

**ENTRELEC** Terminal Blocks



## The clever distribution concept

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





# Easy to install

3 configurations in 1 product:

**Single pole splitter:** split of power main input into several outputs **Multiple poles splitter:** interlocking function and ready to use marking kit (L1, L2, L3, N, PE, +, -) delivered with each block **Grouping:** of several inputs into 1 output (solar application). **Flexible cover facilitates identification & wiring:** 

- Reversible, two directions opening, snap-on
- All wiring data's and specifications visible on top.



# Space saving

#### Panel space saving:

Save up to 50 % rail space compare to conventional distribution bars thanks to our modular compact design 1 500 V DC:

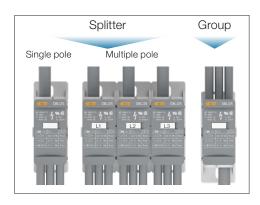
Voltage rating adapted to most recent solar inverters requirements.



# Increased productivity

Reduced wiring, inventories, hardware and assembly costs:

- Reduce assembly time by 80 % compared to conventional systems.
- Our modular and touch proof concept eliminates the needs for bus bars, isolators, fasteners, protection screens...
- Accept aluminum & copper conductors
- 1 product in stock for 3 possible configurations.





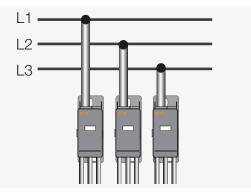




Distributing power in industrial and commercial panels HVAC, machinery, power distribution unit (PDU), commercial panel

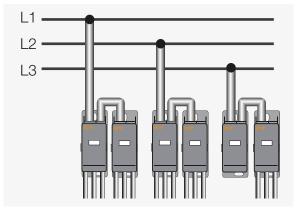
#### 3 Phases

DBL80, DBL125, DBL160, DBL175, DBL250, DBL400, DBL125-3, DBL175-C-3



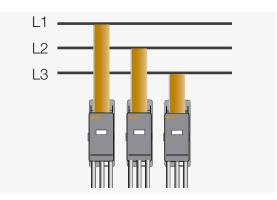
#### 3 Phases with jumpering wire

DBL80, DBL125, DBL160, DBL175, DBL400-PV, DBL125-3, DBL175-C-3 and DBL500-22

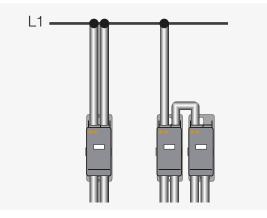


## 3 Phases for flat conductor

DBL250-F, DBL500-F



# 2 in/2 out configuration DBL500-22

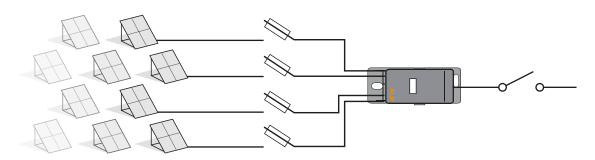


# Combining PV strings in one single output PV combiner box, central inverter in a solar power plant

#### Up to 12 PV strings

DBL80...400

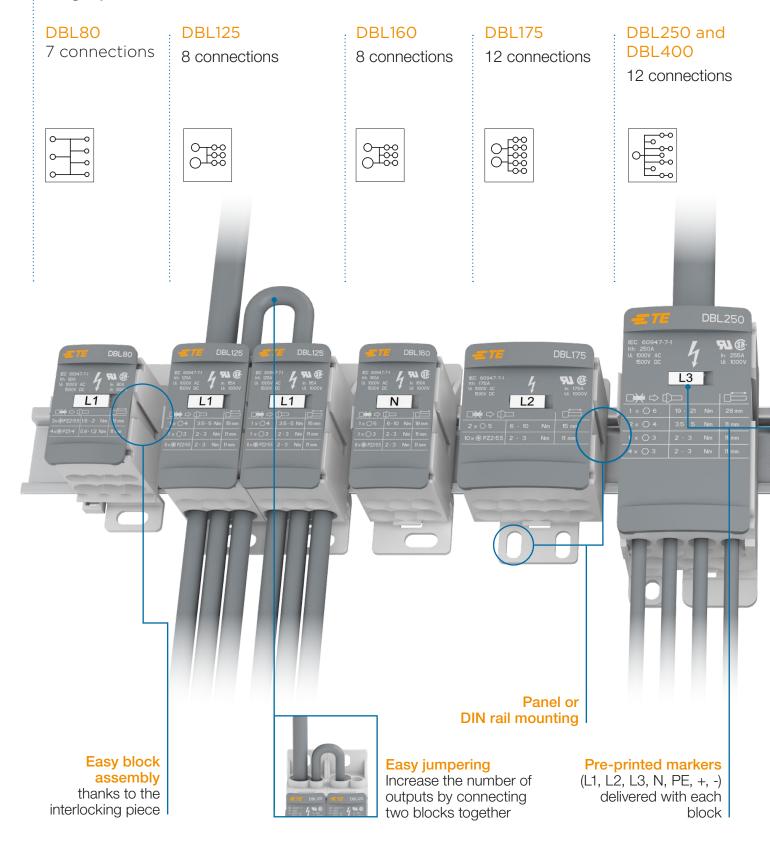
DBL400-PV specifically designed for solar application with 12 inputs of 16 mm<sup>2</sup>.



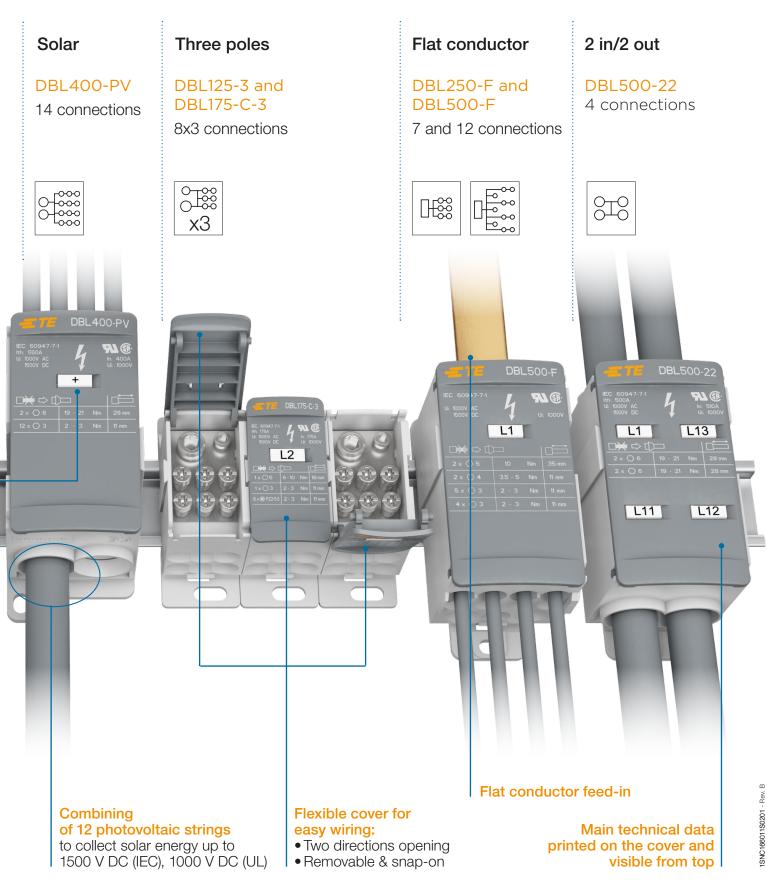


Range overview 1000 V AC / 1500 V DC (IEC) - 1000 V (UL), from 80 to 550 A

# Single pole







# **DBL power distribution blocks** Panorama

							S	Single pole		
	t/ Output nd condu	ictors								DELADO           ME           ME <thme< th=""></thme<>
		Nui	nber of co	nnections	7	8	8	12	12	12
	Max cu		Cross sec	tion					हा <u>न</u> ित्	
Cu	IEC 80 A	UL 80 A	16 mm <sup>2</sup>	4 AWG	0000				0000	0000
Al	63 A	-	16 mm <sup>2</sup>	-	DBL80					
Cu	125 A	115 A	35 mm <sup>2</sup>	2 AWG		DBL125				
Al	100 A	-	35 mm²	-		DBL125				
Cu	160 A	160 A	70 mm <sup>2</sup>	2/0 AWG			DBL160			
AI	135 A	-	70 mm <sup>2</sup>	-			BBEI00			
	175 A	175 A	70 mm <sup>2</sup>	2/0 AWG				DBL175		
Al	135 A	-	70 mm <sup>2</sup>	- OEO Kamil						
Cu Al	250 A 200 A	255 A -	120 mm <sup>2</sup> 120 mm <sup>2</sup>	250 Kcmil					DBL250	
Cu	400 A	335 A	185 mm <sup>2</sup>	400 Kcmil						
Al	300 A	-	185 mm <sup>2</sup>	-						DBL400
Cu	500 A	510 A	95 mm²	250 Kcmil						
Cu	550 A	400 A	95 mm <sup>2</sup>	250 Kcmil						

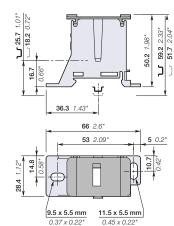
				Flat cor	nductors
Outp	conduct				
			Number of connections	7	12
	Max cu	irrent	Max cross section		
	IEC	UL		888	888
Cu	250 A	250 A	15.5 x 7.5 mm	DBL250-F	
					DBL500-F Coming soon

Three	poles	2 in/2 out	Solar
8x3	8x3	4	14
₩ X3	₩ X3	<u> </u>	<u>~</u> *****
DBL125-3			
	DBL175-C-3		
		DBL500-22	
			DBL400-PV



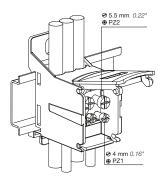
SNC166026W0014

DBL80



0.37 x 0.22" 0.45 x 0.22 28.4 mm 1.11 in spacing

#### **Mounting instructions**



#### Description

- 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**

Description		Color	Туре	Part Number	Pkg	Weight
					qty	1 pce g
Feed-through	Single pole distribution, 7	Grey	DBL80	1SNL308010R0000	1	70
	connections					1

#### Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section	Copper	80 A / 16 mm <sup>2</sup>	80 A / 4 AWG	
	Aluminium	63 A / 16 mm <sup>2</sup>		
Rated voltage		1000 V AC / 1500 V DC	1000 V	
Rated impulse voltage		8 kV		
Short-time withstand current (Icw	1s)	1920 A		
Short Circuit Current Rating (SCC	R)		100 kA	
Rated peak withstand current (lpk	)	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.TE.com

					<u> </u>	
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CE	CB	RoHS	USR	CSA	EAC	BV

#### Mounting & wiring instructions

Connection		Wire type		Wire stripping length	Tool	Torque
Number	Size					Ó
Input						
<b>З</b> х	Ø 6.6 mm Ø 0.26 in	2.5 16 mm² 14 6 AWG	2.5 16 mm² 14 4 AWG	15 mm 0.59 in	5.5 mm 0.22 in	1.5 2 Nm 13.5 18 lb.ir
Output 4 x	Ø 4.5 mm Ø 0.18 in	2.5 6 mm² 14 10 AWG	2.5 6 mm <sup>2</sup> 14 10 AWG	11 mm 0.43 in	4 mm 0.16 in	0.8 1.2 Nm 7.2 10.8 lb.i

Not allowed 🔲 🛒			
Flexible without ferrule (IEC V-K & UL: class 5/6)	Flexible with insulated ferrule (IEC V-K & UL: class 5/6)	Rigid Solid (IEC V-U class 1, UL solid)	Rigid Stranded (IEC V-R class 2, UL class B/C)

Allen key Ø Posidriv - flat screwdriver



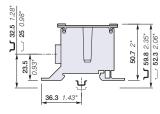
#### Accessories

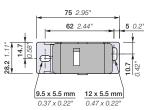
	Description		Color	Туре	Part Number	Pkg	Weight
						qty	1 pce g
1	End stops	10 mm 0.394 in	Dark grey	BAM4	1SNK900001R0000	50	14.00
		5.2 mm 0.205 in		BAZ1	1SNK900002R0000	50	5.30
		10 mm 0.394 in		BAZH1	1SNK900102R0000	20	24.00
2	Terminal block	Blank marker	White	MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	markers	Blank card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
			Blue	MC512PA-BL	1SNK149998R0000	20	10.00
			White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed marker card		MC512PA	1SNK149002R0000	1	10.00
		(L1-L2-L3-N-PE)					



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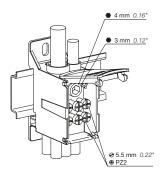
DBL125





28.2 mm 1.11 in spacing

#### **Mounting instructions**



#### Description

- 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**

Description		Color	Туре	Part Number	Pkg	Weight
			-		qty	1 pce g
Feed-through	Single pole distribution, 8	Grey	DBL125	1SNL312510R0000	1	122
	connections					

#### Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section	Copper	125 A / 35 mm <sup>2</sup>	115 A / 2 AWG	
	Aluminium	100 A / 35 mm <sup>2</sup>		
Rated voltage		1000 V AC / 1500 V DC	1000 V	
Rated impulse voltage		8 kV		
Short-time withstand current (Icw	1s)	4200 A		
Short Circuit Current Rating (SCC	R)		100 kA	
Rated peak withstand current (lpk	)	30 kA		
Protection		IP20	NEMA 1	

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CE CB Rohs USR CSA EAC BV	CE 🔤 🕮 Rohs 🔊 🚯 [fi]
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#### Mounting & wiring instructions

Rail	Ъ С	TH 35-7.5, TH 35-15	
Connection	Sizo		Wire

Connection			Wire type		Wire stripping length	Tool	Torque
Number		Size					Ó
Input							
1	х	Ø 9.8 mm Ø 0.39 in	10 35 mm² 8 2 AWG	10 35 mm² 8 2 AWG	15 mm 0.59 in	$(\langle \rangle)$	3.5 5 Nm 31 44 lb.in
Output 1	х		2.5 16 mm <sup>2</sup> 14 6 AWG	6 16 mm²	11 mm 0.43 in		2 3 Nm 18 26.5 lb.in
6	х	Ø64 mm		2.5 16 mm²			2 3 Nm 18 26.5 lb.in
When using	ma	aximum cable size wit	h insulated ferrules, use a	maximum of 2 non-adjace	nt holes in each row.		

Not allowed 🛒			
Flexible without ferrule	Flexible with insulated ferrule	Rigid Solid	Rigid stranded
(IEC V-K & UL: class 5/6)	(IEC V-K & UL: class 5/6)	(IEC V-U class 1, UL solid)	(IEC V-R class 2, UL class B/C)

Accessories



	Description			Color	Туре	Part Number	Pkg	Weight
							qty	<b>1 pce</b> g
1	End stops	10 mm	0.394 in	Dark grey	BAM4	1SNK900001R0000	50	14.00
		5.2 mm	0.205 in		BAZ1	1SNK900002R0000	50	5.30
		10 mm	0.394 in		BAZH1	1SNK900102R0000	20	24.00
2	Terminal block	Blank mark	er	White	MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	markers	Blank card		Green	MC512PA-GN	1SNK149997R0000	20	10.00
				Blue	MC512PA-BL	1SNK149998R0000	20	10.00
				White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed	marker card		MC512PA	1SNK149002R0000	1	10.00
		(L1-L2-L3-N	N-PE)					

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.



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## 00 ₩ X3

#### Description

- The usage of three poles distribution block is recommended for L1, L2, L3 applications
- Each pole can be separated from the assembly to align the poles with upstream equipment configuration
- 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
- Easy identification with the reversible cover and delivered pre-printed markers L1, L2, L3, N, PE, +, -.

#### Ordering details

Description		Color	Туре	Part Number	Pkg	Weight
					qty	<b>1 pce</b> g
Feed-through	Three poles distribution block 3x8	Grey	DBL125-3	1SNL312530R0000	1	367
	connections					

#### Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section	Copper	125 A / 35 mm <sup>2</sup>	115 A / 2 AWG	
	Aluminium	100 A / 35 mm <sup>2</sup>		
Rated voltage		1000 V AC / 1500 V DC	1000 V	
Rated impulse voltage		8 kV		
Short-time withstand current (Icw 1s)		4200 A		
Short Circuit Current Rating (SCCI	7)			
Rated peak withstand current (lpk)		30 kA		
Protection		IP20	NEMA 1	

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#### Mounting & wiring instructions

			15		y.		
Connect	ion		Wire type		Wire stripping length	Tool	Torque
Number by pole		Size					Ó
Input							
•	1 x	Ø 9.8 mm Ø 0.39 in	10 35 mm² 8 2 AWG	10 35 mm² 8 2 AWG	15 mm 0.59 in	0.16 in	3.5 5 Nm 31 44 lb.in
Output	1 x	Ø 6.8 mm	2.5 16 mm <sup>2</sup>	6 16 mm²	11 mm	3 mm	2 3 Nm
		Ø 0.27 in	14 6 AWG	10 6 AWG	0.43 in	0.12 in	18 26.5 lb.ir
L∎_I	6 x	Ø 6.4 mm Ø 0.25 in	2.5 16 mm <sup>2</sup> 14 6 AWG	2.5 16 mm <sup>2</sup> 14 6 AWG	11 mm 0.43 in	5.5 mm 0.22 in	2 3 Nm 18 26.5 lb.ir

This doll with the date of the third of the the the third of the date of the	Not allowed 🔲 🛒		
	Flexible without ferrule (IEC V-K & UL: class 5/6)	 5	5

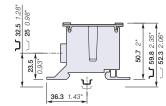
#### Accessories

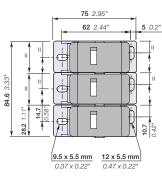
	Description		Color	Туре	Part Number	Pkg	Weight
						qty	1 pce g
1	End stops	10 mm 0.394 in	Dark grey	BAM4	1SNK900001R0000	50	14.00
		5.2 mm 0.205 in		BAZ1	1SNK900002R0000	50	5.30
		10 mm 0.394 in		BAZH1	1SNK900102R0000	20	24.00
2	Terminal block	Blank marker	White	MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	markers	Blank card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
			Blue	MC512PA-BL	1SNK149998R0000	20	10.00
			White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed marker card		MC512PA	1SNK149002R0000	1	10.00
		(L1-L2-L3-N-PE)					

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.



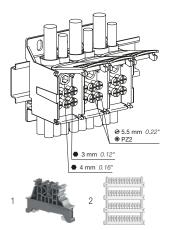
DBL125-3





84.6 mm 3.33 in spacing

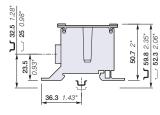
#### **Mounting instructions**

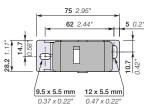


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SNC16

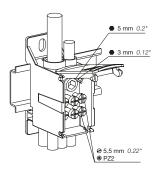
DBL160





28.2 mm 1.11 in spacing

#### **Mounting instructions**



#### Description

- 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**

Description		on Color Type		Part Number	Pkg	Weight	
						qty	1 pce g
Feed-through	Single pole distribution, 8	Grey		DBL160	1SNL316010R0000	1	120
	connections			1			1

#### Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section	Copper	160 A / 70 mm <sup>2</sup>	160 A / 2/0 AWG	
	Aluminium	135 A / 70 mm <sup>2</sup>		
Rated voltage		1000 V AC / 1500 V DC	1000 V	
Rated impulse voltage		8 kV		
Short-time withstand current (Icw	1s)	6000 A		
Short Circuit Current Rating (SCC	R)		100 kA	
Rated peak withstand current (lpk	)	30 kA		
Protection		IP10	NEMA 1	

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CE	IEC IRE	RoHS	91	() ()	EAC	0
CE	CB	RoHS	USR	CSA	EAC	BV

#### Mounting & wiring instructions

Rail	Ľ	TH 35-7.5, TH 35-15
Connection		Win

Connection			Wire type		Wire stripping length	Tool	Torque
Number		Size					Ó
Input							
1	х	Ø 11.8 mm Ø 0.46 in	16 50 mm² 6 1/0 AWG	16 70 mm² 6 2/0 AWG	18 mm 0.708 in	. (( ))	6 10 Nm 53 88 lb.in
Output 1	х	Ø 6.8 mm Ø 0.27 in	2.5 16 mm² 14 6 AWG	6 16 mm² 10 6 AWG	11 mm 0.43 in	÷ (( )) =	2 3 Nm 18 26.5 lb.in
6	X		2.5 16 mm² 14 6 AWG	2.5 16 mm² 14 6 AWG	11 mm 0.43 in	$( \rightarrow                                   $	2 3 Nm 18 26.5 lb.in
When using	g ma	aximum cable size with	h insulated ferrules, use a	maximum of 2 non-adjace	nt holes in each row.		·

Not allowed 🔲 🚝			
Flexible without ferrule	Flexible with insulated ferrule	Rigid Solid	Rigid stranded
(IEC V-K & UL: class 5/6)	(IEC V-K & UL: class 5/6)	(IEC V-U class 1, UL solid)	(IEC V-R class 2, UL class B/C)



#### Accessories

	Description		Color	Туре	Part Number	Pkg	Weight
						qty	1 pce g
1	End stops	10 mm 0.394 in	Dark grey	BAM4	1SNK900001R0000	50	14.00
		5.2 mm 0.205 in		BAZ1	1SNK900002R0000	50	5.30
		10 mm 0.394 in		BAZH1	1SNK900102R0000	20	24.00
2	Terminal block	Blank marker	White	] MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	markers	Blank card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
			Blue	MC512PA-BL	1SNK149998R0000	20	10.00
			White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed marker card		MC512PA	1SNK149002R0000	1	10.00
		(L1-L2-L3-N-PE)					

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.



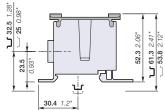
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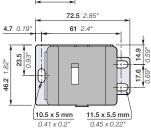
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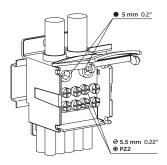
DBL175





46.2 mm 1.81 in spacing

#### **Mounting instructions**



#### Description

- 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 Å with 50 mm<sup>2</sup> wires and 350 Å with 2/0 AWG wires • Easy identification with the reversible cover and delivered pre-printed markers L1, L2, L3, N, PE, +, -.

#### **Ordering details**

Description		Color	Туре	Part Number	Pkg	Weight
					qty	<b>1 pce</b> g
Feed-through	Single pole distribution, 12	Grey	DBL175	1SNL317510R0000	1	200
	connections					

#### Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section	Copper	175 A / 70 mm <sup>2</sup>	175 A / 2/0 AWG	
	Aluminium	135 A / 70 mm <sup>2</sup>		
Rated voltage		1000 V AC / 1500 V DC	1000 V	
Rated impulse voltage		8 kV		
Short-time withstand current (Icw	1s)	6000 A		
Short Circuit Current Rating (SCC)	R)		100 kA	
Rated peak withstand current (lpk)		30 kA		
Protection		IP10	NEMA 1	

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CE EB ROHS SUSR CSA EAC	Ø
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#### Mounting & wiring instructions

Rail	<ul><li>TH 35</li><li>TH 35</li></ul>	,				
Connection Number	Size	Wire type		Wire stripping length	ΤοοΙ	Torque
Input	Ø 11.8 mm	10 50 mm²	10 70 mm²	15 mm	5 mm	6 10 Nm
2 x	Ø 0.46 in	8 1/0 AWG	6 2/0 AWG	0.708 in	0.20 in	53 88 lb.in
Output 10 x	Ø 6.4 mm	2.5 16 mm²	2.5 16 mm²	11 mm	5.5 mm	2 3 Nm
	Ø 0.25 in	14 6 AWG	14 6 AWG	0.43 in	0.22 in	18 26.5 lb.in

K & UL: class 5/6) (IEC V-K & UL: class 5/6) (IEC V-U class 1, UL solid) (IEC V-R class 2, UL class B/
--

Allen key Soldriv - flat screwdriver

Accessories

#### 

	Description			Color	Туре	Part Number	Pkg	Weight
							qty	1 pce g
1	End stops	10 mm	0.394 in	Dark grey	BAM4	1SNK900001R0000	50	14.00
		5.2 mm	0.205 in		BAZ1	1SNK900002R0000	50	5.30
		10 mm	0.394 in		BAZH1	1SNK900102R0000	20	24.00
2	Terminal block	Blank mark	er	White	MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	markers	Blank card		Green	MC512PA-GN	1SNK149997R0000	20	10.00
				Blue	MC512PA-BL	1SNK149998R0000	20	10.00
				White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed	I marker card		MC512PA	1SNK149002R0000	1	10.00
		(L1-L2-L3-1	N-PE)					



0 0 ₩ X3

#### Description

- The usage of three poles distribution block is recommended for L1, L2, L3 applications
- Each pole can be separated from the assembly to align the poles with upstream equipment configuration
- 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
- Easy identification with the reversible cover and delivered pre-printed markers L1, L2, L3, N, PE, +, -.

#### **Ordering details**

Description		Color	Туре	Part Number	Pkg	Weight
					qty	<b>1 pce</b> g
Feed-through	Three poles distribution block 3x8	Grey	DBL175-C-3	1SNL317531R0000	1	360
	connections					

#### Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section	Copper	175 A / 70 mm <sup>2</sup>	175 A / 2/0 AWG	
	Aluminium	135 A / 70 mm <sup>2</sup>		
Rated voltage		1000 V AC / 1500 V DC	1000 V	
Rated impulse voltage		8 kV		
Short-time withstand current (Icw 1:	s)	6000 A		
Short Circuit Current Rating (SCCR	)			
Rated peak withstand current (lpk)		30 kA		
Protection		IP10	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.TE.com



#### Mounting & wiring instructions

-			·		*	1	*_
N	Connection Number by pole	Size	Wire type		Wire stripping length	Tool	Torque
Ī	nput						
F	<b>i</b>	Ø 11.8 mm	16 50 mm <sup>2</sup>	16 70 mm <sup>2</sup>	18 mm	5 mm	6 10 Nm
L	▼ 1 x	Ø 0.46 in	8 1/0 AWG	6 2/0 AWG	0.708 in	0.20 in	53 88 lb.in
C	Output 1 x	Ø 6.8 mm	2.5 16 mm <sup>2</sup>	6 16 mm <sup>2</sup>	11 mm	3 mm	2 3 Nm
Г		Ø 0.27 in	14 6 AWG	10 6 AWG	0.43 in	0.12 in	18 26.5 lb.i
		Ø 6.4 mm	2.5 16 mm <sup>2</sup>	2.5 16 mm <sup>2</sup>	11 mm	5.5 mm	2 3 Nm
_	6 X	Ø 0.25 in	14 6 AWG	14 6 AWG	0.43 in	🐼 0.22 in	18 26.5 lb.ii

	Not allowed 🔲 🛒			
Flexible without terrule         Flexible with insulated ferrule         Rigid Solid         Rigid stranded           (IEC V-K & UL: class 5/6)         (IEC V-K & UL: class 5/6)         (IEC V-L & UL: class 5/6)         (IEC V-L & UL: class 5/6)         (IEC V-L & UL: class 5/6)	Flexible without ferrule (IEC V-K & UL: class 5/6)	Flexible with insulated ferrule (IEC V-K & UL: class 5/6)	Rigid Solid (IEC V-U class 1, UL solid)	5

Allen key
Ø Posidriv - flat screwdriver

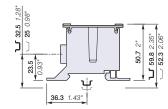
#### Accessories

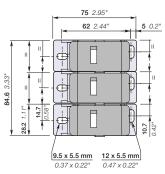
	Description		Color	Туре	Part Number	Pkg	Weight
						qty	1 pce g
1	End stops	10 mm 0.394 in	Dark grey	BAM4	1SNK900001R0000	50	14.00
		5.2 mm 0.205 in		BAZ1	1SNK900002R0000	50	5.30
		10 mm 0.394 in		BAZH1	1SNK900102R0000	20	24.00
2	Terminal block	Blank marker	White	MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	markers	Blank card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
			Blue	MC512PA-BL	1SNK149998R0000	20	10.00
			White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed marker card		MC512PA	1SNK149002R0000	1	10.00
		(L1-L2-L3-N-PE)					

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-C-3





84.6 mm 3.33 in spacing

#### **Mounting instructions**

• 5.5 mm 0.22° • P22 m 0.12° m 0.16°

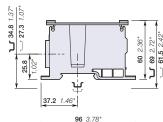


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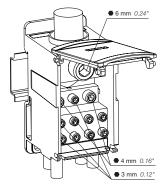


DBL250



46 mm 1.81 in spacing

#### **Mounting instructions**



#### Description

- 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
- Easy identification with the reversible cover and delivered pre-printed markers L1, L2, L3, N, PE, +, -.

#### **Ordering details**

<b>-</b>						
Description		Color	Туре	Part Number	Pk	g Weight
					qty	1 pce g
Feed-through	Single pole distribution, 12	Grey	DBL250	1SNL325010R0000	1	439

#### Main technical data

Connecting capacity		IEC	UL
Max current / Cross section	Copper	250 A / 120 mm <sup>2</sup>	255 A / 250 Kcmil
	Aluminium	200 A / 120 mm <sup>2</sup>	
Rated voltage		1000 V AC / 1500 V DC	1000 V
Rated impulse voltage		8 kV	
Short-time withstand current (Icw	1s)	11400 A	
Short Circuit Current Rating (SCC	R)		100 kA
Rated peak withstand current (lpk	)	51 kA	
Protection	Protection		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.TE.com

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#### Mounting & wiring instructions

Connectio		Wire type		Wire stripping length	Tool	Torque
Number	Size					Ó
Input						
	Ø 15.3 mm	35 95 mm <sup>2</sup>	35 120 mm <sup>2</sup>	28 mm	6 mm	19 21 Nm
	x Ø 0.60 in	2 3/0 AWG	2 250 Kcmil	1.10 in	0.24 in	168 185 lb.i
0	Ø 8.7 mm	2.5 25 mm <sup>2</sup>	2.5 35 mm <sup>2</sup>	11 mm	🔿 4 mm	3.5 5 Nm
2 Output –	x Ø 0.34 in	14 4 AWG	14 2 AWG	0.43 in	0.16 in	31 44 lb.in
	Ø 6.4 mm	2.5 16 mm <sup>2</sup>	2.5 16 mm <sup>2</sup>	11 mm	🔿 3 mm	2 3 Nm
<sup>0</sup>	x Ø 0.25 in	14 6 AWG	14 6 AWG	0.43 in	0.12 in	18 26.5 lb.ir
Υ .	Ø 5.7 mm	2.5 10 mm <sup>2</sup>	2.5 10 mm <sup>2</sup>	11 mm	3 mm	2 3 Nm
• 4	x Ø 0.22 in	14 8 AWG	14 8 AWG	0.43 in	0.12 in	18 26.5 lb.ir

Notallowed

Flexible without ferrule	Flexible with insulated ferrule	Rigid Solid	Rigid stranded	
(IEC V-K & UL: class 5/6)	(IEC V-K & UL: class 5/6)	(IEC V-U class 1, UL solid)	(IEC V-R class 2, UL class B/C)	

Allen key
Posidriv - flat screwdriver



# Accessories

	Description		Color	Туре	Part Number	Pkg	Weight
						qty	1 pce g
	End stops	10 mm 0.394 in	Dark grey	BAM4	1SNK900001R0000	50	14.00
		5.2 mm 0.205 in		BAZ1	1SNK900002R0000	50	5.30
		10 mm 0.394 in		BAZH1	1SNK900102R0000	20	24.00
2	Terminal block	Blank marker	White	MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	markers	Blank card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
			Blue	MC512PA-BL	1SNK149998R0000	20	10.00
			White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed marker card (L1-L2-L3-N-PE)		MC512PA	1SNK149002R0000	1	10.00

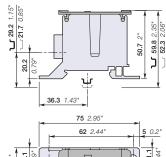


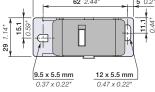
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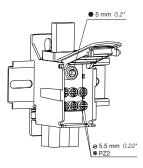
DBL250-F





29 mm 1.14 in spacing

#### **Mounting instructions**



#### Description

- Suitable for distributing power from flat conductors: flexible or solid bars
- 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
- Easy identification with the reversible cover and delivered pre-printed markers L1, L2, L3, N, PE, +, -.

#### **Ordering details**

Description		Color	Туре	Part Number		Pkg	Weight
						qty	1 pce g
Feed-through	Single pole distribution - Flat entry, 7	Grey	DBL250-F	1SNL325060R0000		1	119
	connections						

#### Main technical data

Connecting capacity		IEC	UL
Max current / Cross section	Flexible busbar	250 A / 6 x 15.5 x 0.8 mm	250 A / 6 x 15.5 x 0.8 mm
	Rigid busbar	208 A / 12 x 4 mm	160 A / 12 x 4 mm
Rated voltage		1000 V AC / 1500 V DC	1000 V
Rated impulse voltage		8 kV	
Short-time withstand current (Icw	1s)	11400 A	
Short Circuit Current Rating (SCC	R)		Please consult us
Rated peak withstand current (lpk	Rated peak withstand current (lpk)		
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.TE.com

CE	RoHS	91	SP.	EAC
CE	BoHS	USB	CSA	FAC

## Mounting & wiring instructions

Connection		Wire type		Wire stripping length	Tool	Torque
Number	Size					Ó
Input						
<b>↓</b> 1 x	15.5 x 7.5 mm	12 x 4 mm	3 x 9 x 0.8 mm	15 mm	5 mm	13.5 Nm
	0.59 x 0.28 in		6 x 15.5 x 0.8 mm	0.59 in	0.20 in	120 lb.in
Output 6 x	Ø 6.6 mm	2.5 16 mm <sup>2</sup>	2.5 16 mm <sup>2</sup>	11 mm	🔊 5.5 mm	2 3 Nm
	Ø 0.26 in	14 6 AWG	14 6 AWG	0.43 in	5.5 mm 0.22 in	18 26.5 lb.ir

Not allowed 💭 🛒				Solid busbar	Flexible busbar
Flexible without ferrule (IEC V-K & UL: class 5/6)	Flexible with insulated ferrule (IEC V-K & UL: class 5/6)	Rigid Solid (IEC V-U class 1, UL solid)	Rigid stranded (IEC V-R class 2, UL class B/C)		

Allen kev Posidriv - flat screwdriver



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#### Accessories

	Description		Color	Туре	Part Number	Pkg	Weight
						qty	1 pce g
1	End stops	10 mm 0.394 in	Dark grey	BAM4	1SNK900001R0000	50	14.00
		5.2 mm 0.205 in		BAZ1	1SNK900002R0000	50	5.30
		10 mm 0.394 in		BAZH1	1SNK900102R0000	20	24.00
2	Terminal block	Blank marker	White	MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	markers	Blank card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
			Blue	MC512PA-BL	1SNK149998R0000	20	10.00
			White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed marker card		MC512PA	1SNK149002R0000	1	10.00
		(L1-L2-L3-N-PE)					

Complete list of accessories is indicated in the terminal block datasheet including end sto block's ratings: Complete information available in the accessories section of the catalog. ding end stops. Some accessories such as jumper bars may modify the tern

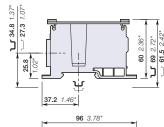


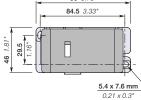
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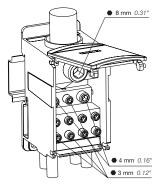
DBL400





46 mm 1.81 in spacing

#### **Mounting instructions**



#### Description

- 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
- Easy identification with the reversible cover and delivered pre-printed markers L1, L2, L3, N, PE, +, -.

#### Ordering details

Description		Color	Туре	Part Number	Pkg	Weight
				7	qty	1 pce g
Feed-through	Single pole distribution, 12 connections	Grey	DBL400	1SNL340010R0000	1	425

#### Main technical data

Connecting capacity		IEC	UL
Max current / Cross section	Copper	400 A / 185 mm <sup>2</sup>	335 A / 400 Kcmil
	Aluminium	300 A / 185 mm <sup>2</sup>	
Rated voltage		1000 V AC / 1500 V DC	1000 V
Rated impulse voltage		8 kV	
Short-time withstand current (Icw	1s)	18000 A	
Short Circuit Current Rating (SCC)	R)		100 kA
Rated peak withstand current (lpk)		51 kA	
Protection		IP10	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.TE.com

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## Mounting & wiring instructions

Connectio	on	Wire type		Wire stripping length	Tool	Torque
Number	Size					Ó
Input						
<b>F1</b>	Ø 18.8 mm	95 150 mm²	95 185 mm²	28 mm	🔿 8 mm	25 Nm
	x Ø 0.74 in	3/0 300 Kcmil	3/0 400 Kcmil	1.10 in	0.31 in	221 lb.in
	Ø 8.7 mm	2.5 25 mm <sup>2</sup>	2.5 35 mm <sup>2</sup>	11 mm	🔿 4 mm	3.5 5 Nm
2 	x Ø 0.34 in	14 4 AWG	14 2 AWG	0.43 in	0.16 in	31 44 lb.in
	Ø 6.4 mm	2.5 16 mm <sup>2</sup>	2.5 16 mm <sup>2</sup>	11 mm	3 mm	2 3 Nm
	Ø 0.25 in	14 6 AWG	14 6 AWG	0.43 in	0.12 in	18 26.5 lb.ir
Ψ .	Ø 5.7 mm	2.5 10 mm <sup>2</sup>	2.5 10 mm <sup>2</sup>	11 mm	3 mm	2 3 Nm
• 4	0.22 in	14 8 AWG	14 8 AWG	0.43 in	0.12 in	18 26.5 lb.ir

Flexible without ferrule (IEC V-K & UL: class 5/6)         Flexible with insulated ferrule (IEC V-K & UL: class 5/6)         Rigid Solid (IEC V-U class 1, UL solid)         Rigid stranded (IEC V-R class 2, UL class B/C)	110/0		5		
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Allen key Ø Posidriv - flat screwdriver



#### Accessories

	Description		Color	Туре	Part Number	Pkg	Weight
							1 pce g
1	End stops	10 mm 0.394 in	Dark grey	BAM4	1SNK900001R0000	50	14.00
		5.2 mm 0.205 in		BAZ1	1SNK900002R0000	50	5.30
		10 mm 0.394 in		BAZH1	1SNK900102R0000	20	24.00
2	Terminal block	Blank marker	White	MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	markers	Blank card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
			Blue	MC512PA-BL	1SNK149998R0000	20	10.00
			White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed marker card		MC512PA	1SNK149002R0000	1	10.00
		(L1-L2-L3-N-PE)					

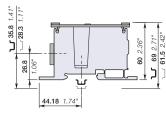


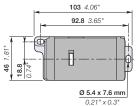
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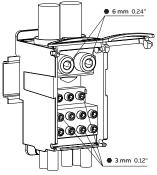
DBL400-PV





46 mm 1.81 in spacing

#### **Mounting instructions**



#### Description

- Suitable for solar application with the possibility to combine 12 photovoltaic strings
- 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**

Description		Color	Туре	Part Number		Pkg	Weight
						qty	1 pce g
Feed-through	Single pole distribution, 14	Grey	DBL400-PV	1SNL340011R0000		1	202
	connections			1	-	1	1

#### Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section	Copper	550 A / (2x) 95 mm²	400 A / (2x) 250 Kcmil	
Rated voltage		1000 V AC / 1500 V DC	1000 V	
Rated impulse voltage		8 kV		
Short-time withstand current (Icw	1s)	22800 A		
Short Circuit Current Rating (SCC	R)		Please consult us	
Rated peak withstand current (lpk	)	47.88 kA		
Protection		IP10	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.TE.com

CE	IEC Rea	RoHS	91	<b>SP</b>	EAC
CE	CB	RoHS	USR	CSA	EAC

#### Mounting & wiring instructions

Rail	TH 35-	· · · · · · · · · · · · · · · · · · ·				
Connection Number	Size	Wire type		Wire stripping length	ΤοοΙ	Torque
Input						
2 x	Ø 15,5 mm Ø 0.59 in	25 95 mm² 4 3/0 AWG	25 120 mm² 4 250 Kcmil	28 mm 1.1 in	6 mm 0.24 in	19 21 Nm 168 185 lb.
Output 12 x	Ø 6.6 mm Ø 0.26 in	2.5 16 mm² 14 6 AWG	2.5 16 mm² 14 6 AWG	11 mm 0.43 in	3 mm 0.19 in	2 3 Nm 18 26.5 lb.ir

Not allowed			
Flexible without ferrule (IEC V-K & UL: class 5/6)	Flexible with insulated ferrule (IEC V-K & UL: class 5/6)	Rigid Solid (IEC V-U class 1, UL solid)	Rigid stranded (IEC V-R class 2, UL class B/C)

Allen key Ø Posidriv - flat screwdriver



#### Accessories

	Description		Color	Туре	Part Number	Pkg	Weight
						qty	1 pce g
1	End stops	10 mm 0.394 in	Dark grey	BAM4	1SNK900001R0000	50	14.00
		5.2 mm 0.205 in		BAZ1	1SNK900002R0000	50	5.30
		10 mm 0.394 in		BAZH1	1SNK900102R0000	20	24.00
2	Terminal block	Blank marker	White	] MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	markers	Blank card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
			Blue	MC512PA-BL	1SNK149998R0000	20	10.00
			White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed marker card		MC512PA	1SNK149002R0000	1	10.00
		(L1-L2-L3-N-PE)					

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.



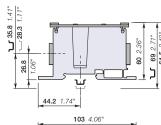
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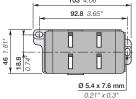
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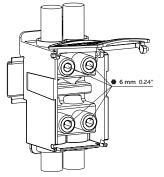
DBL500-22





46 mm 1.81 in spacing

#### **Mounting instructions**



#### Description

- Suitable for distributing or connecting main power lines with 2 inputs and 2 outputs
- 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 second input and connecting two DBL together
- Easy identification with the reversible cover and delivered pre-printed markers L1, L2, L3, N, PE, +, -.

#### **Ordering details**

Description		Color	Туре	Part Number		Pkg	Weight
					-	qty	1 pce g
Feed-through	Single pole distribution, 4	Grey	DBL500-22	1SNL850001R0000		1	224
	connections						

#### Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section Copper		500 A / (2x) 95 mm <sup>2</sup>	510 A / (2x) 250 Kcmil	
Rated voltage		1000 V AC / 1500 V DC	1000 V	
Rated impulse voltage		8 kV		
Short-time withstand current (Icw	1s)	22800 A		
Short Circuit Current Rating (SCC	R)		Please consult us	
Rated peak withstand current (lpk)		47.88 kA		
Protection		IP10	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.TE.com

Tool

6 mm  $\bigcirc$ 

0.24 in

0.24 in

Torque 6

19 ... 21 Nm

19 ... 21 Nm 168 ... 185 lb.in

168 ... 185 lb.in

CE	IEC Rea	RoHS	77	<u>ج</u>	EAC
CE	CB	RoHS	USR	CSA	EAC

#### Mounting & wiring instructions

	0.0	<b>J</b>		
Rail		TH 35-7.5, TH 35-15		
Connection Number	on Size	Wire type		Wire stripping length
Input				
2	2 x Ø 15.5 mr Ø 0.61 in	m 25 95 mm² 4 3/0 AWG	25 120 mm² 4 250 Kcmil	28 mm 1.1 in
Output 2	Ø 15.5 mr 2 x Ø 0.61 in	n 25 95 mm² 4 3/0 AWG	25 120 mm² 4 250 Kcmil	28 mm 1.1 in

Not allowed 🔲 🛒				
Flexible without ferrule	Flexible with insulated ferrule	Rigid Solid	Rigid stranded	
(IEC V-K & UL: class 5/6)	(IEC V-K & UL: class 5/6)	(IEC V-U class 1, UL solid)	(IEC V-R class 2, UL class B/C)	

Allen key Ø Posidriv - flat screwdriver



#### Accessories

	Description		Color	Туре	Part Number	Pkg	Weight
						qty	1 pce g
1	End Stops	10 mm 0.394 in	Dark Grey	BAM4	1SNK900001R0000	50	14.00
		5.2 mm 0.205 in		BAZ1	1SNK900002R0000	50	5.30
		10 mm 0.394 in		BAZH1	1SNK900102R0000	20	24.00
2	Terminal Block	Blank marker	White	MG-CPM 13 41790	1SNB041790R0512	1960	0.236
	Markers	Blank card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
			Blue	MC512PA-BL	1SNK149998R0000	20	10.00
			White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed marker card		MC512PA	1SNK149002R0000	1	10.00
		(L1-L2-L3-N-PE)					



# Index Part Number/Type classification

Part Number	Туре	Page
1SNB		
1SNB041790R0512	MG-CPM 13 41790	8
1SNK		
1SNK149002R0000	MC512PA	8
1SNK149997R0000	MC512PA-GN	8
1SNK149998R0000	MC512PA-BL	8
1SNK149999R0000	MC512PA	8
1SNK900001R0000	BAM4	8
1SNK900002R0000	BAZ1	8
1SNK900102R0000	BAZH1	8
1SNL		
1SNL308010R0000	DBL80	8
1SNL312510R0000	DBL125	9
1SNL312530R0000	DBL125-3	10
1SNL316010R0000	DBL160	11
1SNL317510R0000	DBL175	12
1SNL317531R0000	DBL175-C-3	13
1SNL325010R0000	DBL250	14
1SNL325060R0000	DBL250-F	15
1SNL340010R0000	DBL400	16
1SNL340011R0000	DBL400-PV	17

DBL500-22

18

Туре	Part Number	Page
В		
BAM4	1SNK900001R0000	8
BAZ1	1SNK900002R0000	8
BAZH1	1SNK900102R0000	8
D		
DBL125	1SNL312510R0000	g
DBL125-3	1SNL312530R0000	1C
DBL160	1SNL316010R0000	11
DBL175	1SNL317510R0000	12
DBL175-C-3	1SNL317531R0000	13
DBL250	1SNL325010R0000	14
DBL250-F	1SNL325060R0000	15
DBL400	1SNL340010R0000	16
DBL400-PV	1SNL340011R0000	17
DBL500-22	1SNL850001R0000	18
DBL80	1SNL308010R0000	8
М		
MC512PA	1SNK149002R0000	8
MC512PA	1SNK149999R0000	8
MC512PA-BL	1SNK149998R0000	8
MC512PA-GN	1SNK149997R0000	8

1SNB041790R0512

8

MG-CPM 13 41790



1SNL850001R0000

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#### LET'S CONNECT

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#### **TECHNICAL SUPPORT**

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