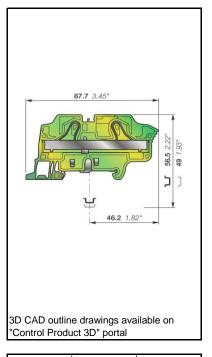
ZK16-PE PI-Spring Terminal Blocks Ground

Improve the safety of your installation in the event of a short-circuit thanks to our screwless rail contact:

- Rail contact non operator dependent,
- Performances above the requirements of the IEC 60947-7-2 terminal block standard,
- Secured snap on or off the rail,
- Profile aligned with ZK16.





0 <u>Y</u> 0		16 mm²
\equiv		4 AWG
12 mm	0.472 in	Spacing

Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce) g
Green-Yellow	ZK16-PE	1SNK712150R0000	3472597121500	20	47.00

Declarations and Certificates

Haz Loc

C€ ©E	CB	RoHS RoHS	c FLI us USR CNR		(P	EAC Ex	(ξχ) ATEX	IECE× IECEx	
	c '7U 'us	0		(A)		ATEX Declaration			

Declarations and	Certificates

(€	CE	1SND225105U10*
<u> </u>	СВ	1SND162018A02*
RoHS RoHS	RoHS	1SND230535F02*
UAT CAR	USR CNR	1SND162012A02*
		1SND162012A02*
®	CSA	1SND162014A02*
ERC DA	EAC Ex	
(E) ATEX	ATEX	1SND162009A17*
IECEx ITOTX	IECEx	1SND162010A17*
c FX us Haz Loc	USR CNR Haz Loc	1SND162024A02*
B6	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

The following information mu		 	diantee the ter	1	ai, moonani	Jai and onvironimonic	i poriormanoc.
Protection	IEC 60947-1	IP20		NEMA 1			
Rail	7	TH 35-7.5, T	H 35-15				
Wire stripping length		15 mm	0.591 in				
		Screw clamp		Screw rail cor	ntact	Disconnect of	device
				(Maximum va	lue)		
Operating tool		Flat screwdri	ver				

Material Specifications

material operations				
Insulating material				Polyamide
CTI				600 V
Flammability			U	_94 V0
	_		NF F 16	101 I2F2
		Ne	eedle flame test EC 60615-1	1-5 Compliant
Connecting capacity per clamp	_	DLC	Spring	
Connecting capacity per claimp		PIS	pring	
4 Divid Calid / Chronded conductor	Norme	IEC60947-7-2	UL1059	

Connecting capacity per clam	p	PIS	pring		
1 Rigid - Solid / Stranded conductor —	Norme	IEC60947-7-2	UL1059		
- Rigid - Solid / Stranded conductor —	Value	0.5 25 mm ²	20 4 AWG		
1 Flexible conductor —	Norme	IEC60947-7-2			
r Flexible conductor —	Value	0.5 16 mm ²			
1 Flexible conductor with non	Norme	Manufacturer data	Manufacturer data		
insulated ferrule	Value	0.5 16 mm ²	20 6 AWG		
1 Flexible conductor with insulated	Norme	Manufacturer data	Manufacturer data		
ferrule	Value	0.5 16 mm ²	20 6 AWG		
Gauge		A7 & 6.3 mm Dia.			
Gauge		IEC 60947-1			
Ferrule maximum outer diameter or condinsulation maximum outer diameter	luctor	Ø Max.	Manufacturer data	10.5 mm	0.187 in

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

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Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded	Norme		
conductors	Value		
2 Flexible conductors	Norme		
2 Flexible colluctors	Value		
2 Flexible conductors with twin	Norme		
ferrule	Value		

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	IEC60947-7-2 16	6 mm²	UL1059	4 AWG
Maximum Cross section	Manufacturer data 25	25 mm²	Manufacturer data	4 AWG

Electrical characteristics Current

Rated current			IEC60947-7-2		
	Field and factory wiring Cat.2		UL 1059		
	Factory wiring Cat.1		UL 1059		
			CSA-C-22.2 n°158		
Maximum Exe current			IEC/EN 60079-7		
Rated short-time withstand current 1 s (Icw)			IEC60947-7-2	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 (mm²)		Manufacturer data		25 mm ²
Maximum short circuit current (1s)			Manufacturer data	1920 A	•

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR		UL 1059	
With the following configurations:			
	Suitable conductor wire range		
	Maximum voltage		
	Fuse class / Max. amp. Rating	J	
		Т	
		RK1	
		RK5	
		G	
		CC	

Voltage

IEC 60947-1	
UL 1059	
UL 1059	B, C, D
CSA-C-22.2 n°158	
IEC/ EN 60079-7	693 V
IEC 60947-1	8000 V
IEC 60947-1	2200 V
IEC 60947-1	3
IEC 60947-1	III
	UL 1059 UL 1059 UL 1059 CSA-C-22.2 n°158 IEC/ EN 60079-7 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

Dissipated power

Maximum dissipated power at rated current	IEC 60947-1	
Maximum dissipated power at maximum Exe current	IEC 60079-7	

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

Transaction and an arrangement		
Separate arrangement / Overload and short-circuit protection		
Separate arrangement / Exclusive short-circuit protection		
Compound arrangement / Overload and short-circuit protection	17171717171	
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	

Correcion

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 v	ribrations	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-PE Terminal Block Accessories Compatibility

Description	Туре	Order Code	Pack ^(ing)	Weight	
•			pieces	g (1 pce)	
1 Terminal Block Markers	MG-CPM 13	1SNB041791R0612	1680	0.273	
	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	0.70	
	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	
		1SNK900659R0000			
9 Jumper Bars	JB12-2	1SNK912302R0000	50	4.90	
	JB12-3	1SNK912303R0000	50	7.60	
	JB12-5	1SNK912305R0000	20	12.90	
					-

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