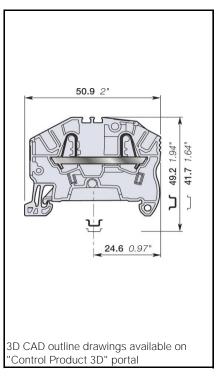
ZK2.5 PI-Spring Terminal Blocks Feed-through

Combine high performance with compact dimensions:

- 1000 V IEC 600 V UL,
- Opt for the best marking visibility thanks to the up-front, flat marker zone, which lets you mark up to eight digits or increase the font size.





O W O	PI-Spring Terminal Blocks	2.5 mm ²
	Terminal Blocks	12 AWG
5.2 mm	0.205 in	Spacing

Ordering Details

Color		Туре	Order Code	EAN Code	Pack ^(ing)	Weight
						(1 pce) g
Grey	2	ZK2.5	1SNK705010R0000	3472597050107	50	5.5
Blue		ZK2.5-BL	1SNK705020R0000	3472597050206	50	5.5
Orange		ZK2.5-OR	1SNK705030R0000	3472597050305	50	5.5
Yellow		ZK2.5-YL	1SNK705060R0000	3472597050602	50	5.5
Green		ZK2.5-GN	1SNK705061R0000	3472597050619	50	5.5
Red		ZK2.5-RD	1SNK705062R0000	3472597050626	50	5.5
White		ZK2.5-WH	1SNK705065R0000	3472597050657	50	5.5
Black		ZK2.5-BK	1SNK705066R0000	3472597050664	50	5.5

Declarations and Certificates

C€ ©E	CB	RoHS RoHS	c SU us USR CNR	(F)	Gost R	€x ATEX	IECEx IECEx	
		BV			ATEX Declaration	-		

€ € ©E !!!	tificates										
IEC neg	CE							22515			
RoHS	СВ				1SND162016A02*						
RoHS	RoHs USR C	ND			1SND230535F02* 1SND162012A02*						
USR CNR	USRC	INK					ISINL	710201	2AU2		
®	CSA						ISNE	16201	4A02*		
© Gost R	GOST	R						16100			
€x ATEX	ATEX							16200			
<mark>IECEx</mark> IECEx	IECEx						ISNE	16201	0A17*		
© BV	BV						ISNE)16201	3A02*		
Atex Declaration	Atex D	eclaration				1	ISNE	22508	5C10*		
Explosive Atmosp	here: ATEX	(Classific	cation								
Group Category					Protectio	n Method					
IM2 II 2 GD Ex eb I/IIC/	IIIC				Ex e: incr	reased security	y				
In the presence of explo	osive dust atm	osphere, ter	minal blocks are	to be	installed i	in certified end	losure	e II 2D			
General Information											
The following information must b				ninal blo	ock electric	al, mechanical a	nd envi	ronmenta	l performan	ice.	
Protection	IEC 60947-1	+	NEMA250								
Rail	T.	TH 35-7.5, TH 35-15									
Wire stripping length		11 mm	0.433 in								
	1	Coroux olor	20	Coro	w rail con	ataat	Dico	onnect d	louioo		
		Screw clar	пр		kimum val		DISC	onnect a	levice		
Operating tool		Flat screwe	driver								
		3.5 mm	0.138 in								
Torque											
Material Specification	าร										
Insulating material							-	D = 1: !			
3								Polyamic	ae		
CTI								600 V	ae		
CTI		_					UL94	600 V V0	ae		
CTI		_				NF F 1	UL94	600 V V0	ae		
CTI		_ _ _		Nee	edle flame		UL94 6101	600 V V0 I2F2			
CTI Flammability	non elevi	_ _ _				NF F 1	UL94 6101	600 V V0 I2F2			
CTI Flammability Connecting capacity		Norme	IFC60947-7-	PI S	oring	NF F 1	UL94 6101	600 V V0 I2F2			
CTI		Norme Value	IEC60947-7- 0.2 4 mm ²	PI S _i	oring	NF F 1	UL94 6101	600 V V0 I2F2			
CTI Flammability Connecting capacity 1 Rigid - Solid / Stranded co		Value Norme	0.2 4 mm ²	PI Si	oring	NF F 1 test C 60615-	UL94 6101	600 V V0 I2F2			
CTI Flammability Connecting capacity 1 Rigid - Solid / Stranded co	onductor ——	Value Norme Value	0.2 4 mm ² IEC60947-7-2 0.22 2.5 mr	PI S ₁ 1 1 1 1	oring L 26	NF F 1 e test C 60615- JL1059 . 12 AWG	UL94 6101	600 V V0 I2F2			
CTI Flammability Connecting capacity 1 Rigid - Solid / Stranded co 1 Flexible conductor 1 Flexible conductor with no	onductor ——	Value Norme	0.2 4 mm ²	PI S _I 1 2 1 m ² lata	oring L 26 Manuf	NF F 1 test C 60615-	UL94 6101	600 V V0 I2F2			
CTI Flammability Connecting capacity Rigid - Solid / Stranded co Flexible conductor Flexible conductor with no	onductor —	Value Norme Value Norme	0.2 4 mm ² IEC60947-7- 0.22 2.5 mr Manufacturer d	PI S ₁ 1 1 1 m² lata m²	oring L 26 Manuf 26	NF F 1 e test C 60615 JL1059 . 12 AWG acturer data	UL94 6101	600 V V0 I2F2			
CTI Flammability Connecting capacity 1 Rigid - Solid / Stranded co 1 Flexible conductor 1 Flexible conductor with no insulated ferrule 1 Flexible conductor with insulated ferrule	onductor —	Value Norme Value Norme Value	0.2 4 mm ² IEC60947-7- ² 0.22 2.5 mr Manufacturer d 0.22 2.5 mr	PI S ₁ 1 1 1 m ² lata m ²	Manuf. 26 Manuf. Manuf.	NF F 1 test C 60615 JL1059 . 12 AWG acturer data . 14 AWG	UL94 6101	600 V V0 I2F2			
CTI Flammability Connecting capacity	onductor —	Value Norme Value Norme Value Norme Value Norme	0.2 4 mm ² IEC60947-7- ² 0.22 2.5 mr Manufacturer d 0.22 2.5 mr Manufacturer d	PI Si 1 2 1 1 m ² lata m ² lata	Manuf 26 Manuf 26 Manuf 26	NF F 1 e test C 60615 JL1059 . 12 AWG acturer data . 14 AWG acturer data	UL94 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).

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 Flovible conductors	Norme			
2 Flexible conductors	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

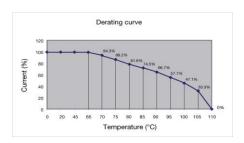
Voltage

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

	711 tomporataro er 20 e 120 ee 11 7 e	
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 Complian	t
	Conditions	Temperature 110 °C	
		Duration of test 96 h	
Cyclic damp heat		IEC 60068-2 30 Complian	t
	Conditions	Temperature 55 °C	
		Relative humidity 95 %	
		Number of cycles (1 cycle = 24h) 2	
Cold		IEC 60068-2 1 Complian	t
	Conditions	Temperature -55 °C	
		Duration of test 96 h	
Damp heat steady state		IEC 60068-2-78 Complian	t
	Conditions	Temperature 40 °C	
		Relative humidity 93 %	
		Duration of test 96 h	

Corrosion

Salt mist	IEC 6006		2 11 Compliant	
	Conditions	Duration of test 1000 h		
		Concentration 5 %		
SO2		ISO 6988 Compli	ant	
	Conditions	Duration of test 48 h		
		Concentration 0.2 dm	3	
Flowing mixed gas corrosion test		IEC 60068-2 60 Compli	ant	
	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
unctional 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 Terminal Block Accessories Compatibility Some accessories may modify the terminal blocks.

Some accessories may	/ modify	the terminal block's rating	See complete information in the accessories catalog page.	
JUITIC accessories iria	y mouni	y the terminal block 3 rating	See complete information in the accessories catalog page.	

End Stops	BAM3		pieces	g (1 pce)	
End Stops	DAM2			(PCC)	
•	DAIVIS	1SNK900001R0000	50	13.80	
	BAZ1	1SNK900002R0000	20	5.30	
	BAZH1	1SNK900102R0000	20	23.90	
End Sections	EK2.5	1SNK705910R0000	20	1.8	
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	
Cross Spacing Jumpers	JB85-3	1SNK900603R0000	10	2.80	
Circuit Separators	CS-R2	1SNK900106R0000	20	3.8	
	CS-R3	1SNK900107R0000	20	6.4	
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	
Shield Connectors	SHBP	1SNK900601R0000	20	4.12	
Component Plugs	PG5-R2		20	8.01	
Mounting Rails	PR3.G2		2		
	PR4	1SNA168500R1200	2	915.00	
	PR5	1SNA168700R2200	2		
	PR30	1SNA173220R0500	2	328.00	
	PR3.Z2	1SNA174300R1700	2		
	PR50	1SNA178529R0400	2	1 288.00	
Tools	PS-3	1SNK900650R0000	1	380.00	
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	
	Cross Spacing Jumpers Circuit Separators Test Adapters Test Connectors Shield Connectors Component Plugs Mounting Rails	JB5-2 JB5-3 JB5-4 JB5-5 JB5-10 JB5-50 TC5-R2 TP4 Test Connectors TP2 TP4 Test Connectors TC5 TC5-R1 Shield Connectors SHBP TC5-R1 SHBP TC5-R2 MOUnting Rails PR3.G2 PR4 PR5 PR30 PR3.Z2 PR50 PR3.Z2 PR50 PR3.Z2 PR50 PS-3 Terminal Block Markers MC512-YL MC512-YL	JB5-2	Jumper Bars JB5-2	JBS-2

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Contact us

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