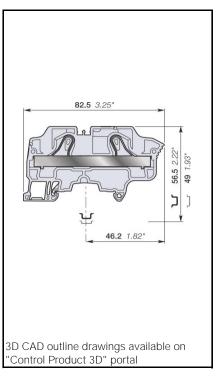
Technical Datasheet 1SNK162033D0201 Catalogue Page 1SNK162031S0201

# ZK10 PI-Spring Terminal Blocks Feed-through

Combine high performance with compact dimensions:

- 1000 V IEC 600 V UL,
- 57 A IEC 65 A UL.





	PI-Spring Terminal Blocks	10 mm²
00	Terminal Blocks	6 AWG
10 mm	0.394 in	Spacing

Ordering Details

Color	Туре	Order Code	EAN Code	Pack <sup>(ing)</sup>	Weight
					(1 pce) g
Grey	ZK10	1SNK710010R0000	3472597100109	20	27.2
Blue	ZK10-BL	1SNK710020R0000	3472597100208	20	27.2
Orange	ZK10-OR	1SNK710030R0000	3472597100307	20	27.2

### **Declarations and Certificates**

<b>C€</b> ©E	CB	RoHS RoHS	c <b>SU</b> us USR CNR	<b>(P</b>	Gost R	<b>€x</b> ATEX	IECEx IECEx	
		BV			ATEX Declaration	-		



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CE IEC IEU	CB							016201			
RoHS	RoHs				1SND230535F02*						
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USR CNR	00110	1 11 1					10112	710201	2,102		
<b>(f)</b>	CSA						1SNE	016201	4A02*		
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Explosive Atmos	nhero ATEN	( Classifi	cation								
Group Category	priere. ATE/	v Ciassill	Satiuii		Protection	n Method					
IM2 II 2 GD Ex eb I/IIC	:/IIIC				Ex e: incr	eased security	У				
In the presence of exp	losive dust atm	osphere, ter	minal blocks are	to be	ı installed i	n certified end	losure	e II 2D			
General Information											
he following information must		d to in order to	guarantee the term	ninal blo	ock electrica	ıl, mechanical aı	nd envi	ironmental	l performar	nce.	
rotection	IEC 60947-1		NEMA250	$\top$							
ail		TH 35-7.5,		1							
	7	TH 35-15									
Vire stripping length		15 mm	0.591 in	1							
		!									
		Screw clar	np		w rail con		Disc	onnect d	evice		
				(Мах	kimum valı	ne)					
Operating tool		Flat screw	driver						_		
		4 mm	0.157 in								
			0.107	$\bot$							
orque				-							
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Material Specificatio	ons							Dolume!	70		
Material Specificationsulating material	ons							Polyamio	de		
Material Specificationsulating material Ti	ons							600 V	de		
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Material Specificationsulating material	ons					NF F 1	UL94	600 V	de		
Material Specificationsulating material	ons			Nee	edle flame	NF F 1	UL94 6101	600 V V0 I2F2			
Material Specificationsulating material	ons			Nee	edle flame		UL94 6101	600 V V0 I2F2			
Material Specificationsulating material ETI Iammability						NF F 1	UL94 6101	600 V V0 I2F2			
Material Specificationsulating material STI Illumnability	y per clamp	Norme	IEC60947-7-	PI Sp	pring	NF F 1	UL94 6101	600 V V0 I2F2			
Material Specificationsulating material TI Iammability Connecting capacity	y per clamp	Norme Value	IEC60947-7- 0.5 16 mm	PI Sp	oring U	NF F 1	UL94 6101	600 V V0 I2F2			
Material Specificationsulating material ITI Ilammability  Connecting capacity Rigid - Solid / Stranded of	y per clamp			PI Sp 1 n <sup>2</sup>	oring U	NF F 1 test C 60615- L1059	UL94 6101	600 V V0 I2F2			
Material Specificationsulating material ITI Ilammability  Connecting capacity Rigid - Solid / Stranded of	y per clamp	Value	0.5 16 mm	PI Sp 1 n <sup>2</sup>	oring U	NF F 1 test C 60615- L1059	UL94 6101	600 V V0 I2F2			
Material Specificationsulating material CTI Iammability  Connecting capacity Rigid - Solid / Stranded of	/ per clamp conductor	Value Norme	0.5 16 mm	PI Sp 1 n <sup>2</sup> 1 n <sup>2</sup>	oring U 20	NF F 1 test C 60615- L1059	UL94 6101	600 V V0 I2F2			
Material Specificationsulating material ETI Iammability  Connecting capacity Rigid - Solid / Stranded of Flexible conductor Flexible conductor with n	/ per clamp conductor	Value Norme Value	0.5 16 mm IEC60947-7- 0.5 10 mm	PI Sp 1 n <sup>2</sup> 1 n <sup>2</sup> data	oring U 20 Manufa	NF F 1 test C 60615 L1059 . 6 AWG	UL94 6101	600 V V0 I2F2			
Material Specificationsulating material TI Iammability  Connecting capacity Rigid - Solid / Stranded of Flexible conductor Flexible conductor with natural strangers in the second conductor with natural strangers.	/ per clamp conductor — non	Value Norme Value Norme	0.5 16 mm IEC60947-7- 0.5 10 mm Manufacturer c	PI Sp 1 n <sup>2</sup> 1 n <sup>2</sup> data n <sup>2</sup>	oring U 20 Manufa 20	NF F 1 test C 60615	UL94 6101	600 V V0 I2F2			
Material Specification is ulating material insulating material insulating material insulating material insulation insulated ferrule insula	/ per clamp conductor — non	Value Norme Value Norme Value	0.5 16 mm IEC60947-7- 0.5 10 mm Manufacturer c 0.5 10 mm	PI Sp 1 n <sup>2</sup> 1 n <sup>2</sup> data n <sup>2</sup> data	oring U 20 Manufa 20 Manufa	NF F 1 test C 60615 L1059 . 6 AWG acturer data . 8 AWG	UL94 6101	600 V V0 I2F2			
Material Specificationsulating material CTI Clammability  Connecting capacity Rigid - Solid / Stranded of Flexible conductor Flexible conductor with manulated ferrule Flexible conductor with insulated ferrule	/ per clamp conductor — non	Value Norme Value Norme Value Norme	0.5 16 mm IEC60947-7- 0.5 10 mm Manufacturer c 0.5 10 mm Manufacturer c	PI Sp 1 n <sup>2</sup> 1 n <sup>2</sup> data n <sup>2</sup> data	Manufa 20 Manufa 20 Manufa 20	NF F 1 test C 60615- L1059 . 6 AWG acturer data . 8 AWG acturer data	UL94 6101	600 V V0 I2F2			
Material Specificationsulating material CTI Flammability  Connecting capacity Rigid - Solid / Stranded of Flexible conductor Flexible conductor with insulated ferrule Flexible conductor with insulated ferrule Gauge	/ per clamp conductor — non	Value Norme Value Norme Value Norme	0.5 16 mm IEC60947-7- 0.5 10 mm Manufacturer c 0.5 10 mm Manufacturer c	PI Sp 1 n <sup>2</sup> 1 n <sup>2</sup> data n <sup>2</sup> data n <sup>2</sup>	Manufa 20 Manufa 20 Manufa 20	NF F 1 test C 60615- L1059 . 6 AWG acturer data . 8 AWG acturer data . 8 AWG	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).

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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 colludctors	Value			
2 Flexible conductors with twin	Norme	Manufacturer data	Manufacturer data	
ferrule	Value	0.5 4 mm <sup>2</sup>	20 12 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	10 mm <sup>2</sup>	UL1059	6 AWG
Maximum Cross section	Manufacturer data		Manufacturer data	6 AWG

### Electrical characteristics Current

Rated current			IEC60947-7-1	57 A	
	Field and factory wiring Cat.2		UL 1059	55 A	
	Factory wiring Cat.1		UL 1059		
			CSA-C-22.2 n°158	55 A	
Maximum Exe current			IEC/EN 60079-7	51 A	
Rated short-time withstand current 1 s (Icw)			IEC60947-7-1	1200 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		
Maximum short circuit current (1s)			Manufacturer data	1200 A	

### Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR		UL 1059	100 kA
With the following configurations:			
	Suitable conductor wire range		10 6 AWG
	Maximum voltage		600 V
	Fuse class / Max. amp. Rating	J	250 A
		T	250 A
		RK1	200 A
		RK5	100 A
		G	60 A
		CC	30 A

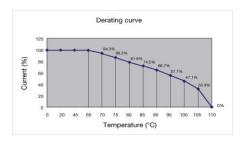
### Voltage

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 1.8 W
Maximum dissipated power at maximum Exe current	IEC 60079-7 1.6 W

Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3

riated perior diserpation at an arribre	The temperature of 20 of 120 do 11 f o	
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 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 C	Compliant
	Conditions	Duration of test 1	1000 h
		Concentration 5	5 %
SO2		ISO 6988 (	Compliant
	Conditions	Duration of test 4	18 h
		Concentration C	).2 dm³
Flowing mixed gas corrosion test		IEC 60068-2 60 C	Compliant
	Conditions	Number of the test method 3	3
		Duration of test 2	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

### ZK10 Terminal Block Accessories Compatibility

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

Description	Type Ord	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	EK10	1SNK710910R0000	20	3.3	
3 Jumper Bars	JB10-2	1SNK910302R0000	50	4.60	
	JB10-3	1SNK910303R0000	50	7.10	
	JB10-4	1SNK910304R0000	40	9.40	
	JB10-5	1SNK910305R0000	30	12.00	
	JB10-10	1SNK910310R0000	20	24.00	
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 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	
8 Tools	PS-3	1SNK900650R0000	1	380.00	
9 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	
	MC812	1SNK160000R0000	22	10.00	
	MC812-YL	1SNK160004R0000	22	10.00	
	MC812PA	1SNK169999R0000	20	14.00	
	PROCAP5	1SNK900609R0000	20	0.69	
	UMH	1SNK900611R0000	10	0.20	
	PROCAP6	1SNK900612R0000	20	0.78	
	PROCAP8	1SNK900613R0000	20	1.00	
	SAT5	1SNK900614R0000	5	6.00	
	0,110	.5.11(7550) 11(0500)		0.00	

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## Contact us

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