050671	50	7.4
Green	ZK2.5-3P-GN	1SNK705068R0000	3472597050688	50	7.4
Red	ZK2.5-3P-RD	1SNK705069R0000	3472597050695	50	7.4
Black	ZK2.5-3P-BK	1SNK705073R0000	3472597050732	50	7.4
White	ZK2.5-3P-WH	1SNK705072R0000	3472597050725	50	7.4

### **Declarations and Certificates**

<b>C</b> €	CB	RoHS RoHS	c <b>SU</b> us USR CNR		Gost R	<b>€x</b> ATEX	IECEx IECEx	
		(O) BV			ATEX Declaration	_		



	rtificates CE					1	SNIC	)22515	0C10*		
CE IEC IEU	CB				1SND225150C10* 1SND162016A02*						
RoHS	RoHs				1SND230535F02*						
RoHS  c TAX us  USR CNR	USR C	NR			1SND162012A02*						
USH CNR	0011 0	111				<u> </u>		710201	2,102		
<b>①</b>	CSA					1	ISNE	16201	4A02*		
© Gost R	GOST	R						16100			
Ex ATEX	ATEX							16200			
IECEX IECEX	IECEx							16201			
BV	BV					1	ISNE	16201	3A02*		
Atex Declaration	Λτον Π	eclaration	1			1	SNIC	22508	5010*		
WIEV DECIGIATION	AIEX D	cciai atiUl	<u> </u>			<u> </u>	JINL	122300	JC 10		
Explosive Atmos	phere: ATF>	( Classifi	cation								
Group Category	p 121 21 7 11 E/	2.2.00.11			Protectio	n Method					
1, 40, 11, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	////										
IM2 II 2 GD Ex eb I/IIC.	/IIIC				Ex e: Incr	eased security	/				
In the presence of exp	losive dust atm	osphere, te	rminal blocks are	to be	installed i	n certified enc	losure	II 2D			
-											
General Information											
he following information must I	_			ninal blo	ock electric	al, mechanical ar	nd envi	ronmenta	l performai	nce.	
Protection	IEC 60947-1		NEMA250								
Rail		TH 35-7.5,									
Viro otrippina lan		TH 35-15	0.422.1	-							
Vire stripping length		11 mm	0.433 in								
		Screw clar	nn	Soro	w rail cor	tact	Disco	onnect d	evice		
		SCIEW CIAI	ייף	- 1	kimum val		טוטנו	JIIIIECI U	CVICE		
Operating tool		Flat screw	driver	(		/					
- F 2.44											
		3.5 mm	0.138 in								
orque											
•											
	1	1	L	1		IL.	1		1		
Material Specificatio	ns										
material opeemieatie								Polyami	de		
nsulating material								600 V			
nsulating material											
nsulating material		_					JL94	V0			
		_				NF F 1	JL94				
nsulating material		_ _ _				NF F 1	JL94 6101	V0 I2F2			
nsulating material		- - -		Nee	edle flame		JL94 6101	V0 I2F2	nt		
nsulating material CTI Tammability	un on olores	- - -				NF F 1	JL94 6101	V0 I2F2	nt		
nsulating material CTI Iammability	per clamp	Norma	IEO(10017-7-1	PI S <sub>I</sub>	pring	NF F 1	JL94 6101	V0 I2F2	nt		
nsulating material CTI Iammability Connecting capacity		Norme	IEC60947-7-1	PI S <sub>I</sub>	oring L	NF F 1 test:C 60615- IL1059	JL94 6101	V0 I2F2	nt		
nsulating material CTI Iammability Connecting capacity		Value	0.2 4 mm <sup>2</sup>	PI S <sub>I</sub>	oring L	NF F 1	JL94 6101	V0 I2F2	nt		
nsulating material ITI Iammability  Connecting capacity Rigid - Solid / Stranded c		Value Norme	0.2 4 mm <sup>2</sup> IEC60947-7-1	PI S <sub>I</sub>	oring L	NF F 1 test:C 60615- IL1059	JL94 6101	V0 I2F2	nt		
nsulating material CTI Clammability  Connecting capacity Rigid - Solid / Stranded c  Flexible conductor	onductor —	Value Norme Value	0.2 4 mm <sup>2</sup> IEC60947-7-1 0.22 2.5 mr	PI S <sub>I</sub> 1  1  1  1  1	oring L 26	NF F 1 test C 60615- JL1059 . 12 AWG	JL94 6101	V0 I2F2	nt		
nsulating material TI Iammability  Connecting capacity Rigid - Solid / Stranded c  Flexible conductor  Flexible conductor with ne	onductor —	Value Norme Value Norme	0.2 4 mm <sup>2</sup> IEC60947-7-1 0.22 2.5 mr Manufacturer d	PI S <sub>I</sub> I  m <sup>2</sup> ata	oring L 26 Manuf	NF F 1 test C 60615- IL1059 . 12 AWG	JL94 6101	V0 I2F2	nt		
nsulating material TI Iammability  Connecting capacity Rigid - Solid / Stranded c Flexible conductor Flexible conductor with no	onductor	Value Norme Value Norme Value	0.2 4 mm <sup>2</sup> IEC60947-7-1 0.22 2.5 mr Manufacturer d 0.22 2.5 mr	PI S <sub>I</sub> I  m <sup>2</sup> ata  m <sup>2</sup>	oring L 26 Manuf 26	NF F 1 test:C 60615- IL1059 . 12 AWG acturer data . 14 AWG	JL94 6101	V0 I2F2	nt		
nsulating material CTI Iammability  Connecting capacity Rigid - Solid / Stranded c Flexible conductor Flexible conductor with nonsulated ferrule Flexible conductor with in	onductor	Value Norme Value Norme Value Norme	0.2 4 mm <sup>2</sup> IEC60947-7-1 0.22 2.5 mr Manufacturer d 0.22 2.5 mr Manufacturer d	PI S <sub>I</sub> I  I  m²  ata  m²  ata	oring L 26 Manuf 26 Manuf	NF F 1 test.C 60615- IL1059 . 12 AWG acturer data . 14 AWG acturer data	JL94 6101	V0 I2F2	nt		
nsulating material TI Iammability  Connecting capacity Rigid - Solid / Stranded c Flexible conductor Flexible conductor with nonsulated ferrule Flexible conductor with in	onductor	Value Norme Value Norme Value	0.2 4 mm <sup>2</sup> IEC60947-7-1 0.22 2.5 mr Manufacturer d 0.22 2.5 mr	PI S <sub>I</sub> I  I  m²  ata  m²  ata	Manuf. 26 Manuf. 26	NF F 1 test C 60615- L1059 . 12 AWG acturer data . 14 AWG acturer data . 14 AWG	JL94 6101	V0 I2F2	nt		
nsulating material CTI CTI Clammability Connecting capacity Rigid - Solid / Stranded c	onductor	Value Norme Value Norme Value Norme	0.2 4 mm <sup>2</sup> IEC60947-7-1 0.22 2.5 mr Manufacturer d 0.22 2.5 mr Manufacturer d	PI S <sub>I</sub> I  m²  ata  m²  ata  m²	Manuf. 26 Manuf. 26	NF F 1 test.C 60615- IL1059 . 12 AWG acturer data . 14 AWG acturer data	JL94 6101	V0 I2F2	nt		

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.

insulation maximum outer diameter

Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded	Norme			
conductors	Value			
2 Flexible conductors	Norme			
2 Flexible colludctors	Value			
2 Flexible conductors with twin	Norme	Manufacturer data	Manufacturer data	
ferrule	Value	0.22 0.5 mm <sup>2</sup>	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 <sup>2</sup>	UL1059	12 AWG
Maximum Cross section	Manufacturer data	4 mm <sup>2</sup>	Manufacturer data	12 AWG

### Electrical characteristics Current

Rated current			IEC60947-7-1	24 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	21 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 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	30 A	4 mm <sup>2</sup>
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

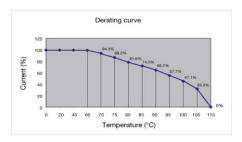
### Voltage

$\mathbf{J}$		
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	630 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

riated perior diserpation at an arribio	711 tomporataro di 20 di 120 de 117 7 di	
Separate arrangement / Overload and short-circuit protection		
Separate arrangement / Exclusive short-circuit protection		
Compound arrangement / Overload and short-circuit protection		
Compound arrangement / Exclusive short-circuit protection		

### **Environmental Characteristics** Additional climatic tests

Dry heat	IEC 60068-2 2 Comp	
	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 <sup>3</sup>
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 <sup>2</sup>
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 <sup>2</sup>
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 <sup>2</sup>
Shock		IEC 61373 Compliant
Category 1 Class B 3 axes	Conditions	Duration of test 30 ms
		Acceleration 5 G

### ZK2.5-3P Terminal Block Accessories Compatibility

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

Description	Туре	Order Code	Pack <sup>(ing)</sup>	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	EK2.5-3P	1SNK705911R0000	20	2.4	
3 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	36.10	
4 Cross Spacing Jumpers	JB85-3	1SNK900603R0000	10	2.80	
5 Circuit Separators	CS-R3	1SNK900107R0000	20	6.4	
6 Test Adapters	TP2	1SNK900203R0000	20	1.73	
	TP4	1SNK900205R0000	20	2.41	
7 Test Connectors	TC5	1SNK900200R0000	10	5.23	
	TC5-R1	1SNK900201R0000	10	5.23	
8 Component Plugs	PG5-R2	1SNK900403R0000	20	8.01	
9 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	
10 Tools	PS-3	1SNK900650R0000	1	380.00	
11 Terminal Block Markers	MC512	1SNK140000R0000	22	9.00	
	MC512-YL	1SNK140004R0000	22	9.00	
	MC512PA	1SNK149999R0000	20	10.00	
	PROCAP5	1SNK900609R0000	20	0.69	
	UMH	1SNK900611R0000	10	0.20	
	SAT5	1SNK900614R0000	5	6.00	

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