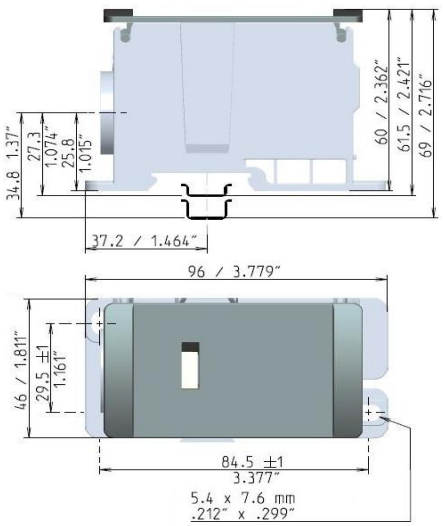
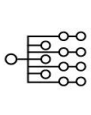
DBL Distribution Terminal Blocks
Single pole

- Save installation time with our modular solutions,
- Ease the installation with plate or rail mounting options on our modular blocks.



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



185 mm²	
400 AWG	
46 mm *1.81 in*	**Spacing**

Ordering Details

Color	Type	Order Code	EAN Code	Pack(ing)	Weight (1 pce) g
Grey	DBL400	1SNL340010R0000	3472599856547	1	410

Declarations and Certificates

CE	CB	RoHS	USR			EAC			
CE	IEC TECEE	RoHS	USR						

Declarations and Certificates

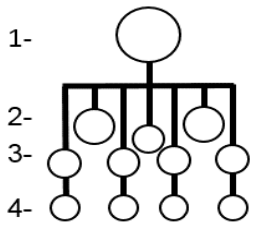
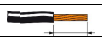
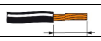
CE	CE	1SND225171C10*
CB	CB	1SND166005A02*
RoHS	RoHS	1SND230557F02*
USR	USR	1SND166006A02*
CSA	CSA	1SND166007A02*
EAC	EAC	1SND161009A11*

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			Flat screwdriver			
		8 mm	*0.31 in*		5.5 mm	*0.22 in*	
Torque		25 N.m	*221 lb.in*		3.5 .. 5 N.m	*31 .. 44 lb.in*	
Wire stripping length		28 mm	*1.092 in*		11 mm	*0.43 in*	

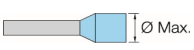
	Circuit 3			Circuit 4		
Operating tool	Flat screwdriver			Flat screwdriver		
		4 mm	*0.16 in*		4 mm	0.16 in
Torque		2 .. 3 N.m	*18 .. 26.5 lb.in*		2 .. 3 N.m	*18 .. 26.5 lb.in*
Wire stripping length		11 mm	*0.43 in*		11 mm	*0.43 in*

Material Specifications

Insulating material		Polyamide
CTI		600 V
Flammability	UL94	V0
	NF F 16101	I2F2
	Needle flame test IEC 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	35 .. 185 mm²	*3/0 .. 400 kcmil*	2.5 … 35 mm²	*14 ... 2 AWG*
1 Flexible conductor	Norme	IEC60947-7-1	UL1059	IEC60947-7-1	UL1059
	Value	35 ... 150 mm²	*3/0 .. 300 kcmil*	2.5 ... 25 mm²	*14 ... 4 AWG*
		Circuit 3		**Circuit 4**	
1 Rigid - Solid / Stranded conductor	Norme	IEC60947-7-1	UL1059	IEC60947-7-1	UL1059
	Value	2.5 .. 16 mm²	*14 .. 6 AWG*	2.5 .. 10 mm²	*14 .. 8 AWG*
1 Flexible conductor	Norme	IEC60947-7-1	UL1059	IEC60947-7-1	UL1059
	Value	2.5 .. 16 mm²	*14 .. 6 AWG*	2.5 .. 10 mm²	*14 .. 8 AWG*

Ferrule maximum outer diameter or conductor insulation maximum outer diameter				

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	150 mm²	UL1059	400 AWG
Maximum Cross section	Manufacturer data	185 mm²	Manufacturer data	*400 AWG*

Electrical characteristics

Current

Rated current			IEC60947-7-1	400 A
	Field and factory wiring Cat.2		UL 1059	335 A
	Factory wiring Cat.1		UL 1059	
			CSA-C-22.2 n°158	335 A
Maximum Exe current			IEC/EN 60079-7	
Rated short-time withstand current 1 s (Icw)			IEC60947-7-1	21000 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 (mm²)			Manufacturer data	400A / 185 mm²
Maximum short circuit current (1s)			Manufacturer data	21000 A

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR			UL 1059	100 kA
With the following configurations:				
	Suitable conductor wire range			3/0 … 400kcmil 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

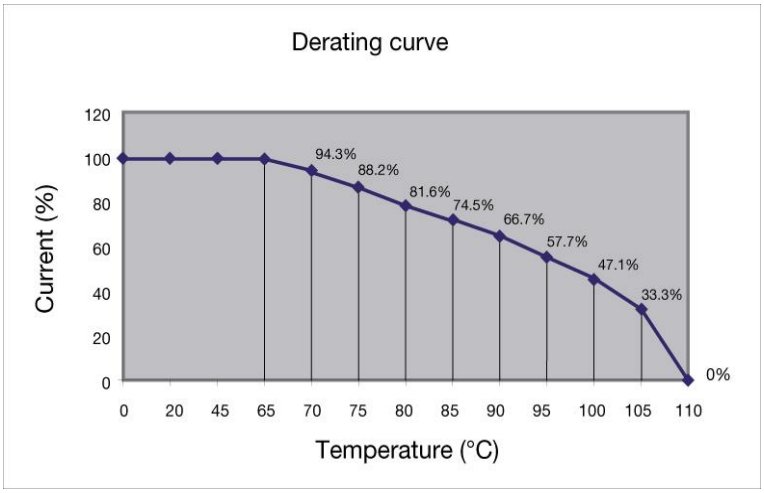
Voltage

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

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	Weight g (1 pce)	
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	

Contact us

ABB France
Low Voltage Products Division
Export Department
10, rue Ampère Z.I. - B.P. 114
F-69685 Chassieu cedex / France
Tel. +33 (0)4 7222 1722
Fax +33 (0)4 7222 1935

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