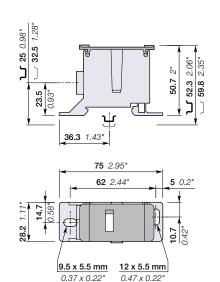


TECHNICAL DATASHEET 1SNC166013D0201 - CATALOGUE PAGE 1SNC166013S0201

DBL distribution blocks

Single pole





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

35 mm²
2 AWG
28.2 mm 1.11 in spacing

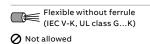
- 3 configurations: distribute unipolar and multipolar power lines, or combine several inputs
- Mount it on Din rail or plate and save up to 50% rail space compared to conventional copper bars
- Reduce the assembly time by 80% by avoiding to use fastening and isolating components
- Increase the number 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, +, -.

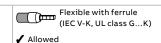
Ordering details

Color	Type	Order code	EAN code	Pkg	Weight
				qty	(1 pce) 9
Grey	☐ DBL125	1SNL312510R0000	3472599856585	1	122

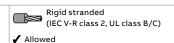
Declarations and certificates

Deciara	occidentations and certificates						
€	IEC TEEF	RoHS	27	(EAC	0	
CE	CB	RoHS	USR	CSA	EAC	BV	









Declarations and certificates Document Part Number Œ UE 1SND225005U1000 IEC IEE СВ 1SND166005A0201 RoHS RoHS 1SND230557F0201 **SN** USR USR 1SND166006A0201 **(1)** CSA 1SND166007A0201 EAC EAC 1SND161011A1100 ΒV 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 IP20 NEMA 1 Rail TH 35-7.5, TH 35-15 **Mounting instructions** Circuit 1 Circuit 2 Operating tool Allen key Allen key 4 mm 0.16 in 3 mm 0.12 in Torque 3.5 ... 5 Nm 31 ... 44 lb.in 2 ... 3 Nm 18 ... 26.5 lb.in Wire stripping length 15 mm 0.59 in 11 mm 0.43 in Circuit 3 Circuit 4 Operating tool Posidriv - flat screwdriver (F) 5.5 mm 0.22 in Torque (Ō) (Ō) 2 ... 3 Nm 18 ... 26.5 lb.in Wire stripping length 11 mm 0.43 in * instructions given for 1 pole, to be repeated on each block module **Material specifications**

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

Connecting	canacity	nor	circuit

			Circuit 1		Circuit 2
Rigid - Solid / Stranded conductor	Norme	IEC 60947-7-1	UL1059	IEC60947-7-1	UL1059
	Value	10 35 mm²	8 2 AWG	6 16 mm²	10 6 AWG
Flexible conductor with ferrule	Norme	IEC 60947-7-1		IEC60947-7-1	
	Value	10 35 mm²	8 2 AWG	2.5 16 mm²	14 6 AWG
			Circuit 3		Circuit 4
Rigid - Solid / Stranded conductor	Norme				
	Value	2.5 16 mm²	14 6 AWG		
Flexible conductor with ferrule	Norme				
	Value	2.5 16 mm²	14 6 AWG		

 $The \ "Connecting \ capacity \ with \ ferrule" \ data \ is \ guaranteed \ with \ ABB \ crimping \ tool \ PS-3 \ (crimping \ capacity \ up \ to \ 10 \ mm^2).$

Flexible without ferrule (IEC V-K, UL class GK)	Flexible with ferrule (IEC V-K, UL class GK)	Solid (IEC V-U class 1, UL solid)	Rigid stranded (IEC V-R class 2, UL class B/C)
	✓ Allowed	✓ Allowed	✓ Allowed

Multi connecting capacity per clamp

2 Rigid - Solid / Stranded	Norme	·
conductors	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 35 mr	m² UL1059	2 AWG
Maximum cross section	Manufacturer data 35 mm	m² Manufacturer data	2 AWG

Electrical characteristics

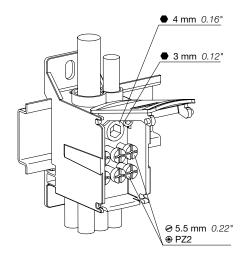
Current

Rated current		IEC60947-7-1	125 A	
	Field and factory wiring Cat.2	UL 1059	115 A	
	Factory wiring Cat.1	UL 1059		
		CSA-C-22.2 n° 158	115 A	
Maximum Exe current		IEC/EN 60079-7		
Rated short-time withstand current	1 s (lcw)	IEC60947-7-1	4200 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 increa	ase) / Max. cross section (mm²)	Manufacturer data	125 A	35 mm²
Maximum short circuit current (1s)		Manufacturer data	4200 A	

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR		UL 1059 100 kA
Nith the following configurations:		
	Suitable conductor wire range	8 2 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



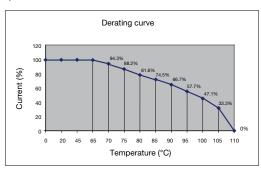
Voltage

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 4 W
Maximum dissipated power at maximum Exe current	IEC 60079-7

DBL terminal block accessories compatibility

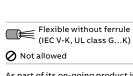
Some accessories may modify the terminal block's rating. See complete information in the accessories "Technical Datasheet".

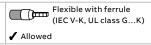
Environmental characteristics Additional climatic tests

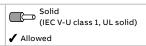
Cyclic damp heat		IEC 60068-2-30	Compliant
	Conditions	Temperature	55 °C
		Relative humidity	95 %
		Number of cycles (1 cycle = 24h)	2
Damp heat steady state		IEC 60068-2-78	Compliant
	Conditions	Temperature	40 °C
		Relative humidity	93 %
		Duration of test	96 h

DBL terminal block accessories compatibility

Description			Color	Туре	Order code	Pkg Weig
						qty (1 pce)
End stops	10 mm	0.394 in	Dark	BAM4	1SNK900001R0000	50 14.
	5.2 mm	0.205 in	grey	BAZ1	1SNK900002R0000	50 5.
	10 mm	0.394 in	••••••	BAZH1	1SNK900102R0000	20 24.
Terminal block Blank marker		White [☐ MG-CPM 13 41790	1SNB041790R0512	1960 0.2	
markers	Blank car	d		MC512PA	1SNK149999R0000	20 10.
			Green	MC512PA-GN	1SNK149997R0000	20 10.
			Blue	MC512PA-BL	1SNK149998R0000	20 10.











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You can find the address of your local sales organization on the ABB home page



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