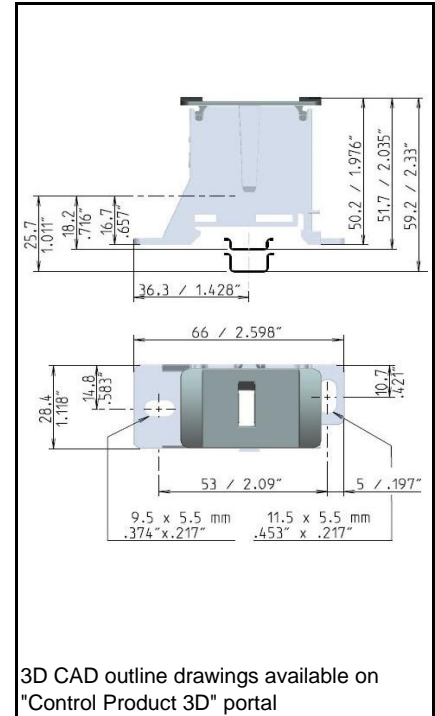


DBL Distribution Terminal Blocks

Single pole

- Save installation time with our modular solutions,
- Ease the installation with plate or rail mounting options on our modular blocks,
- Easily increase the number of outputs using jumpers.



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

		16 mm²
		4 AWG
28.4 mm 1.11 in Spacing		

Ordering Details

Color	Type	Order Code	EAN Code	Pack ^(ing)	Weight (1 pce) g
Grey	DBL80	1SNC166012B0201	3472599856592	1	70

Declarations and Certificates

CE	CB	RoHS	USR		EAC			

Declarations and Certificates

	CE	1SND225171C10*
	CB	1SND166005A02*
	RoHS	1SND230557F02*
	USR	1SND166006A02*
	CSA	1SND166007A02*
	EAC	1SND161009A11*

In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D

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	Posidriv - flat screwdriver			Posidriv - flat screwdriver			
		5.5 mm	0.22 in		5.5 mm	0.22 in	
Torque		1.5 ... 2 N.m	13.5... 18 lb.in		0.8 ... 1.2	7 .. 11lb.in	
Wire stripping length		15 mm	0.59 in		11 mm	0.429 in	

	Circuit 3			Circuit 4		
Operating tool						
Torque						
Wire stripping length						

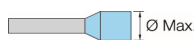
Material Specifications

Insulating material	Polyamide
CTI	600 V
Flammability	UL94 V0
	NF F 16101 I2F2
	Needle flame test :C 60615-11-5 Compliant

Connecting capacity per circuit

		Circuit 1		Circuit 2	
1 Rigid - Solid / Stranded conductor	Norme	IEC60947-7-1	UL1059	IEC60947-7-1	UL1059
	Value	2.5 ... 16 mm ²	14 ... 4 AWG	2.5 ... 6 mm ²	14 ... 10 AWG
1 Flexible conductor	Norme	IEC60947-7-1	UL1059	IEC60947-7-1	UL1059
	Value	2.5 ... 16 mm ²	14 ... 6 AWG	2.5 ... 6 mm ²	14 ... 10 AWG
		Circuit 3		Circuit 4	
1 Rigid - Solid / Stranded conductor	Norme				
	Value				
1 Flexible conductor	Norme				
	Value				

Ferrule maximum outer diameter or conductor insulation maximum outer diameter



The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm²).

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			
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	16 mm ²	UL1059	4 AWG
Maximum Cross section	Manufacturer data	16 mm ²	Manufacturer data	4 AWG

Electrical characteristics

Current

Rated current	IEC60947-7-1		80 A
	Field and factory wiring Cat.2		UL 1059
	Factory wiring Cat.1		UL 1059
	CSA-C-22.2 n°158		80 A
Maximum Exe current	IEC/EN 60079-7		
Rated short-time withstand current 1 s (I _{cw})	IEC60947-7-1		1900 A
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 ²)	Manufacturer data	80 A	16 mm ²
Maximum short circuit current (1s)	Manufacturer data		1900 A

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR	UL 1059	100 kA
With the following configurations:		
Suitable conductor wire range		14 ...4 AWG
Maximum voltage		600 V
Fuse class / Max. amp. Rating	J	110 A
	T	175 A
	RK1	100 A
	RK5	30 A
	G	60 A
	CC	30 A

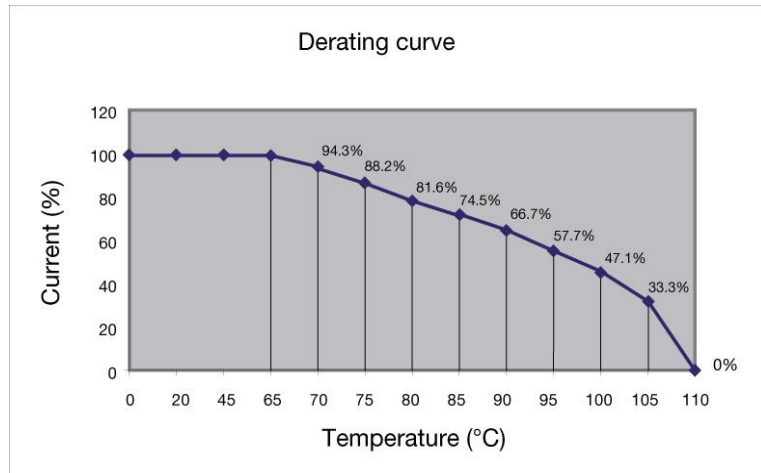
Voltage

Rated voltage	IEC 60947-1	1500 V DC / 1000 V AC
Rated voltage	UL 1059	1000 V
Use Group	UL 1059	E
Rated voltage	CSA-C-22.2 n°158	1000 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	2.56 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 catalog page.

Description	Type	Order Code	Pack ^(ing) pieces	We g (1)
1 End Stops	BAM2	1SNA206351R1600	50	12
	BADL	1SNA399903R0200	50	4.7
	BADH	1SNA116900R2700	50	20
2 Terminal block markers	MC512PA	1SNK149002R0000	1	10
	MC512	1SNK140000R0000	22	9

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