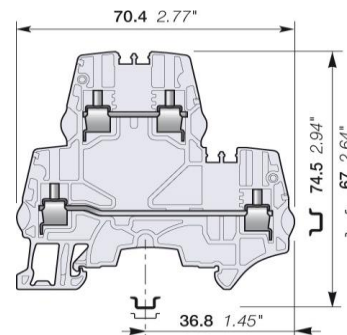




ZS6-D2 Screw Clamp Terminal Blocks

Double deck with 2 feed-through circuits

- Save space with double deck terminal blocks: 2 independent circuits connected in just 6 mm 0.236 in spacing,
- Customize yourself the ZS6-D2 by soldering electronic components (up to 8.8 mm x 3.2 mm 0.346 x 0.125 in) in the existing linking bars punching.



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

		6 mm ²
		10 AWG
6 mm 0.236 in Spacing		

Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight (1 pce) g
Grey	ZS6-D2	1SNK506210R0000	3472595062102	50	18.41
Blue	ZS6-D2-BL	1SNK506220R0000	3472595062201	50	18.41
Orange	ZS6-D2-OR	1SNK506230R0000	3472595062300	50	18.41
Yellow	ZS6-D2-YL	1SNK506260R0000	3472595062201	50	18.4
Red	ZS6-D2-RD	1SNK506262R0000	3472595062201	50	18.4
White	ZS6-D2-WH	1SNK506265R0000	3472595062201	50	18.4
Black	ZS6-D2-BK	1SNK506266R0000	3472595062201	50	18.4

Declarations and Certificates

CE	IEC IECEx CB	RoHS	UL US	UL US	UL US	UL US	UL US	UL US	UL US
CE	CB	RoHS	UL US	UL US	UL US	UL US	UL US	UL US	UL US
BR-Ex e II	Haz Loc	BV	Fina	DNV	ATEX Declaration				

Declarations and Certificates




	CE	1SND225081C10*
	CB	1SND161026A02*
	RoHS	1SND230491F02*
	US119	1SND161040A02*
	CSA	1SND161070A02*
	GOST R	1SND161005A11*
	ATEX	1SND162004A17*
	IECEX	1SND162005A17*
	BR-Ex e II	1SND161042A02*
	US119	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		10 mm	0.394 in					
		Screw clamp		Screw rail contact (Maximum value)		Disconnect device		
Operating tool		Flat screwdriver						
		4 mm	0.157 in					
Torque		0.85 N.m	7.52 lb.in					
		± 0.15 N.m	± 1.33 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	0.2 ... 6 mm ²	24 ... 10 AWG		
1 Flexible conductor	Norme	IEC60947-7-1			
	Value	0.2 ... 6 mm ²			
1 Flexible conductor with non insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 4 mm ²	24 ... 12 AWG		
1 Flexible conductor with insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 4 mm ²	24 ... 12 AWG		
Gauge		A4-B3	3 mm		
		IEC 60947-1	0.118 in		
Ferrule maximum outer diameter or conductor insulation maximum outer diameter		Ø Max.	Manufacturer data	5.5 mm	0.216 in

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm²).

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 conductors	Norme	IEC60947-7-1	UL1059		
	Value	0.2 ... 2.5 mm ²	24 ... 14 AWG		
2 Flexible conductors	Norme	IEC60947-7-1			
	Value	0.2 ... 2.5 mm ²			
2 Flexible conductors with twin ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 2.5 mm ²	24 ... 14 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	6 mm ²	UL1059	10 AWG
Maximum Cross section	Manufacturer data	6 mm ²	Manufacturer data	10 AWG

Electrical characteristics

Current

Rated current	IEC60947-7-1	40 A
	Field and factory wiring Cat.2	UL 1059 30 A
	Factory wiring Cat.1	UL 1059 30 A
	CSA-C-22.2 n°158	30 A
Maximum Exe current	IEC/EN 60079-7	40 A
Rated short-time withstand current 1 s (I _{cw})	IEC60947-7-1	720 A
Short-time withstand current	0.5 s	Manufacturer data 1840 A
	5 s	Manufacturer data 560 A
	10 s	Manufacturer data 400 A
	30 s	Manufacturer data 240 A
	1 min	Manufacturer data 160 A
Rated short-circuit withstand current	UL 1059	
Max. current (45° temperature increase) / Max. cross section (mm ²)	Manufacturer data	41 A 6 mm ²
Maximum short circuit current (1s)	Manufacturer data	720 A

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR	UL 1059	100 kA
With the following configurations:		
Suitable conductor wire range		14 ... 10 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

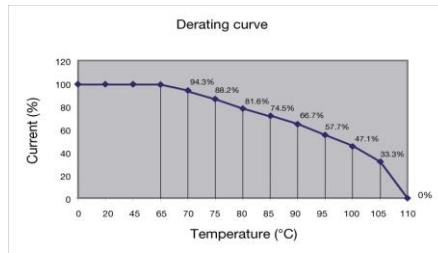
Voltage

Rated voltage	IEC 60947-1	800 V
Rated voltage	UL 1059	300 V
Use Group	UL 1059	B, C
Rated voltage	CSA-C-22.2 n°158	300 V
Rated voltage Ex e	IEC/ EN 60079-7	400 V
Rated impulse withstand voltage	IEC 60947-1	8000 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

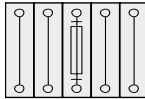
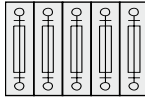
Current Derating curve for continuous service temperature



Dissipated power

Maximum dissipated power at rated current	IEC 60947-1	2.6 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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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	

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

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