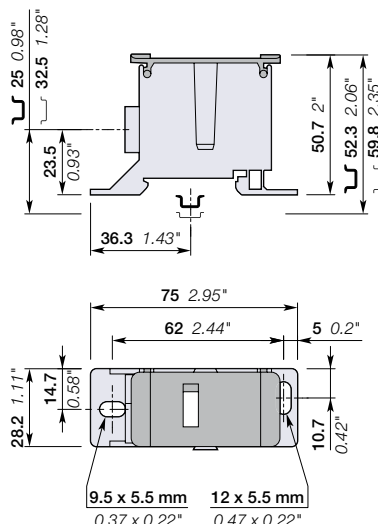


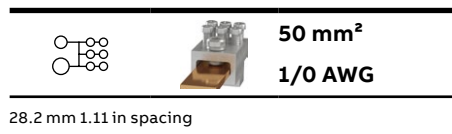
DBL distribution blocks

Single pole



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

- 3 configurations: distribute unipolar and multipolar power lines, or combine several inputs
- Mount it on Din rail or plate and save up to 50% rail space compared to conventional copper bars
- Reduce the assembly time by 80% by avoiding to use fastening and isolating components
- Increase the number of outputs by using the optional input and connecting two DBL together
- Easy identification with the reversible cover and delivered pre-printed markers L1, L2, L3, N, PE, +, -.



Ordering details

Color	Type	Order code	EAN code	Pkg qty	Weight (1 pce)
Grey	DBL160	1SNL316010R0000	3472599856578	1	120 g

Declarations and certificates

CE	IEC CB	RoHS	UL	CSA	EAC	BV
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Flexible without ferrule (IEC V-K, UL class G...K) Not allowed	Flexible with ferrule (IEC V-K, UL class G...K) Allowed	Solid (IEC V-U class 1, UL solid) Allowed	Rigid stranded (IEC V-R class 2, UL class B/C) Allowed
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Declarations and certificates		Document Part Number
 CE	UE	1SND225005U1000
 CB	CB	1SND166005A0201
RoHS	RoHS	1SND230557F0201
 USR	USR	1SND166006A0201
 CSA	CSA	1SND166007A0201
 EAC	EAC	1SND161011A1100
 BV	BV	1SND166008A0200

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

Mounting instructions

	Circuit 1			Circuit 2		
Operating tool	Allen key			Allen key		
		5 mm	0.20 in		3 mm	0.12 in
Torque		6... 10 Nm	53 ... 88 lb.in		2 ... 3 Nm	18 ... 26.5 lb.in
Wire stripping length		18 mm	0.708 in		11 mm	0.43 in

* instructions given for 1 pole, to be repeated on each block module

Insulating material		Polyamide
CTI		600 V
Flammability	UL94	V0
	EN 45545	HL3 R22
	Needle flame test IEC 60695-11-5	Compliant
Connector Material		Brass with tin plating

		Circuit 1		Circuit 2		
1 Rigid - Solid / Stranded conductor 	Norme	IEC 60947-7-1	UL1059	IEC60947-7-1	UL1059	
	Value	16 ... 70 mm²	6 ... 2/0 AWG	6 ... 16 mm²	10 ... 6 AWG	
1 Flexible conductor with ferrule 	Norme	IEC 60947-7-1		IEC60947-7-1		
	Value	16 ... 50 mm²	6 ... 1/0 AWG	2.5 ... 16 mm²	14 ... 6 AWG	
			Circuit 3		Circuit 4	
1 Rigid - Solid / Stranded conductor 	Norme					
	Value	2.5 ... 16 mm²	14 ... 6 AWG			
1 Flexible conductor with ferrule 	Norme					
	Value	2.5 ... 16 mm²	14 ... 6 AWG			
Ferrule maximum outer diameter or conductor insulation maximum outer diameter	 Ø Max.					

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
	Value
2 Flexible conductors	Norme
	Value
2 Flexible conductors with twin ferrule	Norme
	Value

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	50 mm²	UL1059	1/0 AWG
Maximum cross section	Manufacturer data	70 mm²	Manufacturer data	2/0 AWG

Electrical characteristics

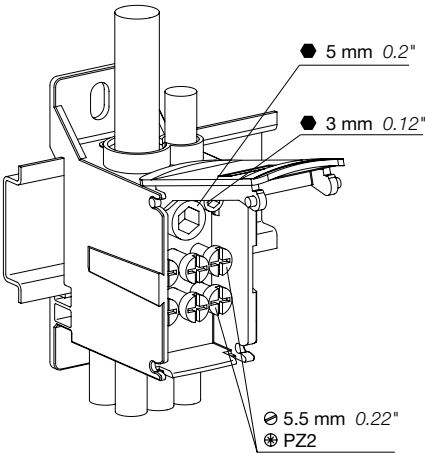
Current

Rated current	IEC60947-7-1		160 A
	Field and factory wiring Cat.2		UL 1059
	Factory wiring Cat.1		UL 1059
	CSA-C-22.2 n° 158		160 A
Maximum Exe current	IEC/EN 60079-7		
Rated short-time withstand current 1 s (Icw)	IEC60947-7-1		6000 A
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 current	UL 1059		
Max. current (45° temperature increase) / Max. cross section (mm²)	Manufacturer data	160 A	70 mm²
Maximum short circuit current (1s)	Manufacturer data		6000 A

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR	UL 1059	100 kA
With the following configurations:		
Suitable conductor wire range	8 ... 2/0 AWG	
Maximum voltage	600 V	
Fuse class / Max. amp. Rating	J	250 A
	T	300 A
	RK1	200 A
	RK5	100 A
	G	60 A
	CC	30 A

Mounting instructions



Flexible without ferrule (IEC V-K, UL class G...K) Not allowed	Flexible with ferrule (IEC V-K, UL class G...K) Allowed	Solid (IEC V-U class 1, UL solid) Allowed	Rigid stranded (IEC V-R class 2, UL class B/C) Allowed
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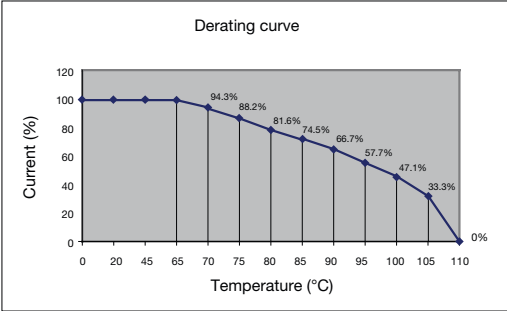
Voltage

Rated voltage	IEC 60947-1	1500 V DC	1000 V AC
Rated voltage	UL 1059	1000 V AC	
Use Group	UL 1059	E	
Rated voltage	CSA-C-22.2 n° 158	1000 V AC	
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 60947-7-1	5.12 W
Maximum dissipated power at maximum Exe current	IEC 60079-7	

DBL terminal block accessories compatibility





Some accessories may modify the terminal block's rating. See complete information in the accessories "Technical Datasheet".

Environmental characteristics

Additional climatic tests





Cyclic damp heat	IEC 60068-2-30	Compliant
Conditions	Temperature	55 °C
	Relative humidity	95 %
	Number of cycles (1 cycle = 24h)	2
Damp heat steady state	IEC 60068-2-78	Compliant
Conditions	Temperature	40 °C
	Relative humidity	93 %
	Duration of test	96 h

DBL terminal block accessories compatibility

Description			Color	Type	Order code	Pkg qty	Weight (1 pce) g
End stops	10 mm	0.394 in	Dark	 BAM4	1SNK900001R0000	50	14.00
	5.2 mm	0.205 in	grey	BAZ1	1SNK900002R0000	50	5.30
	10 mm	0.394 in		BAZH1	1SNK900102R0000	20	24.00
Terminal block markers	Blank marker		White	 MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	Blank card			MC512PA	1SNK149999R0000	20	10.00
			Green	 MC512PA-GN	1SNK149997R0000	20	10.00
			Blue	 MC512PA-BL	1SNK149998R0000	20	10.00

Flexible without ferrule (IEC V-K, UL class G...K) <input type="checkbox"/> Not allowed	Flexible with ferrule (IEC V-K, UL class G...K) <input checked="" type="checkbox"/> Allowed	Solid (IEC V-U class 1, UL solid) <input checked="" type="checkbox"/> Allowed	Rigid stranded (IEC V-R class 2, UL class B/C) <input checked="" type="checkbox"/> Allowed
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 <div>Flexible without ferrule (IEC V-K, UL class G...K)</div> <div>⊘ Not allowed</div>	 <div>Flexible with ferrule (IEC V-K, UL class G...K)</div> <div>✓ Allowed</div>	 <div>Solid (IEC V-U class 1, UL solid)</div> <div>✓ Allowed</div>	 <div>Rigid stranded (IEC V-R class 2, UL class B/C)</div> <div>✓ Allowed</div>
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