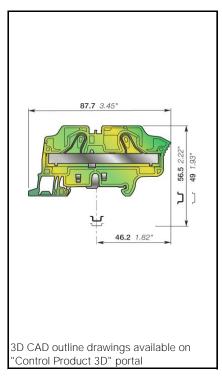
ZK16-PE PI-Spring Terminal Blocks Ground

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.





0-4-0	PI-Spring	16 mm²
Įμ	Terminal Blocks	4 AWG
12 mm	0.472 in	Spacing

Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight
					(1 pce)
Green-yellow	ZK16-PE	1SNK712150R0000	3472597121500	20	4-7
·					
·					

Declarations and Certificates

CE CE	CB	RoHS RoHS	c FLU us USR CNR		Gost R	€x ATEX	IECEx IECEx	
		(O) BV			ATEX Declaration			



Declarations and Ce	rtificates										
(€ ○E	CE)22515			
©B CB RoHS	СВ				1SND162018A02*						
RoHS	RoHs	USR CNR		1SND230535F02* 1SND162012A02*							
USR CNR	USRC	INK					ISINL)16201	2AU2		
®	CSA						ISNE	016201	4A02*		
Gost R	GOST	R						016100			
€x ATEX	ATEX							016200			
IECEx IECEx	IECEx						ISNE	016201	0A17*		
© BV	BV						ISNI	016201	3A02*		
BV							1011	710201	0/102		
Atex Declaration	Atex D	eclaration	n			1	SNL)22508	5C10*		
Explosive Atmos	nhere ATF)	(Classifi	ication								
Group Category	·ριιοιο. Λ1L/	· 01033111	ICUTION		Protectio	n Method					
IM2 II 2 GD Ex eb I/IIC	2/1110						,				
						reased security					
In the presence of exp	olosive dust atm	osphere, te	erminal blocks are	to be	installed	in certified enc	losure	e II 2D			
O a m a mal l m£a maa a kla m											
General Information The following information must	he strictly adhered	to in order t	o quarantee the term	ninal bl	nck electric	al mechanical a	nd env	ironmenta	l nerforman	ICO.	
Protection	IEC 60947-1		NEMA250	III Iai Di	OCK EIECITIC	ai, mechanicai ai	Id env	поппена	Periorinan	ice.	
Rail	123 20111 1	TH 35-7.5									
	T	TH 35-15									
Vire stripping length		15 mm	0.591 in								
				10							
		Screw cla	mp		ew rail cor ximum val		DISC	onnect d	ievice		
Operating tool		Flat screw	vdriver	(1716							
5 11 11 11 11 11 11 11 11 11 11 11 11 11											
		4 mm	0.157 in								
Torque											
Material Specificatio	ne										
nsulating material	0115							Polyami	de		
CTI								600 V	<u> </u>		
Tammability							JL94	VO			-
		=				NF F 1	6101	I2F2			
		-									
				Ne	edle flame	e test C 60615	11-5	Complia	ınt		
Connecting capacity	, ner clamn	-		DLC	pring						
		Norme	IEC60947-7-2			JL1059				T	
Rigid - Solid / Stranded o	conductor —	Value	0.5 25 mm			4 AWG					
Elovible conductor		Norme	IEC60947-7-2								
Flexible conductor		Value	0.5 16 mm								
Flexible conductor with n	non	Norme	Manufacturer d			acturer data					
nsulated ferrule		Value	0.5 16 mm			6 AWG					
Flexible conductor with ir errule	nsulated	Norme Value	Manufacturer d 0.5 16 mm			acturer data 6 AWG				-	
		value	0.0 10 111111	1		6 AWG 5.9 mm					
Gauge			IEC 60947-1								
errule maximum outer dia	meter or condu	ctor		Max.	Man	octurer dete		10 F ··	mm	1	
insulation maximum outer o	diameter		10	ıvıdX.	ivianuf	acturer data		10.5 r	11111		

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 colludations	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 mm²	UL1059	4 AWG
Maximum Cross section	Manufacturer data		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	1960 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	1960 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

Rated voltage	IEC 60947-1	
Rated voltage	UL 1059	
Use Group	UL 1059	B, C, D
Rated voltage	CSA-C-22.2 n°158	
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

Dissipated power

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 ambie	ent temperature of 23 °C - IEC 60947-	7-3
Separate arrangement / Overload and short-circuit protection		
Separate arrangement / Exclusive short-circuit protection		KS .
Compound arrangement / Overload and short-circuit protection		
Compound arrangement / Exclusive short-circuit protection	[\frac{\frac}}}}}}{\frac{\fin}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}{\frac{\frac{\f{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fr	

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

ZK16-PE Terminal Block Accessories Compatibility Some accessories may modify the terminal block in a companion of the service of the of the

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.	

	Description	Туре	Order Code	Pack ^(ing)	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	JB12-2	1SNK912302R0000	50	4.9	
		JB12-3	1SNK912303R0000	50	7.6	
		JB12-5	1SNK912305R0000	20	12.9	
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	
		SAT6	1SNK900615R0000	5	6.00	
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