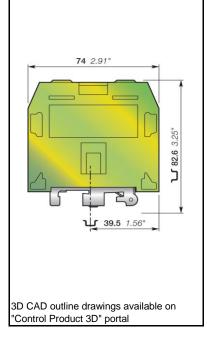
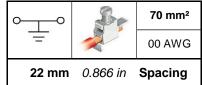
Catalogue Page

# ZS70-PE Screw Clamp Terminal Blocks Ground

Reliable electrical and mechanical contact with the rail that exceeds the requirements of IEC 60947-7-2 terminal block standard.







#### **Ordering Details**

Color	Туре	Order Code	EAN Code	Pack <sup>(ing)</sup>	Weight
					(1 pce) g
Green-Yellow	ZS70-PE	1SNK522150R0000	3472595221509	10	222.00

#### **Declarations and Certificates**

CE	CB	RoHS RoHS	<b>CRU</b> US USR CNR	SP:	EAC EX	Æx ATEX	IECEx IECEx	
BR-Ex e II	<b>c RU</b> us Haz Loc	(0) BV	() Bina		ATEX Declaration			



Power and productivity for a better world™

Declarations and Certi	ficates	
CE	CE	1SND225101U10*
	СВ	1SND161035A02*
RoHS RoHS	RoHS	1SND230491F02*
C MAR USIY CND	USR CNR	1SND161040A02*
()	CSA	1SND161070A02*
	EAC Ex	
(E) ATEX	ATEX	1SND162004A17*
	IECEx	1SND162005A17*
	BR-Ex e II	1SND161042A02*
e <b>W</b> us Haziloo	USR CNR Haz Loc	1SND161047A02*
50 197	BV	1SND161073A02*
er en	RINA	1SND161088A02*
₩ DVe	DNV	1SND161087A02*
Atex Declaration	Atex Declaration	1SND225085C10*

#### **Explosive Atmosphere: ATEX Classification**

Group Category	Protection Method
IM2 II 2 GD Ex eb I/II/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 must be	strictly adhered	to in order to gua	arantee the termin	al block electrica	l, mechanical and	d environmental p	performance.	
Protection	IEC 60947-1	IP10		NEMA 1				
Rail	J	TH 35-7.5, TH	35-15					
Wire stripping length		25 mm	0.984 in					

		Screw clamp		Screw rail co (Maximum v		Disconnect de	evice	
Operating tool		Allen Key						
		6 mm	0.236 in	4 mm	0.158 in			
Torque	6	6.5 N.m	57.5 N.m	1.9 N.m	16.82 lb.in			
	$\bigcirc$	± 0.5 N.m	± 4.43 N.m					

#### **Material Specifications**

Insulating material		Polyamide
СТІ		600 V
Flammability	UL94	VO
	NF F 16101	I2F3
	Noodlo flamo tost C 60615 11 5	Compliant

Needle flame test C 60615-11-5 Compliant

Connecting capacity per clar	np	Screw	clamp	
1 Rigid - Solid / Stranded conductor -	Norme			
	Value	16 95 mm²	4 00 AWG	
1 Flexible conductor	Norme			
	Value	16 70 mm²		
1 Flexible conductor with non	Norme	Manufacturer data		
insulated ferrule	Value	16 50 mm²		
1 Flexible conductor with insulated	Norme	Manufacturer data		
ferrule	Value	16 50 mm²		
Course		B11	14 mm	
Gauge		IEC 60947-1	0.551 in	
Ferrule maximum outer diameter or con insulation maximum outer diameter	nductor	Ø Max.		

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm<sup>2</sup>).

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 conductors	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	70 m	mm²		00 AWG
Maximum Cross section	Manufacturer data 70 m	mm²	Manufacturer data	00 AWG

#### **Electrical characteristics**

#### Current

<b>D</b> ( )		
Rated	current	

Rated current					
	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)				8400 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	8088 A	
Max. current (45° temperature increase) / Max	. cross section (mm <sup>2</sup> )		Manufacturer data		70 mm²
Maximum short circuit current (1s)			Manufacturer data	8400 A	

			-
Maximum short circuit current (1s)		Manufacturer data	8400 A
Short Circuit Current Rating (S	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
Rated voltage	CSA-C-22.2 n°158	
Rated voltage Ex e	IEC/ EN 60079-7	
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

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#### **Temperature range** Ambient

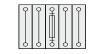
t temperature min/max	Storage	-55 +110 °C	-67 +230 °F
	Installing	-5 +40 °C	+23 +104 °F
	Service	-55 +110 °C	-67 +230 °F

#### **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

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



1 fuse and 4 feed-through blocks



5 fuse blocks

#### **Environmental Characteristics** Additional climatic tests

Dry heat		IEC 60068-2 2	Compliant
	Conditions	Temperature	+100 °C
		Duration of test	96 h
Cyclic damp heat		IEC 60068-2 30	Compliant
	Conditions	Temperature	+55 °C
		Relative humidity	
		Number of cycles (1 cycle = 24h)	2
Cold		IEC 60068-2 1	Compliant
	Conditions	Temperature	-40 °C
		Duration of test	96 h
Damp heat steady state		IEC 60068-2-78	
	Conditions	Temperature	
		Relative humidity	
		Duration of test	

### Corrosion

Salt mist		IEC 60068-2 11	Compliant
	Conditions	Duration of test	96 h
		Concentration	5 %
SO2		ISO 6988	Compliant
	Conditions	Duration of test	48 h
		Concentration	0.2 dm <sup>3</sup>
Flowing mixed gas corrosion test		IEC 60068-2 60	
	Conditions	Number of the test method	
		Duration of test	

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Sinusoidal vibrations		IEC 60068-2-6 Compliant
	Conditions	Frequency range 10 55 Hz
		Number of cycles 10
		Acceleration 10 m/s <sup>2</sup>
Functional random vibrations		IEC 61373
Category 1 Class B 3 axes	Conditions	Duration of test
		Frequency range
		Acceleration
ong life testing at increased random	vibrations	IEC 61373
Category 1 Class B 3 axes	Conditions	Duration of test
		Frequency range
		Acceleration
Shock		IEC 61373
Category 1 Class B 3 axes	Conditions	Duration of test
		Acceleration

### **ZS70-PE Terminal Block Accessories Compatibility**

ne accessories may modify the terminal b				Matalat	
Description	Туре	Order Code	Pack <sup>(ing)</sup>	Weight	
			pieces	g (1 pce)	
Terminal Block Markers	MG-CPM 13	1SNB041791R0612	1680	0.273	
	MC812	1SNK160000R0000	22	10.00	
	MC812-YL	1SNK160004R0000	22	10.00	
	MC812PA	1SNK169999R0000	20	14.00	
	UMH	1SNK900611R0000	10	0.20	
	PROCAP8	1SNK900613R0000	20	1.00	
	SAT8	1SNK900616R0000	5	6.00	
2 End Stops	BAZH1	1SNK900102R0000	20	24.00	
			1	1	

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## 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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