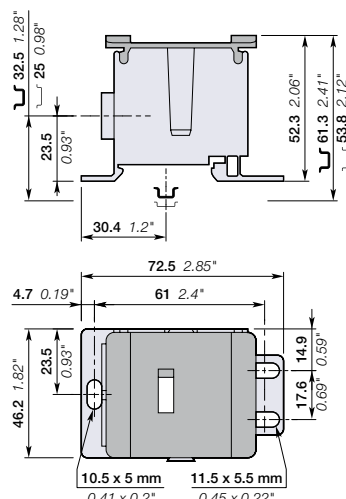


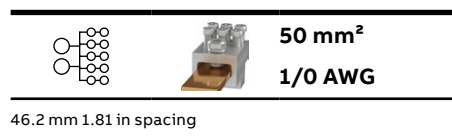
DBL distribution blocks

Single pole



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

- Reduce the assembly time by 80% by avoiding to use fastening and isolating components
- Mount it on Din rail or plate and save up to 50% rail space compared to conventional copper bars
- Increase the number of outputs by using the optional input and connecting two DBL together, or increase the current rating with two wires, 300 A with 50 mm² wires and 350 A with 2/0 AWG wires
- Easy identification with the reversible cover and delivered pre-printed markers L1, L2, L3, N, PE, +, -.



46.2 mm 1.81 in spacing

Ordering details







Color	Type	Order code	EAN code	Pkg qty	Weight (1 pce)
Grey	<input type="checkbox"/> DBL175	1SNL317510R0000	3472599856561	1	200 g

Declarations and certificates

CE	IEC	RoHS	UL	CSA	EAC	BV
----	-----	------	----	-----	-----	----

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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Declarations and certificates

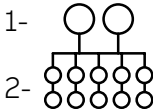










 CE	UE	1SND225005U1000
 CB	CB	1SND166005A0201
 RoHS	RoHS	1SND230557F0201
 UL	UL	1SND166006A0201
 CSA	CSA	1SND166007A0201
 EAC	EAC	1SND161011A1100
 BV	BV	1SND166008A0200

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	IP10	NEMA 1
Rail		TH 35-7.5, TH 35-15	

Mounting instructions

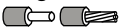

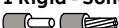


Circuit 1				Circuit 2				
Operating tool	Allen key			Posidriv - flat screwdriver				
		5 mm	0.20 in		5.5 mm	0.22 in		
Torque		6... 10 Nm	53 ... 88 lb.in		2 ... 3 Nm	18 ... 26.5 lb.in		
Wire stripping length		15 mm	0.708 in		11 mm	0.43 in		
Circuit 3				Circuit 4				
Operating tool								
Torque								
Wire stripping length								

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









Material specifications

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	

Connecting capacity per circuit

		Circuit 1		Circuit 2	
 1 Rigid - Solid / Stranded conductor	Norme	IEC 60947-7-1	UL1059	IEC60947-7-1	UL1059
	Value	10 ... 70 mm²	6 ... 2/0 AWG	2.5 ... 16 mm²	14 ... 6 AWG
 1 Flexible conductor with ferrule	Norme	IEC 60947-7-1		IEC60947-7-1	
	Value	10 ... 50 mm²	8 ... 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).

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

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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	2 x 70 mm²	Manufacturer data	2 x 2/0 AWG

Electrical characteristics

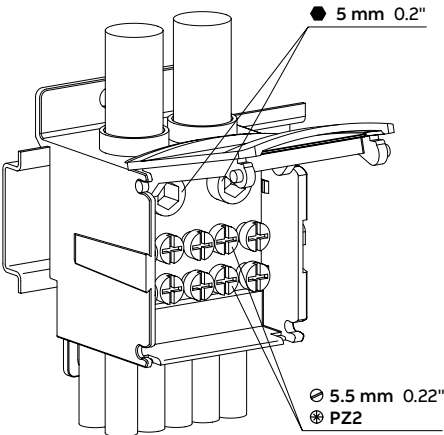
Current

Rated current	IEC60947-7-1		175 A
	Field and factory wiring Cat.2		UL 1059
	Factory wiring Cat.1		175 A
	UL 1059		175 A
Maximum Exe current	CSA-C-22.2 n° 158		175/350 A
Rated short-time withstand current 1 s (Icw)	IEC/EN 60079-7		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	350 A	2 x 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	2 x (6 ... 2/0) AWG	
Maximum voltage	600 V	
Fuse class / Max. amp. Rating	J	600 A
	T	450 A
	RK1	400 A
	RK5	200 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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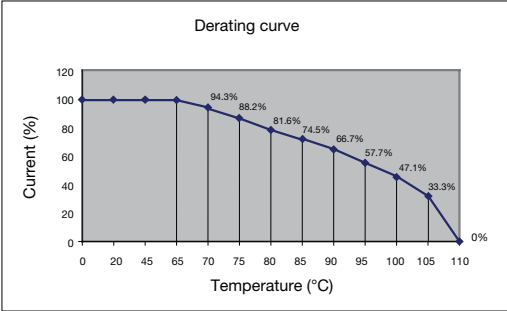
Voltage

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	5.6 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)	 Flexible with ferrule (IEC V-K, UL class G...K)	 Solid (IEC V-U class 1, UL solid)	 Rigid stranded (IEC V-R class 2, UL class B/C)
 Not allowed	 Allowed	 Allowed	 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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ABB France

Electrification Products Division

Low voltage Products and systems

3, rue Jean Perrin

F-69687 Chassieu cedex / France

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