

Brochure

Solution series Distribution blocks DBL range



Solutions series, distribution blocks DBL range





The clever distribution concept

The exclusive compact and modular design of our distribution blocks allows easy installation combined with a great flexibility of use.









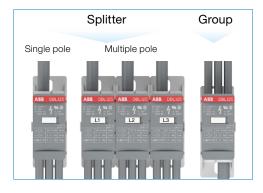


Improve installation efficiency Easy to use

The benefit of 3 configurations in 1 product:

- Single pole splitter of power main input into several outputs
- Multiple poles splitter: interlocking function and ready to use marking kit (L1, L2, L3, N, $\stackrel{\perp}{=}$) delivered with each block.
- Grouping several inputs into 1 output.

Flexible cover facilitates identification & wiring: Reversible, two directions opening, snap-on, all wiring data's and specifications visible on top.





More control in smaller space Panel space saving

Save up to 50% rail space compare to conventional distribution bars thanks to our modular compact design.

Ready for the future: up to 1500 V DC voltage rating adapted to most recent solar inverters requirements.





Cost effective solution Increased productivity

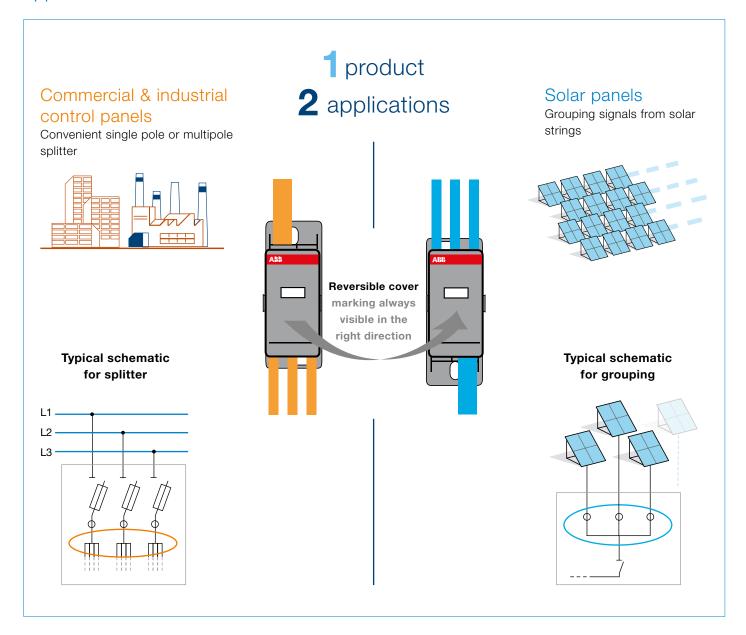
Reduce wiring, inventories, hardware and assembly costs:

- Compatible with aluminum or copper conductor
- Stocks 1 product get 3 configurations
- Reduces assembly time by 80% compare to conventional systems. Our modular and touch proof concept eliminates the need for bus bars, isolators, fasteners, protection screens...



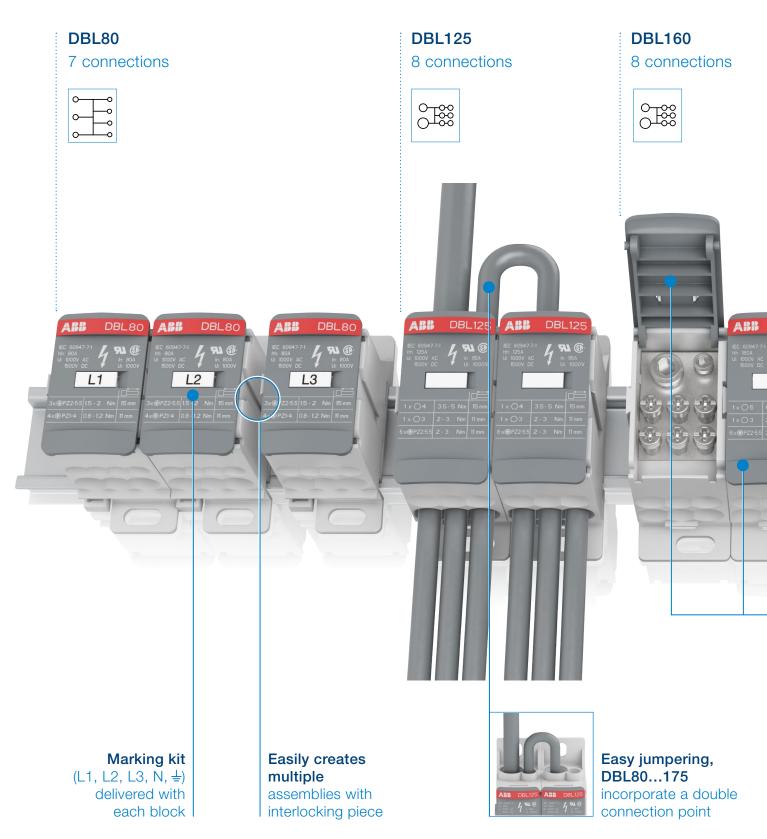
A great flexibility of use whatever your application

Applications



Solutions series, distribution blocks DBL range

Overview from 80 to 400 A Single pole or multipole





DBL250

12 connections



DBL400

12 connections





Flexible cover ease the wiring:

- Two directions opening
- Removable & snap-on

Panel or DIN rail mounting

All wiring data's and specifications visible from top

DBL80 distribution terminal blocks

Single pole - 28.4 mm 1.11 in spacing





DBL80

Description

- 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.

Ordering details

Description		Color	Туре	Order code	Pkg	Weight
				:	qty	(1 pce) g
Feed-through	Single pole distribution, 7 connections	Grey 🔲	DBL80	1SNL308010R0000	1	70

Main technical data

Connecting capacity		IEC	UL	Connection type	Cross section	
Max current / Max	Copper	80 A / 16 mm ²	80 A / 4 AWG	3 x Ø 6.6 mm	2.5 16 mm ²	2.5 16 mm ²
cross section	Aluminium	63 A / 16 mm ²			14 6 AWG	14 4 AWG
Rated voltage		1000 V AC / 1500 V DC	1000 V	4 x Ø 4.5 mm	2.5 6 mm ²	2.5 6 mm ²
Rated impulse voltage	••••••	:		••••••	14 10 AWG	14 10 AWG
Short-time withstand cu	rrent (lcw 1s)	1900 A				
Short Circuit Current Rat	ting (SCCR)	:	100 kA	••••••		
Rated peak withstand cu		27 kA				
Protection		IP20	NEMA 1			

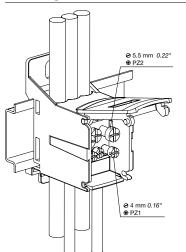
The connecting capacity data for one Rigid - Solid / Stranded - Flexible conductor (when applicable) is a mandatory information required by IEC, UL and CSA standards (Copper conductors). All other data are provided as supplementary information only. For more details, please consult our CB, UL or CSA certificates and technical datasheet available on http://www.ABB.com

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CE	CB	RoHS	USR		CSA		EAC					

66 2.6 **53** 2.09

28.4 mm 1.11 in spacing

Mounting instructions



	T		TH 35-7.5, TH 35-15							
Tool		Diameter of cable Ø		tripping	Recommended torque					
Posidriv - flat screwdriv	er									
5.5 mm 0.22 ir	6.6 mm	0.26 in	15 mm	0.59 in	1.5 2 Nm	13.518 lb.in				
Posidriv - flat screwdriv	er									
4 mm 0.16 ir	4.5 mm	0.18 in	11 mm	0.43 in	0.8 1.2 Nm	7.2 10.8 lb.in				
	į									



Accessories

	Description			Color	Туре	Order code	Pkg	Weight
							qty	(1 pce) g
1	End stops	10 mm	0.394 in	Grey 🔲	BAM2	1SNA206351R1600	50	12.00
		9 mm	0.354 in		BADL	1SNA399903R0200	50	4.70
		12 mm	0.472 in		BADH	1SNA116900R2700	50	20.00
2	Terminal block	Pre-printed m	arker card	White 🗌	MC512PA	1SNK149002R0000	1	10.00
	markers	Blank card			MC512	1SNK140000R0000	22	9.00

Complete list of accessories is indicated in the terminal block datasheet including end stops

Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

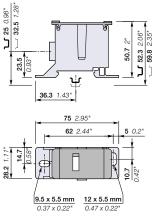
DBL125 distribution terminal blocks

Single pole - 28.2 mm 1.11 in spacing





DBL125



28.2 mm 1.11 in spacing

Description

- 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.

Ordering details

Description		Color	Туре	Order code	Pk	g Weight
					qty	(1 pce) g
Feed-through	Single pole distribution, 8 connections	Grey 🔲	DBL125	1SNL312510R0000	1	120

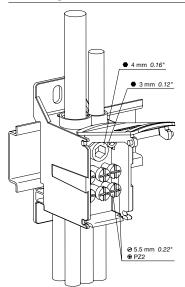
Main technical data

Connecting capacity		IEC	UL	Connection type	Cross section	
Max current / Max	Copper	125 A / 35 mm ²	115 A / 2 AWG	1 x Ø 9.8 mm	10 35 mm ²	10 35 mm ²
cross section	Aluminium	100 A / 35 mm ²			8 2 AWG	8 2 AWG
Rated voltage		1000 V AC / 1500 V DC	1000 V	1 x Ø 6.8 mm	2.5 16 mm ²	6 16 mm ²
Rated impulse voltage				***************************************	14 6 AWG	10 6 AWG
Short-time withstand cu	rrent (lcw 1s)	4000 A		6 x Ø 6.4 mm	2.5 16 mm ²	2.5 16 mm ²
Short Circuit Current Ra	ting (SCCR)	:	100 kA	***************************************	14 6 AWG	14 6 AWG
Rated peak withstand c		30 kA				
Protection	•••••	IP20	NEMA 1	***************************************		

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Mounting instructions



Rail		J			TH 35-7.5, TH 35-15						
Tool		Diameter of cable Ø		Wire st	tripping	Recommended torque					
Allen key											
(4 mm	0.16 in	9.8 mm	0.39 in	15 mm	0.59 in	3.5 5 Nm	31 44 lb.in				
Allen key											
3 mm	0.12 in	6.8 mm	0.27 in	11 mm	0.43 in	2 3 Nm	18 26.5 lb.in				
Posidriv - flat so	crewdriver										
5.5 mm	0.22 in	6.4 mm	0.25 in	11 mm	0.43 in	2 3 Nm	18 26.5 lb.in				



Accessories

-	Description			Color	Туре	Order code	Pkg	Weight
							qty	(1 pce) g
1	End stops	10 mm	0.394 in	Grey	BAM2	1SNA206351R1600	50	12.00
		9 mm	0.354 in	-	BADL	1SNA399903R0200	50	4.70
		12 mm	0.472 in		BADH	1SNA116900R2700	50	20.00
2	Terminal block	Pre-printed	d marker card	White	MC512PA	1SNK149002R0000	1	10.00
	markers	Blank card			MC512	1SNK140000R0000	22	9.00

Complete list of accessories is indicated in the terminal block datasheet including end stops.

Some accessories such as jumper bars may modify the terminal block's ratings. Complete information available in the accessories section of the catalog.

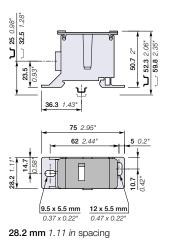
DBL160 distribution terminal blocks

Single pole - 28.2 mm 1.11 in spacing





DBL160



Description

- 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.

Ordering details

3						
Description		Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
Feed-through	Single pole distribution,	Grey 🔲	DBL160	1SNL316010R0000	1	120
	8 connections					

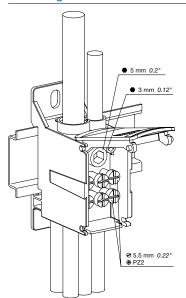
Main technical data

Connecting capacity		IEC	UL	Connection type	Cross section	— —
Max current / Max	Copper	160 A / 70 mm ²	160 A / 2/0 AWG	1 x Ø 11.8 mm	16 50 mm ²	16 70 mm²
cross section	Aluminium	135 A / 70 mm ²			8 1/0 AWG	6 2/0 AWG
Rated voltage	••••	1000 V AC / 1500 V DC	1000 V	1 x Ø 6.8 mm	2.5 16 mm ²	6 16 mm ²
Rated impulse voltage	***************************************			••••••	14 6 AWG	10 6 AWG
Short-time withstand cu	irrent (lcw 1s)	11000 A		6 x Ø 6.4 mm	2.5 16 mm ²	2.5 16 mm²
Short Circuit Current Ra	ating (SCCR)	:	100 kA	• • • • • • • • • • • • • • • • • • • •	14 6 AWG	14 6 AWG
Rated peak withstand of	urrent (lpk)	30 kA				
Protection		IP10	NEMA 1	•••••••••	•	

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CE	CE	3	Ro			JSR	CSA	EAC					

Mounting instructions



Rail		T		TH 35-7.5, TH 35-15					
Tool		Diamete of cable Ø		Wire stripping length		Recommended torque			
Allen key				-					
(5 mm	0.20 in	11.8 mm	0.46 in	18 mm	0.708 in	6 10 Nm	53 88 lb.in		
Allen key						:			
3 mm	0.12 in	6.8 mm	0.27 in	11 mm	0.43 in	2 3 Nm	18 26.5 lb.in		
Posidriv - flat so	rewdriver					:			
5.5 mm	0.22 in	6.4 mm	0.25 in	11 mm	0.43 in	2 3 Nm	18 26.5 lb.in		



Accessories

_	Description		Color	Туре	Order code	Pkg	Weight
			-			qty	(1 pce) g
1	End stops	10 mm 0.394 in	Grey 🗌	BAM2	1SNA206351R1600	50	12.00
		9 mm 0.354 in		BADL	1SNA399903R0200	50	4.70
		12 mm 0.472 in		BADH	1SNA116900R2700	50	20.00
2	Terminal block	Pre-printed marker card	White	MC512PA	1SNK149002R0000	1	10.00
	markers	Blank card		MC512	1SNK140000R0000	22	9.00

Complete list of accessories is indicated in the terminal block datasheet including end stops

Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

DBL175 distribution terminal blocks

Single pole - 46.2 mm 1.81 in spacing









DBL175

Description

- Save installation time with our modular solutions,
- Ease the installation with plate or rail mounting options on our modular blocks,
- Thanks to the two inputs, easily increase the number of outputs using jumper, or increase the current rating with two wires, 300 A with 50 mm² wires and 350 A with 2/0 AWG wires.

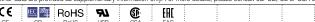
Ordering details

Description		Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
Feed-through	Single pole distribution,	Grey 🔲	DBL175	1SNL317510R0000	1	200
	12 connections					

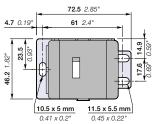
Main technical data

Connecting capacity		IEC	UL	Connection type	Cross section	
Max current / Max	Copper	175 A / 70 mm ²	175 A / 2/0 AWG	2 x Ø 11.8 mm	10 50 mm ²	10 70 mm ²
cross section	Aluminium	135 A / 70 mm ²		••••••	8 1/0 AWG	6 2/0 AWG
Rated voltage		1000 V AC / 1500 V DC	1000 V	10 x Ø 6.4 mm	2.5 16 mm ²	2.5 16 mm ²
Rated impulse voltage	••••	,		***************************************	14 6 AWG	14 6 AWG
Short-time withstand cu	rrent (lcw 1s)	11000 A				
Short Circuit Current Ra	ting (SCCR)	• • • •	100 kA	***************************************	•	:
Rated peak withstand c		30 kA				
Protection		IP10	NEMA 1	***************************************		

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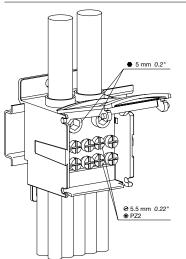


23.5 2.00 25 2



46.2 mm 1.81 in spacing

Mounting instructions



Rail	ᢅ		TH 35-7.5, TH 35-15						
Tool	Diameter of cable Ø		Wire stripping length		Recommended torque				
Allen key									
5 mm 0.20 in	11.8 mm 0.	.46 in	15 mm	0.708 in	6 10 Nm	53 88 lb.in			
Posidriv - flat screwdriver									
5.5 mm 0.22 in	6.4 mm 0.	.25 in	11 mm	0.43 in	2 3 Nm	18 26.5 lb.in			





Accessories

_	Description			Color	Туре	Order code	Pkg	Weight
							qty	(1 pce) g
1	End stops	10 mm	0.394 in	Grey	BAM2	1SNA206351R1600	50	12.00
		9 mm	0.354 in		BADL	1SNA399903R0200	50	4.70
		12 mm	0.472 in		BADH	1SNA116900R2700	50	20.00
2	Terminal block	Pre-printed	marker card	White	MC512PA	1SNK149002R0000	1	10.00
	markers	Blank card			MC512	1SNK140000R0000	22	9.00

Complete list of accessories is indicated in the terminal block datasheet including end stops

Some accessories such as jumper bars may modify the terminal block's ratings. Complete information available in the accessories section of the catalog.

DBL250 distribution terminal blocks

Single pole - 46 mm 1.81 in spacing





95 mm² 250 Kcmil

Description

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

Ordering details

Description		Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
Feed-through	Single pole distribution, 12 connections	Grey 🔲	DBL250	1SNL325010R0000	1	425

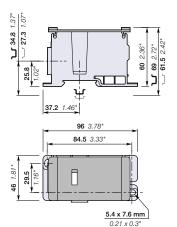
Main technical data

Connecting capacity		IEC	UL	Connection type	Cross section	— —
Max current / Max	Copper	250 A / 120 mm ²	255 A / 250 Kcmil	1 x Ø 15.3 mm	35 95 mm²	35 120 mm ²
cross section	Aluminium	200 A / 120 mm ²		•	2 3/0 AWG	2 250 Kcmil
Rated voltage		1000 V AC / 1500 V DC	1000 V	2 x Ø 8.7 mm	2.5 25 mm ²	2.5 35 mm ²
Rated impulse voltage					14 4 AWG	14 2 AWG
Short-time withstand co	urrent (Icw 1s)	21000 A		5 x Ø 6.4 mm	2.5 16 mm ²	2.5 16 mm ²
Short Circuit Current Ra	ating (SCCR)		100 kA	• • • • • • • • • • • • • • • • • • • •	14 6 AWG	14 6 AWG
Rated peak withstand of	urrent (lpk)	51 kA		4 x Ø 5.7 mm	2.5 10 mm ²	2.5 10 mm ²
Protection		IP10	NEMA 1	•	14 8 AWG	14 8 AWG

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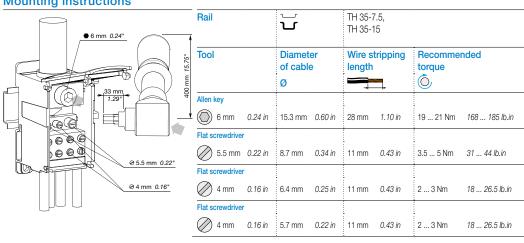
All other data are provided as supplen	mentary information o	nly. For more detail	s, please consult our (CB, UL or CSA certificat	es and technical da	atasheet available or	http://www.ABB.co
CE EB RoHS							

DBL250



46 mm 1.81 in spacing

Mounting instructions





Accessories

	Description			Color	Туре	Order code	Pkg	Weight
							qty	(1 pce) g
1	End stops	10 mm 0.3	394 in	Grey 🔲	BAM2	1SNA206351R1600	50	12.00
		9 mm 0.3	354 in		BADL	1SNA399903R0200	50	4.70
		12 mm 0.4	172 in		BADH	1SNA116900R2700	50	20.00
2	Terminal block			White	MC512PA	1SNK149002R0000	1	10.00
	markers	Blank card			MC512	1SNK140000R0000	22	9.00

Complete list of accessories is indicated in the terminal block datasheet including end stops

Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

DBL400 distribution terminal blocks

Single pole - 46 mm 1.81 in spacing



Description

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



DBL400

Ordering details

Description		Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
Feed-through	Single pole distribution,	Grey 🔲	DBL400	1SNL340010R0000	1	410
	12 connections					

Main technical data

Connecting capacity		IEC	UL	Connection type	Cross section	
Max current / Max	Copper	400 A / 185 mm ²	335 A / 400 Kcmil	1 x Ø 18.8 mm	95 150 mm ²	95 185 mm ²
cross section	Aluminium	300 A / 185 mm ²			3/0 300 Kcmil	3/0 400 Kcmil
Rated voltage		1000 V AC / 1500 V DC	1000 V	2 x Ø 8.7 mm	2.5 25 mm ²	2.5 35 mm ²
Rated impulse voltage					14 4 AWG	14 2 AWG
Short-time withstand c	urrent (Icw 1s)	21000 A	:	5 x Ø 6.4 mm	2.5 16 mm ²	2.5 16 mm²
Short Circuit Current R	ating (SCCR)		100 kA	• • • • • • • • • • • • • • • • • • • •	14 6 AWG	14 6 AWG
Rated peak withstand	current (lpk)	51 kA		4 x Ø 5.7 mm	2.5 10 mm ²	2.5 10 mm ²
Protection	•••••	IP10	NEMA 1	• • • • • • • • • • • • • • • • • • • •	14 8 AWG	14 8 AWG

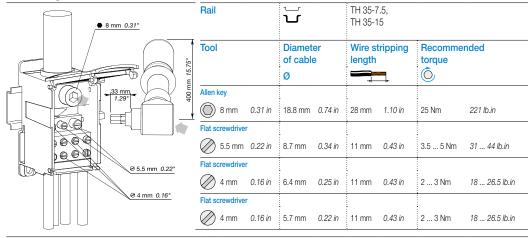
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46 mm 1.81 in spacing

Mounting instructions





Accessories

_	Description			Color	Туре	Order code	Pkg	Weight
							qty	(1 pce) g
1	End stops	10 mm	0.394 in	Grey	BAM2	1SNA206351R1600	50	12.00
		9 mm	0.354 in		BADL	1SNA399903R0200	50	4.70
		12 mm	0.472 in		BADH	1SNA116900R2700	50	20.00
2	Terminal block	erminal block Pre-printed marker card	White	MC512PA	1SNK149002R0000	1	10.00	
	markers	Blank card			MC512	1SNK140000R0000	22	9.00

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