



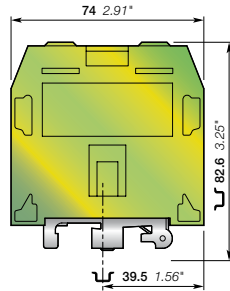
ZS70-PE Screw Clamp Terminal Block Ground



70 mm²
00 AWG

22 mm 0.866 in Spacing

Features and Benefits



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

3D CAD outline drawings available on "Control Product 3D" portal

Ordering Details	Type	Order Code	EAN Code	Pack ^(ing)	Weight g (1 pce)
Green-Yellow	ZS70-PE	1SNK 522 150 R0000	3472595221509	10	222.00

Declarations and Certificates		Document Part Number
CE	UE Directive	1SND 225 094 C1003
CB	Third Party Certificate	1SND 161 035 A0200
RoHS	RoHS	1SND 230 491 F0203
Atex Declaration	Atex Declaration	1SND 225 085 C1003

Explosive Atmosphere: ATEX Classification

Group Category	Protection Method
IM 2	Ex e: increased security
II 2GD *	

* 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 guarantee the terminal block electrical, mechanical and environmental performance.

Protection		IP 10	<i>NEMA 1</i>		
Rail		DIN3-TH35			
Wire stripping length		25 mm	<i>0.984 in</i>		
		Screw clamp		Screw rail contact (Maximum value)	
		Allen Key			
Operating tool		6 mm	<i>0.236 in</i>	4 mm	<i>0.158 in</i>
Torque		6.5 Nm ± 0.5 Nm	<i>57.5 lb.in</i> <i>± 4.4 lb.in</i>	2 Nm ± 0.5 Nm	<i>17.7 lb.in</i> <i>± 4.4 lb.in</i>
Mechanical endurance of disconnect system					

Material Specifications

Insulating material	Polyamide				
IRC	600 V				
Flammability	UL94 V0				
	NF F 16 101				
	Needle flame test IEC 60695-11-5 Compliant				

Connecting capacity per clamp

1 Rigid conductor		16-95 mm²		<i>4-00 AWG</i>
1 Flexible conductor without ferrule		16-70 mm²		<i>4-00 AWG</i>
1 Flexible conductor with ferrule				
Ferrule maximum outer diameter		Ø Max.		

Multi Connecting capacity per clamp

2 Rigid conductors				
2 Flexible conductors without ferrule				
2 Flexible conductors with twin ferrule				

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

Cross section

Rated cross section		70 mm²		<i>00 AWG</i>
Maximum Cross section	Manufacturer data	70 mm²	<i>Manufacturer data</i>	<i>00 AWG</i>
Gauge	B11 / 14 mm / 0.551 in / IEC 60947-7-1			

Electrical characteristics

Current

Rated current	IEC 60947-7-1			
	Field and factory wiring Cat.2	UL 1059		
	Factory wiring Cat. 1	UL 1059		
		CSA-C-22.2 n° 158		
Rated short-time withstand current 1 s (I _{cw})				8400 A
Short-time withstand current	0.5 s	Manufacturer data		
	5 s	Manufacturer data		
	10 s	Manufacturer data		
	30 s	Manufacturer data		
	1 mn	Manufacturer data		
Rated short circuit withstand	CSA-C-22.2 n° 158			
Max. current (45° temperature increase) / Max. cross section (mm ²)	Manufacturer data			70 mm²
Maximum short circuit current (1s)	Manufacturer data			8400 A

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR UL 1059

With the following configurations:

Maximum voltage

Suitable conductor wire range

Fuse rating

Fuse designation

Fuse manufacturer name

Fuse type

Short circuit current

Voltage

Rated voltage IEC 60947-1

Rated voltage UL 1059

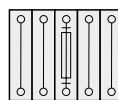
Use Group UL 1059 **C**

Rated voltage CSA-C-22.2 n° 158

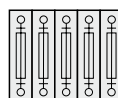
Rated voltage Ex e IEC/EN 60079-11

Rated impulse withstand voltage **8000 V**Dielectric test voltage **2200 V**Pollution degree IEC 60947-1 **3**Overvoltage category IEC 60947-1 **III****Dissipated power**

Maximum dissipated power at rated current IEC

Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3Overload and short-circuit protection
Separate arrangement

1 fuse and 4 feed-through blocks

Exclusive short-circuit protection
Separate arrangementOverload and short-circuit protection
Compound arrangement

5 fuse blocks

Exclusive short-circuit protection
Compound arrangement**Temperature range**Ambient temperature min/max Storage **-55 +110 °C** -67 +230 FInstalling **-5 +40 °C** -23 +104 FService IEC 60068-2-1 **-55 +110 °C** -67 +230 FEN 60079-7 **-55 +85 °C**

Current Derating curve for continuous service temperature

Environmental Characteristics

Additional climatic tests

Dry heat	Conditions	IEC 60068-2-2	Compliant	
		Temperature	+100 °C	
		Duration of test	96 h	
Cyclic damp heat	Conditions	IEC 60068-2-30	Compliant	
		Temperature	+55 °C	
		Number of cycles	2	
Cold	Conditions	IEC 60068-2-1	Compliant	
		Temperature	-40 °C	
		Duration of test	96 h	
Z/ABDM climatic sequence	Conditions	IEC 60068-2-61	Compliant	
		Dry heat Duration of test / Temperature	16 h	+85 °C
		Cyclic damp heat Number of cycles / Temperature	1	+55 °C
		Cold Duration of test / Temperature	2 h	-25 °C

Corrosion

Salt mist	Conditions	IEC 60068-2-11	Compliant	
		Duration of test	96 h	
		Concentration	5 %	
SO ₂	Conditions	ISO 6988	Compliant	
		Duration of test	48 h	
		Concentration	0.2 dm³	
Sulfur dioxide	Conditions	IEC 60068-2-42		
		Duration of test		
Hydrogen sulfur	Conditions	IEC 60068-2-43		
		Duration of test		
Flowing mixed gas corrosion test	Conditions	IEC 60068-2-60		
		Number of the test method		
		Duration of test		

Vibrations

Vibrations	Conditions	IEC 60068-2-6	Compliant	
		Frequency range	10-55 Hz	
		Number of cycles	10	
		Amplitude		
		Acceleration	10 m/s²	
Random vibrations and climatic sequence	Conditions	IEC 60068-2-64		
		Duration of test		
		Frequency range		
		Acceleration		
	Climatic cycles			
		Step 1 -> Temperature / Duration of test		
		Step 2 -> Temperature / Duration of test		
		Temperature variation per minute		

ZS70-PE Terminal Block Accessories Compatibility

Description		Type	Order Code	Pack ^(ing) pieces	Weight g (1 pce)	Technical Datasheet PDF
1	End Stops	BAZH1	1SNK 900 102 R0000	20	23.90	1SNK 160 026 D0201
2	Terminal Block Markers	MC812	1SNK 160 000 R0000	22	0.09	1SNK 160 009 D0201
		UMH	1SNK 900 611 R0000	10	0.20	1SNK 160 001 D0201
		PROCAP8	1SNK 900 613 R0000	20	1.00	1SNK 160 013 D0201
		SAT8	1SNK 900 616 R0000	5	6.00	1SNK 160 013 D0201