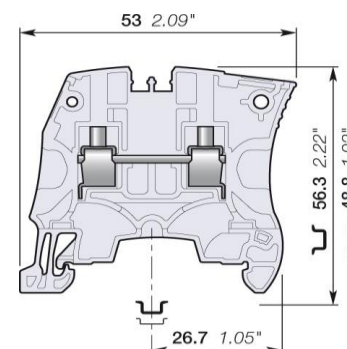




ZS10 Screw Clamp Terminal Blocks Feed-through

Save space by connecting conductors up to 10 mm² (CB certified) 6 AWG in just 8 mm 0.315 in spacing.



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

		10 mm ²
		6 AWG
8 mm 0.315 in Spacing		

Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight (1 pce) g
Grey	ZS10	1SNK508010R0000	3472595080106	50	14.10
Blue	ZS10-BL	1SNK508020R0000	3472595080205	50	14.10
Orange	ZS10-OR	1SNK508030R0000	3472595080304	50	14.10
Yellow	ZS10-YL	1SNK508060R0000	3472595080601	50	14.10
Green	ZS10-GN	1SNK508061R0000	3472595080618	50	14.10
Red	ZS10-RD	1SNK508062R0000	3472595080625	50	14.10
Purple	ZS10-PR	1SNK508063R0000	3472595080632	50	14.10
Brown	ZS10-BR	1SNK508064R0000	3472595080649	50	14.10
White	ZS10-WH	1SNK508065R0000	3472595080656	50	14.10
Black	ZS10-BK	1SNK508066R0000	3472595080663	50	14.10

Declarations and Certificates

CE	CB	RoHS	UL US	UL US	UL US	UL US	UL US	UL US	UL US
			UL US	UL US	UL US	UL US	UL US	UL US	UL US
			UL US	UL US	UL US	UL US	UL US	UL US	UL US
			UL US	UL US	UL US	UL US	UL US	UL US	UL US
			UL US	UL US	UL US	UL US	UL US	UL US	UL US
			UL US	UL US	UL US	UL US	UL US	UL US	UL US
			UL US	UL US	UL US	UL US	UL US	UL US	UL US
			UL US	UL US	UL US	UL US	UL US	UL US	UL US
			UL US	UL US	UL US	UL US	UL US	UL US	UL US

Power and productivity
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Declarations and Certificates




	CE	1SND225081C10*
	CB	1SND161018A02*
	RoHS	1SND230491F02*
	USR CNR	1SND161040A02*
	CSA	1SND161070A02*
	GOST R	1SND161005A11*
	ATEX	1SND162004A17*
	IECEX	1SND162005A17*
	BR-Ex e II	1SND161042A02*
	USR CNR Haz Loc	1SND161047A02*
	BV	1SND161073A02*
	RINA	1SND161088A02*
	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

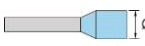
The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.

Protection	IEC 60947-1	IP20		NEMA 1				
Rail	TH35-7.5, TH35-15	TH35-7.5, TH35-15						
Wire stripping length		12 mm	0.472 in					
		Screw clamp		Screw rail contact (Maximum value)		Disconnect device		
Operating tool		Flat screwdriver						
		4 mm	0.157 in					
Torque		1.3 N.m	11.5 lb.in					
		± 0.3 N.m	± 2.65 lb.in					

Material Specifications

Insulating material	Polyamide
CTI	600 V
Flammability	UL94 V0
	NF F 16101 I2F2
	Needle flame test: C 60615-11-5 Compliant

Connecting capacity per clamp

		Screw clamp			
1 Rigid - Solid / Stranded conductor	Norme	IEC60947-7-1	UL1059		
	Value	0.5 ... 10 mm ²	24 ... 6 AWG		
1 Flexible conductor	Norme	IEC60947-7-1			
	Value	0.5 ... 10 mm ²			
1 Flexible conductor with non insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.5 ... 10 mm ²	24 ... 8 AWG		
1 Flexible conductor with insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.5 ... 6 mm ²	24 ... 10 AWG		
Gauge		A5-B5	5.2 mm		
		IEC 60947-1	0.205 in		
Ferrule maximum outer diameter or conductor insulation maximum outer diameter		Ø Max.	Manufacturer data	7.5 mm	0.295 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 conductors	Norme	IEC60947-7-1	UL1059		
	Value	0.5 ... 4 mm ²	20 ... 12 AWG		
2 Flexible conductors	Norme	IEC60947-7-1			
	Value	0.5 ... 4 mm ²			
2 Flexible conductors with twin ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.5 ... 4 mm ²	20 ... 12 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 (crimping capacity up to 10 mm²)

Cross section

Rated cross section	IEC60947-7-1	10 mm ²	UL1059	6 AWG
Maximum Cross section	Manufacturer data	10 mm ²	Manufacturer data	6 AWG

Electrical characteristics

Current

Rated current	IEC60947-7-1		57 A
	Field and factory wiring Cat.2		UL 1059 42 A
	Factory wiring Cat.1		UL 1059 42 A
	CSA-C-22.2 n°158		42 A
Maximum Exe current	IEC/EN 60079-7		57 A
Rated short-time withstand current 1 s (I _{cw})	IEC60947-7-1		1200 A
Short-time withstand current	0.5 s	Manufacturer data	2508 A
	5 s	Manufacturer data	798 A
	10 s	Manufacturer data	570 A
	30 s	Manufacturer data	285 A
	1 min	Manufacturer data	228 A
Rated short-circuit withstand current	CSA-C-22.2 n°158		
Max. current (45° temperature increase) / Max. cross section (mm ²)	Manufacturer data		57 A 10 mm ²
Maximum short circuit current (1s)	Manufacturer data		1200 A

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR	UL 1059	100 kA
With the following configurations:		
Suitable conductor wire range		14 ... 6 AWG
Maximum voltage		600 V
Fuse class / Max. amp. Rating	J	110 A
	T	110 A
	RK1	100 A
	RK5	30 A
	G	60 A
	CC	30 A

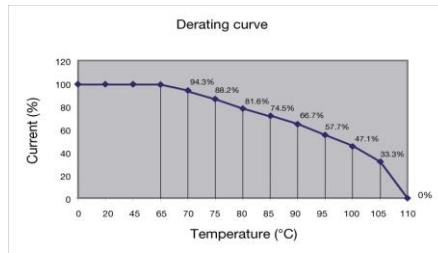
Voltage

Rated voltage	IEC 60947-1	1000 V
Rated voltage	UL 1059	600 V
Use Group	UL 1059	B, C
Rated voltage	CSA-C-22.2 n°158	600 V
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

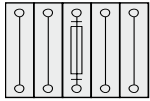
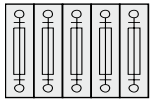
Current Derating curve for continuous service temperature



Dissipated power

Maximum dissipated power at rated current	IEC 60947-1	1.8 W
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	 1 fuse and 4 feed-through blocks	
Separate arrangement / Exclusive short-circuit protection		
Compound arrangement / Overload and short-circuit protection	 5 fuse blocks	
Compound arrangement / Exclusive short-circuit protection		

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

Corrosion

Salt mist	Conditions	IEC 60068-2 11	Compliant
		Duration of test	96 h
		Concentration	5 %
SO2	Conditions	ISO 6988	Compliant
		Duration of test	48 h
		Concentration	0.2 dm³
Flowing mixed gas corrosion test	Conditions	IEC 60068-2 60	Compliant
		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	10 ... 55 Hz
		Number of cycles	10
		Acceleration	10 m/s²
Functional random vibrations		IEC 61373	
Category 1 Class B 3 axes	Conditions	Duration of test	
		Frequency range	
		Acceleration	
Long 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	

ZS10 Terminal Block Accessories Compatibility

Some accessories may modify the terminal block's rating. See complete information in the accessories catalog page.

Description	Type	Order Code	Pack ^(ing) pieces	Weight g (1 pce)	
1 End Stops	BAM3	1SNK900001R0000	50	13.80	
	BAZ1	1SNK900002R0000	20	5.30	
2 End Sections	ES4	1SNK505910R0000	20	2.18	
3 Jumper Bars	JB8-2	1SNK908302R0000	50	2.70	
	JB8-3	1SNK908303R0000	50	4.10	
	JB8-4	1SNK908304R0000	50	5.60	
	JB8-5	1SNK908305R0000	40	7.00	
	JB8-10	1SNK908310R0000	20	14.20	
	JB85-3	1SNK900603R0000	10	2.80	
4 Cross Spacing Jumpers	CS	1SNK900101R0000	20	0.20	
5 Circuit Separators	CS-R1	1SNK900103R0000	20	5.20	
	TP2	1SNK900203R0000	20	1.73	
6 Test Adapters	TP4	1SNK900205R0000	20	2.41	
	TC5	1SNK900200R0000	10	5.23	
7 Test Connectors	TC5-R1	1SNK900201R0000	10	5.23	
8 Spacers	ES-TC8	1SNK900104R0000	10	1.35	
9 Protecting Cover Kits	KCO	1SNK900624R0000	1	47.80	
10 Protecting Covers	CO	1SNK900604R0000	1	300.00	
	PL8	1SNK900620R0000	10	2.55	
11 Mounting Rails	PR3.G2	1SNA164800R0300	2		
	PR4	1SNA168500R1200	2	915.00	
	PR5	1SNA168700R2200	2		
	PR30	1SNA173220R0500	2	328.00	
	PR3.Z2	1SNA174300R1700	2		
12 Tools	PS-3	1SNK900650R0000	1	380.00	
13 Terminal Block Markers	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	
14 Screw Clamp Terminal Blocks	ZS10	1SNK508010R0000	50	14.10	

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