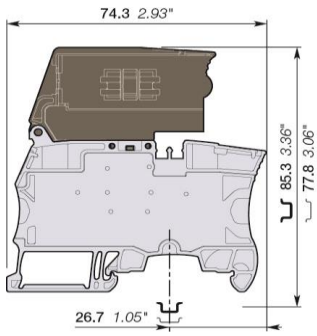
ZS10-SF Screw Clamp Terminal Blocks
For 6.3x32 fuses

- Protect your circuits with 6.3x32 (¼ x 1¼ in) fuse terminal blocks compliant with IEC 60947-7-3 standard (fuse not supplied with the terminal blocks),
- Simplify the distribution thanks to the two jumper channels.



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

		**10 mm²**
		6 AWG
8 mm	*0.315 in*	**Spacing**

Ordering Details

Color	Type	Order Code	EAN Code	Pack[ing]	Weight (1 pce) g
Grey, Dark Grey	ZS10-SF	1SNK508418R0000	3472595084180	50	28.50

Declarations and Certificates

CE	CB	RoHS	USR CNR			EAC			
		BV		DNV					

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Declarations and Certificates

CE	CE	1SND225103U10*
CB	CB	1SND161089A02*
RoHS	RoHS	1SND230516F02*
USR CNR	USR CNR	1SND161041A02*
CSA	CSA	1SND161070A02*
EAC	EAC	1SND161009A11*
BV	BV	1SND161073A02*
DNV	DNV	1SND161087A02*

General Information

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

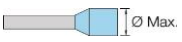
Protection	IEC 60947-1	IP20		*NEMA 1*				
Rail		TH 35-7.5, TH 35-15						
Wire stripping length		13 mm	*0.512 in*					

		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 N.m*					
		± 0.3 N.m	*± 2.65 N.m*					

Material Specifications

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

Connecting capacity per clamp

		Screw clamp			
1 Rigid - Solid / Stranded conductor	Norme				
	Value	0.5 ... 10 mm²	24 ... 6 AWG		
1 Flexible conductor	Norme				
	Value	0.5 ... 10 mm²			
1 Flexible conductor with non insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.5 ... 10 mm²	24 ... 8 AWG		
1 Flexible conductor with insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.5 ... 6 mm²	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			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).

Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded conductors	Norme				
	Value	0.5 ... 4 mm²	20 ... 12 AWG		
2 Flexible conductors	Norme				
	Value	0.5 ... 4 mm²			
2 Flexible conductors with twin ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.5 ... 4 mm²	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		10 mm²		6 AWG
Maximum Cross section	Manufacturer data	10 mm²	Manufacturer data	*6 AWG*

Electrical characteristics

Current

Rated current				10 A
	Field and factory wiring Cat.2		UL 1059	22 A
	Factory wiring Cat.1		UL 1059	22 A
			CSA-C-22.2 n°158	22 A
Maximum Exe current			IEC/EN 60079-7	
Rated short-time withstand current 1 s (Icw)				
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	
Max. current (45° temperature increase) / Max. cross section (mm²)			Manufacturer data	25 A / 10 mm²
Maximum short circuit current (1s)			Manufacturer data	

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	
			T	
			RK1	
			RK5	
			G	
			CC	

Voltage

Rated voltage	IEC 60947-1	630 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	
Rated impulse withstand voltage	IEC 60947-1	6000 V
Dielectric test voltage	IEC 60947-1	2000 V
Pollution degree	IEC 60947-1	3
Overvoltage category	IEC 60947-1	III

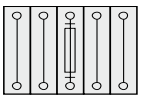
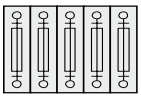
Temperature range

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

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	 1 fuse and 4 feed-through blocks	4
Separate arrangement / Exclusive short-circuit protection		4
Compound arrangement / Overload and short-circuit protection	 5 fuse blocks	2.5
Compound arrangement / Exclusive short-circuit protection		2.5

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^3
Flowing mixed gas corrosion test		IEC 60068-2 60	
	Conditions	Number of the test method	
		Duration of test	

Vibrations and shocks

Sinusoidal vibrations		IEC 60068-2-6	
	Conditions	Frequency range	
		Number of cycles	
		Acceleration	
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-SF 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	Terminal Block Markers	**MG-CPM 13**	**1SNB041791R0612**	1680	0.273	
		MC812	**1SNK160000R0000**	22	10.00	
		MC812PA	**1SNK169999R0000**	20	14.00	
		UMH	**1SNK900611R0000**	10	0.20	
		SAT8	**1SNK900616R0000**	5	6.00	
2	End Stops	**BAM4**	**1SNK900001R0000**	50	14.00	
		BAZ1	**1SNK900002R0000**	50	5.30	
3	Test Connectors	**TC5**	**1SNK900200R0000**	10	5.20	
		TC5-R1	**1SNK900201R0000**	10	5.20	
4	Test Adapters	**TP2**	**1SNK900203R0000**	20	1.70	
		TP4	**1SNK900205R0000**	20	2.40	
5	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	
6	Spacers	**ES-TC8**	**1SNK900104R0000**	10	1.40	

Contact us

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