






## General Information


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

Protection		<b>IP 20</b>	<i>NEMA 1</i>		
Rail		<b>DIN3-TH35</b>			
Wire stripping length		<b>10.5 mm</b>	<i>0.413 in</i>		
Operating tool		Screw clamp		Screw rail contact (Maximum value)	
		<b>Flat screwdriver</b>			
		<b>4 mm</b>	<i>0.157 in</i>		
Torque		<b>0.85 Nm</b> <b>± 0.15 Nm</b>	<i>7.52 lb.in</i> <i>± 1.33 lb.in</i>	<b>± 0.15 Nm</b>	<i>± 1.33 lb.in</i>
Mechanical endurance of disconnect system					

## Material Specifications

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

## Connecting capacity per clamp

1 Rigid conductor		<b>0.2-6 mm<sup>2</sup></b>		<i>24-10 AWG</i>
1 Flexible conductor without ferrule		<b>0.22-6 mm<sup>2</sup></b>		<i>24-10 AWG</i>
1 Flexible conductor with ferrule		<b>0.22-4 mm<sup>2</sup></b>		<i>24-10 AWG</i>
Ferrule maximum outer diameter		<b>5.5 mm</b>	<i>0.216 in</i>	

## Multi Connecting capacity per clamp

2 Rigid conductors				
2 Flexible conductors without ferrule				
2 Flexible conductors with twin ferrule				

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		<b>6 mm<sup>2</sup></b>		<i>10 AWG</i>
Maximum Cross section	<b>Manufacturer data</b>	<b>6 mm<sup>2</sup></b>	<i>Manufacturer data</i>	<i>10 AWG</i>
Gauge	<b>A4-B3 / 3 mm / 0.118 in / IEC 60947-7-1</b>			

## Electrical characteristics

### Current

Rated current		IEC 60947-7-1	
	Field and factory wiring Cat.2	UL 1059	
	Factory wiring Cat. 1	UL 1059	
		CSA-C-22.2 n° 158	
Rated short-time withstand current 1 s (I <sub>cw</sub> )			<b>720 A</b>
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 <sup>2</sup> )		Manufacturer data	<b>6 mm<sup>2</sup></b>
Maximum short circuit current (1s)		Manufacturer data	<b>720 A</b>

## 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	

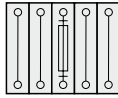
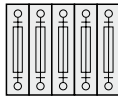
### Voltage

Rated voltage	IEC 60947-1	
Rated voltage	UL 1059	
Use Group	UL 1059	<b>C</b>
Rated voltage	CSA-C-22.2 n° 158	
Rated voltage Ex e	IEC/EN 60079-11	
Rated impulse withstand voltage		<b>8000 V</b>
Dielectric test voltage		<b>2200 V</b>
Pollution degree	IEC 60947-1	<b>3</b>
Overtoltage category	IEC 60947-1	<b>III</b>

### Dissipated power

Maximum dissipated power at rated current	IEC	
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### 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	<b>-55 +110 °C</b>	-67 +230 F
	Installing	<b>-5 +40 °C</b>	-23 +104 F
	Service	IEC 60068-2-1	<b>-55 +110 °C</b>
		EN 60079-7	<b>-55 +85 °C</b>

Current Derating curve for continuous service temperature

## Environmental Characteristics

### Additional climatic tests

Dry heat	Conditions	IEC 60068-2-2	<b>Compliant</b>	
		Temperature	<b>+100 °C</b>	
		Duration of test	<b>96 h</b>	
Cyclic damp heat	Conditions	IEC 60068-2-30	<b>Compliant</b>	
		Temperature	<b>+55 °C</b>	
		Number of cycles	<b>2</b>	
Cold	Conditions	IEC 60068-2-1	<b>Compliant</b>	
		Temperature	<b>-40 °C</b>	
		Duration of test	<b>96 h</b>	
Z/ABDM climatic sequence	Conditions	IEC 60068-2-61	<b>Compliant</b>	
		Dry heat Duration of test / Temperature	<b>16 h</b>	<b>+85 °C</b>
		Cyclic damp heat Number of cycles / Temperature	<b>1</b>	<b>+55 °C</b>
		Cold Duration of test / Temperature	<b>2 h</b>	<b>-25 °C</b>

### Corrosion

Salt mist	Conditions	IEC 60068-2-11	<b>Compliant</b>	
		Duration of test	<b>96 h</b>	
		Concentration	<b>5 %</b>	
SO <sub>2</sub>	Conditions	ISO 6988	<b>Compliant</b>	
		Duration of test	<b>48 h</b>	
		Concentration	<b>0.2 dm<sup>3</sup></b>	
Sulfur dioxide	Conditions	IEC 60068-2-42		
		Duration of test		
Hydrogen sulfur	Conditions	IEC 60068-2-43		
		Duration of test		
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	<b>Compliant</b>	
		Frequency range	<b>10-55 Hz</b>	
		Number of cycles	<b>10</b>	
		Amplitude		
		Acceleration	<b>10 m/s<sup>2</sup></b>	
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			

## ZS6-PE Terminal Block Accessories Compatibility

Description	Type	Order Code	Pack <sup>(ing)</sup> pieces	Weight g (1 pce)	Technical Datasheet PDF
<b>1</b> End Stops	<b>BAM3</b>	<b>1SNK 900 001 R0000</b>	50	13.80	<b>1SNK 160 026 D0201</b>
<b>2</b> End Sections	<b>ES4</b>	<b>1SNK 505 910 R0000</b>	20	2.18	<b>1SNK 160 022 D0201</b>
<b>3</b> Circuit Separators	<b>CS</b>	<b>1SNK 900 101 R0000</b>	20	0.20	<b>1SNK 160 018 D0201</b>
	<b>CS-R1</b>	<b>1SNK 900 103 R0000</b>	20	5.20	<b>1SNK 160 018 D0201</b>
<b>4</b> Test Adapters	<b>TP2</b>	<b>1SNK 900 203 R0000</b>	20	1.73	<b>1SNK 160 036 D0201</b>
	<b>TP4</b>	<b>1SNK 900 205 R0000</b>	20	2.42	<b>1SNK 160 036 D0201</b>
<b>5</b> Test Connectors	<b>TC5</b>	<b>1SNK 900 200 R0000</b>	10	5.23	<b>1SNK 160 042 D0201</b>
	<b>TC5-R1</b>	<b>1SNK 900 201 R0000</b>	10	5.23	<b>1SNK 160 042 D0201</b>
<b>6</b> Spacers	<b>ES-TC6</b>	<b>1SNK 900 105 R0000</b>	10	0.80	<b>1SNK 160 042 D0201</b>
<b>7</b> Protecting Covers	<b>CO</b>	<b>1SNK 900 604 R0000</b>	1	300.00	<b>1SNK 160 020 D0201</b>
<b>8</b> Protecting Cover Kits	<b>KCO</b>	<b>1SNK 900 624 R0000</b>	1	47,8	<b>1SNK 160 028 D0201</b>
<b>9</b> Tools	<b>PS-3</b>	<b>1SNK 900 650 R0000</b>	1	380.00	<b>1SNK 160 024 D0201</b>
<b>10</b> Terminal Block Markers	<b>MC612</b>	<b>1SNK 150 000 R0000</b>	22	0.06	<b>1SNK 160 006 D0201</b>
	<b>UMH</b>	<b>1SNK 900 611 R0000</b>	10	0.20	<b>1SNK 160 001 D0201</b>
	<b>PROCAP6</b>	<b>1SNK 900 612 R0000</b>	20	0.79	<b>1SNK 160 013 D0201</b>
	<b>SAT6</b>	<b>1SNK 900 615 R0000</b>	5	6.00	<b>1SNK 160 013 D0201</b>