



## Declarations and Certificates

	CE		1SND225103U10*
	CB		1SND161030A02*
	RoHS		1SND230491F02*
	USR CNR		1SND161040A02*
	CSA		1SND161070A02*
	EAC		1SND161009A11*
	BV		1SND161073A02*
	RINA		1SND161088A02*
	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		11 mm	0.432 in					
		Screw clamp		Screw rail contact (Maximum value)		Disconnect device		
Operating tool		Flat screwdriver						
		3.5 mm	0.138 in					
Torque		0.6 N.m	5.31 N.m					
		± 0.1 N.m	± 0.885 N.m					

## 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				
	Value	0.2 ... 4 mm <sup>2</sup>	24 ... 10 AWG		
1 Flexible conductor	Norme				
	Value	0.22 ... 4 mm <sup>2</sup>			
1 Flexible conductor with non insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 4 mm <sup>2</sup>	24 ... 12 AWG		
1 Flexible conductor with insulated ferrule	Norme	Manufacturer data	Manufacturer data		
	Value	0.22 ... 4 mm <sup>2</sup>	24 ... 12 AWG		
Gauge		A3-B3	3 mm		
		IEC 60947-1	0.118 in		
Ferrule maximum outer diameter or conductor insulation maximum outer diameter		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 mm<sup>2</sup>).

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			
	Value	0.2 ... 2.5 mm <sup>2</sup>	24 ... 14 AWG	
2 Flexible conductors	Norme			
	Value	0.2 ... 2.5 mm <sup>2</sup>		
2 Flexible conductors with twin ferrule	Norme	Manufacturer data	Manufacturer data	
	Value	0.22 ... 2.5 mm <sup>2</sup>	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 mm<sup>2</sup>)

## Cross section

Rated cross section		4 mm <sup>2</sup>		10 AWG
Maximum Cross section	Manufacturer data	4 mm <sup>2</sup>	Manufacturer data	10 AWG

## Electrical characteristics

### Current

Rated current				6.3 A
	Field and factory wiring Cat.2		UL 1059	10 A
	Factory wiring Cat.1		UL 1059	10 A
			CSA-C-22.2 n°158	6.3 A
Maximum Exe current			IEC/EN 60079-7	
Rated short-time withstand current 1 s (I <sub>cw</sub> )				
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 (mm <sup>2</sup> )		Manufacturer data	6.3 A	4 mm <sup>2</sup>
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	

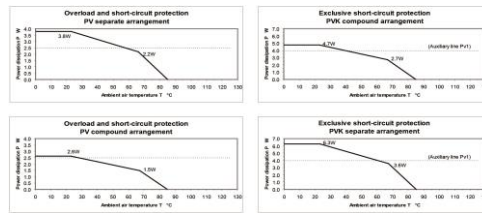
### Voltage

Rated voltage	IEC 60947-1	630 V
Rated voltage	UL 1059	300 V
Use Group	UL 1059	B, C, D
Rated voltage	CSA-C-22.2 n°158	300 V
Rated voltage Ex e	IEC/EN 60079-7	
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

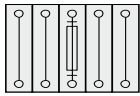
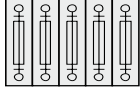
Current Derating curve for continuous service temperature



## Dissipated power

Maximum dissipated power at rated current	IEC 60947-1
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	2.5
Separate arrangement / Exclusive short-circuit protection		4
Compound arrangement / Overload and short-circuit protection	 5 fuse blocks	1.6
Compound arrangement / Exclusive short-circuit protection		4

## 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 %	
SO <sub>2</sub>	Conditions	ISO 6988	Compliant
	Duration of test	48 h	
	Concentration	0.2 dm <sup>3</sup>	
Flowing mixed gas corrosion test	Conditions	IEC 60068-2 60	
	Number of the test method		
	Duration of test		

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