



ZS4-S Screw Clamp Terminal Block

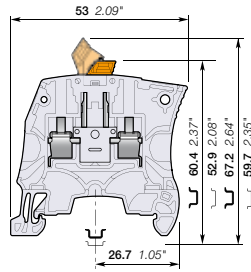
Disconnect



4 mm²
10 AWG

5.2 mm 0.205 in Spacing

Features and Benefits



- Ease your disconnect operations with the disconnect blade operated by hand or with a screwdriver,
- Same profile as ZS4 feed-through terminal block for aligned marking and identical end section use.

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

Ordering Details	Type	Order Code	EAN Code	Pack ^(fing)	Weight g (1 pce)
Grey	<input type="checkbox"/> ZS4-S	1SNK 505 310 R0000	3472595053100	50	8.60
Blue	<input type="checkbox"/> ZS4-S-BL	1SNK 505 320 R0000	3472595053209	50	8.60
Orange	<input type="checkbox"/> ZS4-S-OR	1SNK 505 330 R0000	3472595053308	50	8.60

Declarations and Certificates	Document Part Number
CE UE Directive	1SND 225 099 C1001
RoHS RoHS	1SND 230 491 F0203

General Information

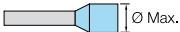
The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.

Protection		IP 20	NEMA 1		
Rail		DIN3-TH35			
Wire stripping length		10.5 mm	0.413 in		
		Screw clamp		Screw rail contact (Maximum value)	
Operating tool		Flat screwdriver			
		3.5 mm	0.138 in		
Torque		0.6 Nm ± 0.1 Nm	5.31 lb.in ± 0.885 lb.in	± 0.1 Nm	± 0.885 lb.in
Mechanical endurance of disconnect system					

Material Specifications

Insulating material		Polyamide
IRC		600 V
Flammability	UL94	V0
	NF F 16 101	I2F2
	Needle flame test IEC 60695-11-5	Compliant

Connecting capacity per clamp

1 Rigid conductor		0.2-4 mm²		24-10 AWG
1 Flexible conductor without ferrule		0.22-4 mm²		24-10 AWG
1 Flexible conductor with ferrule		0.22-4 mm²		24-12 AWG
Ferrule maximum outer diameter		4.7 mm		0.185 in

Multi Connecting capacity per clamp

2 Rigid conductors		0.2-1 mm²		24-18 AWG
2 Flexible conductors without ferrule		0.22-1 mm²		24-18 AWG
2 Flexible conductors with twin ferrule		0.22-1.5 mm²		24-16 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

Cross section

Rated cross section		4 mm²		10 AWG
Maximum Cross section	Manufacturer data	4 mm²	Manufacturer data	10 AWG

Gauge **A3-B3 / 3 mm / 0.118 in / IEC 60947-7-1**

Electrical characteristics

Current

Rated current		IEC 60947-7-1	25 A
	Field and factory wiring Cat.2	UL 1059	25 A
	Factory wiring Cat.1	UL 1059	25 A
		CSA-C-22.2 n° 158	
Rated short-time withstand current 1 s (I _{cw})			480 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	25 A 4 mm²
Maximum short circuit current (1s)		Manufacturer data	480 A

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

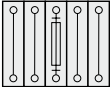
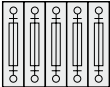
SCCR UL 1059

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		400 V
Rated voltage	UL 1059		150 V
Use Group	UL 1059		C
Rated voltage	CSA-C-22.2 n° 158		150 V
Rated voltage Ex e	IEC/EN 60079-11		
Rated impulse withstand voltage			6000 V
Dielectric test voltage			1890 V
Pollution degree	IEC 60947-1		3
Overvoltage category	IEC 60947-1		III

Dissipated power			
Maximum dissipated power at rated current	IEC		0.8 W

Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3			
Overload and short-circuit protection Separate arrangement			
Exclusive short-circuit protection Separate arrangement	1 fuse and 4 feed-through blocks		
Overload and short-circuit protection Compound arrangement			
Exclusive short-circuit protection Compound arrangement	5 fuse blocks		

Temperature range				
Ambient temperature min/max	Storage		-55 +110 °C	<i>-67 +230 F</i>
	Installing		-5 +40 °C	<i>-23 +104 F</i>
	Service	IEC 60068-2-1 EN 60079-7	-55 +110 °C	<i>-67 +230 F</i>

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		
Hydrogen sulfur	Conditions	IEC 60068-2-43		
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				

ZS4-S Terminal Block Accessories Compatibility

Description	Type	Order Code	Pack ^(ing) pieces	Weight g (1 pce)	Technical Datasheet PDF
1 End Stops	BAM3	1SNK 900 001 R0000	50	13.80	1SNK 160 026 D0201
2 End Sections	ES4	1SNK 505 910 R0000	20	2.18	1SNK 160 022 D0201
3 Circuit Separators	CS-R1	1SNK 900 103 R0000	20	5.20	1SNK 160 018 D0201
4 Shield Connectors	SHBS	1SNK 900 600 R0000	20	3.50	1SNK 160 025 D0201
5 Protecting Covers	CO	1SNK 900 604 R0000	1	300.00	1SNK 160 020 D0201
	PL5	1SNK 900 618 R0000	20	1.50	1SNK 160 021 D0201
6 Protecting Cover Kits	KCO	1SNK 900 624 R0000	1	47,8	1SNK 160 028 D0201
7 Tools	PS-3	1SNK 900 650 R0000	1	380.00	1SNK 160 024 D0201
8 Terminal Block Markers	MC512	1SNK 140 000 R0000	22	0.06	1SNK 160 003 D0201
	PROCAP5	1SNK 900 609 R0000	20	0.70	1SNK 160 013 D0201
	UMH	1SNK 900 611 R0000	10	0.20	1SNK 160 001 D0201
	SAT5	1SNK 900 614 R0000	5	6.00	1SNK 160 013 D0201