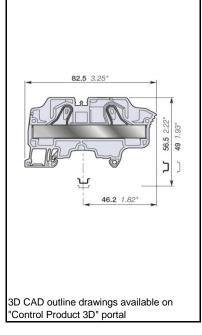
Catalogue Page 1SNK162032S0201

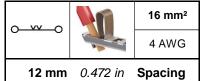
ZK16 PI-Spring Terminal Blocks Feed-through

Combine high performance with compact dimensions: - 1000 V AC / DC 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.







Ordering Details

Color	Туре	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce) g
Grey	ZK16	1SNK712010R0000	3472597120107	20	33.80
Blue	ZK16-BL	1SNK712020R0000	3472597120206	20	33.80

Declarations and Certificates

CE	CB	RoHS RoHS	C RU us USR CNR	5	EAC EX	Æx) ATEX	IECEx IECEx	
	c FU us Haz Loc	(C) BV			ATEX Declaration			



Power and productivity for a better world™

eclarations and Certif	ficates	
CE or	CE	1SND225104U10*
25 C	СВ	1SND162011A02*
RoHS RoHS	RoHS	1SND230535F02*
c NU B USTONG	USR CNR	1SND162012A02*
		1SND162012A02*
Ð	CSA	1SND162014A02*
ERCEX EAG EX	EAC Ex	
⟨Ex⟩ 4TFx	ATEX	1SND162009A17*
ICCC* ITCEx	IECEx	1SND162010A17*
c RU us Haz Loc	USR CNR Haz Loc	1SND162024A02*
RV	BV	1SND162013A02*
	DNV	1SND162023A02*
Atex Declaration	Atex Declaration	1SND225085C10*

Explosive Atmosphere: ATEX Classification

Group Category	Protection Method
IM2 II 2 GD Ex eb I/IIC/IIIC	Ex e: increased security

In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D

General Information

The following information mu	,				al, meenamear an			
Protection	IEC 60947-1	IP20		NEMA 1				
Rail		TH 35-7.5, TH	H 35-15					
Wire stripping length		15 mm	0.591 in					
						1		
		Screw clamp		Screw rail cor (Maximum va		Disconnect de	evice	
Operating tool		Screw clamp Flat screwdriv				Disconnect de	vice	

Material Specifications

Insulating material	Polyamide	
CTI	600 V	
Flammability	UL94 V0	
	NF F 16101 12F2	
	Needle flame test C 60615-11-5 Compliant	

Connecting capacity per clamp PI Spring IEC60947-7-1 UL1059 Norme 1 Rigid - Solid / Stranded conductor 0.5 ... 25 mm² Value 20 ... 4 AWG IEC60947-7-1 Norme 1 Flexible conductor Value 0.5 ... 16 mm² Norme Manufacturer data Manufacturer data 1 Flexible conductor with non insulated ferrule Value 0.5 ... 16 mm² 20 ... 6 AWG Manufacturer data 1 Flexible conductor with insulated Norme Manufacturer data ferrule 0.5 ... 16 mm² 20 ... 6 AWG Value A7 & 6.3 mm Dia. Gauge IEC 60947-1 Ferrule maximum outer diameter or conductor Ø Max. Manufacturer data 0.187 in U. 10.5 mm insulation maximum outer diameter

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

Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded	Norme			
conductors	Value			
2 Flexible conductors	Norme			
2 Flexible conductors	Value			
2 Flexible conductors with twin	Norme	Manufacturer data	Manufacturer data	
ferrule	Value	0.5 6 mm²	20 10 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	16 mm ²	UL1059	4 AWG
Maximum Cross section	Manufacturer data	25 mm²	Manufacturer data	4 AWG

Electrical characteristics

Current

Rated current			IEC60947-7-1	76 A	
	Field and factory wiring Cat.2		UL 1059	75 A	
	Factory wiring Cat.1		UL 1059		
			CSA-C-22.2 n°158	75 A	
Maximum Exe current			IEC/EN 60079-7	69 A	
Rated short-time withstand current 1 s (Icw)			IEC60947-7-1	1920 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			UL 1059	2544 A	
Max. current (45° temperature increase) / Max	. cross section (mm ²)		Manufacturer data		25 mm ²
Maximum short circuit current (1s)			Manufacturer data	1920 A	•

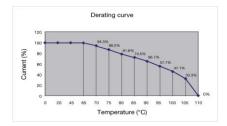
SCCR		UL 1059	100 kA
With the following configurations:			
	Suitable conductor wire range		10 4 AWG
	Maximum voltage		600 V
	Fuse class / Max. amp. Rating	J	250 A
		Т	250 A
		RK1	200 A
		RK5	100 A
		G	60 A
		CC	30 A

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 60079-7 693 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



1 fuse and 4 feed-through blocks

5 fuse blocks

Dissipated power

Maximum dissipated power at rated current	IEC 60947-1 2.4 W	
Maximum dissipated power at maximum Exe current	IEC 60079-7 2,2 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	

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 Duration of test 48 h Conditions Concentration 0.2 dm³ Flowing mixed gas corrosion test IEC 60068-2 60 Compliant Conditions Number of the test method 3 Duration of test 21 j

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
ong 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

ZK16 Terminal Block Accessories Compatibility

me accessories may modify the terminal blo Description	Туре	Order Code	Pack ^(ing)	Weight	
Description	Type		pieces	g (1 pce)	
Terminal Plack Markers	MG-CPM 13	1SNB041791R0612	1680	0.273	
1 Terminal Block Markers	MC512	1SNK140000R0000	22	9.00	
	MC512 MC512-YL		22	9.00	
	MC512-TL MC512PA	1SNK140004R0000			
		1SNK149999R0000	20 22	10.00	
	MC612	1SNK150000R0000		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	0.70	
	UMH	1SNK900611R0000	10	0.20	
	PROCAP6	1SNK900612R0000	20	0.80	
	PROCAP8	1SNK900613R0000	20	1.00	
	SAT6	1SNK900615R0000	5	6.00	
2 Mounting Rails	PR3.G2	1SNA164800R0300	2	718.00	
	PR4	1SNA168500R1200	2	915.00	
	PR5	1SNA168700R2200	2	700	
	PR30	1SNA173220R0500	2	328.00	
	PR3.Z2	1SNA174300R1700	2	718.00	
	PR50	1SNA178529R0400	2	1288.00	
3 End Sections	EK10	1SNK710910R0000	20	3.30	
4 End Stops	BAM4	1SNK900001R0000	50	14.00	
·	BAZ1	1SNK900002R0000	50	5.30	
	BAZH1	1SNK900102R0000	20	24.00	
5 Circuit Separators	CS-R3	1SNK900107R0000	20	6.40	
6 Test Connectors	TC5-R1	1SNK900201R0000	10	5.20	
7 Test Adapters	TP2	1SNK900203R0000	20	1.70	
	TP4	1SNK900205R0000	20	2.40	
8 Tools	PS-3	1SNK900650R0000	1	380.00	
8 10013	10-5	1SNK900659R0000		300.00	
9 Jumper Bars	JB12-2	1SNK912302R0000	50	4.90	
	JB12-2 JB12-3		50		
		1SNK912303R0000		7.60	
	JB12-5	1SNK912305R0000	20	12.90	

Contact us

ABB France

Electrification Products Division PG Connection 3, rue Jean Perrin F-69687 Chassieu cedex / France Tel. +33 (0)4 7222 1722 Fax +33 (0)4 7222 1935

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