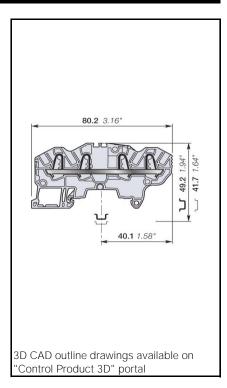
Technical Datasheet 1SNK162021D0201 Catalogue Page 1SNK162025S0201

ZK2.5-4P PI-Spring Terminal Blocks Feed-through with 4 connections

Find all the features of the ZK2.5 terminal block with the added option of distributing or branching 4 conductors.





00~~00	PI-Spring Terminal Blocks	2.5 mm ²
	Terminal Blocks	12 AWG
5.2 mm	0.205 in	Spacing

Ordering Details

Color		Type	Order Code	EAN Code	Pack ^(ing)	Weight
						(1 pce) g
Grey		ZK2.5-4P	1SNK705012R0000	3472597050121	50	9
Blue		ZK2.5-4P-BL	1SNK705022R0000	3472597050220	50	9
Orange		ZK2.5-4P-OR	1SNK705032R0000	3472597050329	50	9
Yellow		ZK2.5-4P-YL	1SNK705074R0000	3472597050749	50	9
Green	100	ZK2.5-4P-GN	1SNK705075R0000	3472597050756	50	9
Red		ZK2.5-4P-RD	1SNK705076R0000	3472597050763	50	9
Black		ZK2.5-4P-BK	1SNK705080R0000	3472597050800	50	9
White		ZK2.5-4P-WH	1SNK705079R0000	3472597050794	50	9

Declarations and Certificates

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



Declarations and Ce	rtificates										
(€ ⊙E	CE)22515			
CB RoHS	СВ				1SND162016A02*						
RoHS c N us	RoHs	ND			1SND230535F02* 1SND162012A02*						
USR CNR	USR C	NK					ISINL	10201	ZAUZ"		
®	CSA						1SNE	016201	4A02*		
Gost R	GOST	R						016100			
€x ATEX	ATEX							016200			
IECEx IECEx	IECEx						1SNE	016201	0A17*		
© BV	BV						1SNI	016201	3A02*		
BV							IOIVE	710201	0/102		
Atau Daalaat'aa	A D						I C N I E	200500	F 0 1 0 *		
Atex Declaration	Atex D	eclaratior	1				ISNL)22508	5C10°		
Explosive Atmos	nhere: ATF)	(Classifi	cation								
Group Category	F.1.0. 0. 7 (1 L)	. 0.000111			Protection	n Method					
IM2 II 2 GD Ex eb I/IIC	`/IIIC				Ev at inc	reased security	V				
In the presence of exp	olosive dust atm	osphere, te	rminal blocks are	to be	installed	in certified end	losure	e II 2D			
General Information											
he following information must	he strictly adhered	d to in order to	o quarantee the term	ninal hl	ock electric	al mechanical a	nd env	ironmenta	l nerformar		
rotection	IEC 60947-1		NEMA250		OCK CICCIIIC	ai, meenaneara		II OI II II ICI II I	Periorina	100.	
ail	7	TH 35-7.5									
	T	TH 35-15									
Vire stripping length		11 mm	0.433 in								
		Screw clar	mn	Cor	ew rail cor	ato at	Dicc	onnect d	loviloo		
		Screw clai	шр	- 1	ximum va		DISC	onnectu	levice		
Operating tool		Flat screw	driver	1							
		3.5 mm	0.138 in								
		3.5 11111	0.138 111								
orque											
Material Specificatio	nns										
nsulating material	7113							Polyami	de		
CTI CTI								600 V			
lammability							UL94	VO			
		_				NF F 1	6101	I2F2			
		_							_		
				Ne	edie flame	e test IC 60615	-11-5	Complia	nt		
Connecting capacity	per clamp	_		PI S	pring						
		Norme	IEC60947-7-1			JL1059				T	
Rigid - Solid / Stranded of	conductor —	Value	0.2 4 mm²	2		12 AWG				<u> </u>	
Flexible conductor		Norme	IEC60947-7-1								
		Value	0.22 2.5 mr							\perp	
Flexible conductor with n	non	Norme	Manufacturer d			acturer data				\perp	
nsulated ferrule		Value	0.22 2.5 mr			14 AWG				+	
Flexible conductor with in errule	nsulated	Norme Value	Manufacturer d 0.22 2.5 mr			acturer data 14 AWG				+-	
on ulc		value	1/11 C.Z ZZ.U	117		14 AVVG 2.4 mm				+-	
Sauge			IEC 60947-1			r 110111				+-	
errule maximum outer dia	meter or condu	ctor			N.4.			4.75		+	
nsulation maximum outer	diameter		0	Max.	ivianut	acturer data		4.65 r	ıım		
		1			•		1				

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	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 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 mm²	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 ²
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

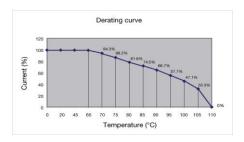
Voltage

IEC 60947-1 UL 1059	
UL 1059	600 \/
	1000 V
UL 1059	B, C, D
CSA-C-22.2 n°158	600 V
IEC/ EN 60079-7	630 V
IEC 60947-1	8000 V
IEC 60947-1	2200 V
IEC 60947-1	3
IEC 60947-1	III
	CSA-C-22.2 n°158 IEC/ EN 60079-7 IEC 60947-1 IEC 60947-1 IEC 60947-1 IEC 60947-1

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

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	「当」当「当」当 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	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

ZK2.5-4P Terminal Block Accessories Compatibility

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

Description	Type	Order Code	Pack ^(ing)	Weight	t	
			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	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			
3	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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