

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:

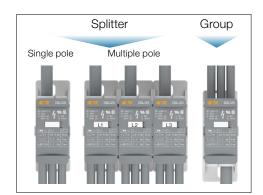
Voltage rating adapted to most recent solar inverters requirements.



Increased productivity

Reduced wiring, inventories, hardware and assembly costs:

- Reduce assembly time by 80 % compared to conventional
- 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.







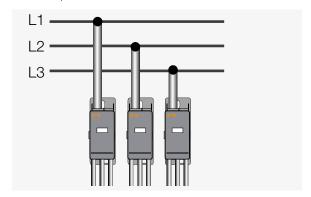
SNC166009S0201 - Rev.



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

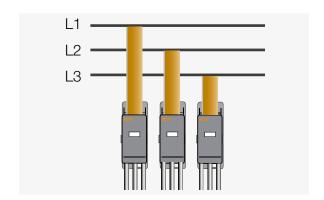
3 Phases

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



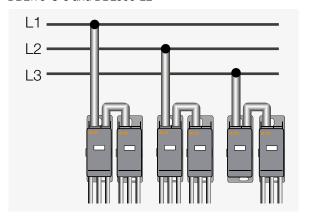
3 Phases for flat conductor

DBL250-F, DBL500-F



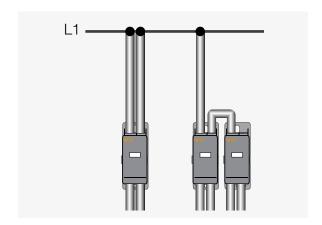
3 Phases with jumpering wire

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



2 in/2 out configuration

DBL500-22

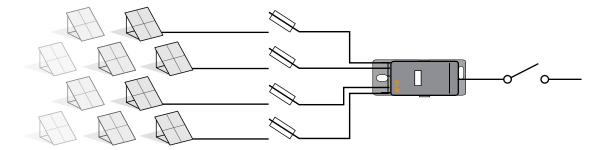


Combining PV strings in one single output PV combiner box, central inverter in a solar power plant

Up to 12 PV strings

DBL80...DBL500-F

DBL400-PV specifically designed for solar application with 12 inputs of 16 mm².



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

Single pole DBL80 **DBL125 DBL160 DBL175** DBL250 and 7 connections **DBL400** 8 connections 8 connections 12 connections 12 connections L3 L1 L1 Ν L2 Panel or DIN rail mounting Easy block **Easy jumpering Pre-printed markers** assembly (L1, L2, L3, N, PE, +, -) Increase the number of thanks to the outputs by connecting delivered with each interlocking piece two blocks together block



DBL400-PV

14 connections

DBL125-3 and DBL175-C-3

8x3 connections

DBL250-F and DBL500-F

7 and 12 connections

DBL500-22

4 connections









L1



L11

L13

L12

L14





Flat conductor feed-in

Flexible cover for easy wiring:

- Two directions opening
- Removable & snap-on

Main technical data printed on the cover and visible from top



to collect solar energy up to 1500 V DC (IEC), 1000 V DC (UL)





Input/ Output
Round conductors



	Number of connections		7	8	8	12	12	12		
	Max cı	urrent	Cross sec	tion		00	00	00	विकास	जिति
	IEC	UL			1111	888	888	88888		8 8 8 8
Cu	80 A	80 A	16 mm ²	4 AWG	DDI 90					
Al	63 A	-	16 mm ²	-	DBL80					
Cu	125 A	115 A	35 mm ²	2 AWG		DBL125				
Al	100 A	-	35 mm ²	-		DBLIZS				
Cu	160 A	160 A	70 mm ²	2/0 AWG			DBL160			
Al	135 A	-	70 mm ²	-			DBLIGG			
Cu	175 A	175 A	70 mm ²	2/0 AWG				DBL175		
Al	135 A	-	70 mm ²	-				5520		
Cu	250 A	255 A	120 mm ²	250 Kcmil					DBL250	
Al	200 A	-	120 mm ²	-					DDL200	
Cu	400 A	335 A	185 mm ²	400 Kcmil						DBL400
Al	300 A	-	185 mm ²	-						DDL400
Cu	500 A	510 A	95 mm ²	250 Kcmil						
Cu	550 A	400 A	95 mm²	250 Kcmil						



Input: Flat conductors Output: Round conductors



			Number of connections	7	12
	Max current		Max cross section	眾	जिंग । जिंग
	IEC	UL		888	8 8 8
Cu	250 A	250 A	15.5 x 7.5 mm	DBL250-F	
Cu	500 A	420 A	24 x 10 x 1 mm		DBL500-F



Solar



14
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6	9	9) 2

DBL400-PV

T	hree	og	les
•	11100		-





8x3	8x3
	Ç
DBL125-3	
	DBL175-C-3
_	



2 in/2 out



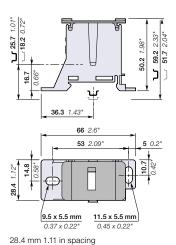
DBL80 power distribution blocks

Single pole - 28.4 mm 1.11 in spacing

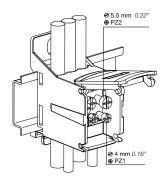




DBL80



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					

Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section	Copper	80 A / 16 mm ²	80 A / 4 AWG	
	Aluminium	63 A / 16 mm ²		
Rated voltage		1000 V AC / 1500 V DC	1000 V	
Rated impulse voltage		8 kV		
Short-time withstand current (lcw	1s)	1920 A		
Short Circuit Current Rating (SCC	R)		100 kA	
Rated peak withstand current (lpk)	27 kA		
Protection		IP20	NEMA 1	
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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

Rail TH 35-7.5, TH 35-15

Connection		Wire type		Wire stripping length	Tool	Torque	
Number	Size			□ H		Ó	
nput							
∜ 1	Ø 6.6 mm	2.5 16 mm ²	2.5 16 mm ²	15 mm	5.5 mm 0.22 in	1.5 2 Nm	
▼ 3 x	Ø 0.26 in	14 6 AWG	14 4 AWG	0.59 in	0.22 in	13.5 18 lb.in	
Output 4 x	Ø 4.5 mm	2.5 6 mm ²	2.5 6 mm ²	11 mm	4 mm 0.16 in	0.8 1.2 Nm	
4 x	Ø 0.18 in	14 10 AWG	14 10 AWG	0.43 in	0.16 in	7.2 10.8 lb.ir	

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)





1 2

Accessories

	Description		Color		Туре	Part Number	Pkg	Weight
							qty	1 pce g
1	End stops	10 mm 0.394 i	n Dark gre	/	BAM4	1SNK900001R0000	50	14.00
		5.2 mm 0.205 ii	1		BAZ1	1SNK900002R0000	50	5.30
		10 mm 0.394 ii	١		BAZH1	1SNK900102R0000	20	24.00
2	Terminal block	Blank card	Green		MC512PA-GN	1SNK149997R0000	20	10.00
	markers		Blue		MC512PA-BL	1SNK149998R0000	20	10.00
			White		MC512PA	1SNK149999R0000	20	10.00
		Pre-printed marker ca	rd		MC512PA	1SNK149002R0000	1	10.00
		(L1-L2-L3-N-PE)						

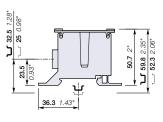
DBL125 power distribution blocks

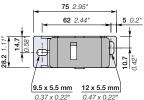
Single pole - 28.2 mm 1.11 in spacing





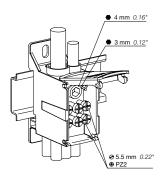
DBL125





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 connections	Grey	DBL125	1SNL312510R0000	1	122

Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section	Copper	125 A / 35 mm ²	115 A / 2 AWG	
	Aluminium	100 A / 35 mm ²		
Rated voltage		1000 V AC / 1500 V DC	1000 V	
Rated impulse voltage		8 kV		
Short-time withstand current (lcw	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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Mounting & wiring instructions

Rail TH 35-7.5, TH 35-15

Connection		Wire type		3 - 11 - 3 - 3	Tool	Torque
Number	Size					(5)
Input						
1)	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	; (〈 〉)	3.5 5 Nm 31 44 lb.in
Output 1 >	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 >	Ø 6.4 mm Ø 0.25 in	2.5 16 mm² 14 6 AWG	2.5 16 mm² 14 6 AWG	11 mm 0.43 in	: (→ ←)	2 3 Nm 18 26.5 lb.in

When using maximum cable size with insulated ferrules, use a maximum of 2 non-adjacent 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	Type	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 card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
	markers		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



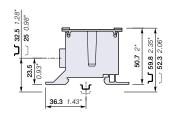
DBL125-3 power distribution blocks

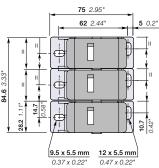
3x1 pole - 84.6 mm 3.33 in spacing





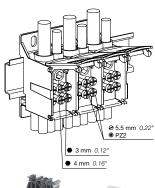
DBL125-3





84.6 mm 3.33 in spacing

Mounting instructions





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	1 pce g
Feed-through	Three poles distribution block 3x8	Grey 🔲	DBL125-3	1SNL312530R0000	1	367
	connections					

Main technical data

Connecting capacity		UL	
Copper	125 A / 35 mm ²	115 A / 2 AWG	
Aluminium	100 A / 35 mm ²		
	1000 V AC / 1500 V DC	1000 V	
	8 kV		
s)	4200 A		
	30 kA		
	IP20	NEMA 1	
	Aluminium	Aluminium 100 A / 35 mm ² 1000 V AC / 1500 V DC 8 kV 4200 A 30 kA	Copper Aluminium 125 A / 35 mm² 115 A / 2 AWG Aluminium 100 A / 35 mm² 1000 V AC / 1500 V DC 1000 V 8 kV 4200 A 30 kA 30 kA

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Mounting & wiring instructions

Rail TH 35-7.5, TH 35-15

Connection Number	Size	Wire type		Wire stripping length	Tool	Torque
by pole						\odot
Input						
1 x	Ø 9.8 mm	10 35 mm²	10 35 mm²	15 mm	4 mm	3.5 5 Nm
	Ø 0.39 in	8 2 AWG	8 2 AWG	0.59 in	0.16 in	31 44 lb.in
Output 1 x	Ø 6.8 mm	2.5 16 mm ²	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.in
6 x	Ø 6.4 mm	2.5 16 mm ²	2.5 16 mm ²	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

When using maximum cable size with insulated ferrules, use a maximum of 2 non-adjacent holes in each row.

Not allowed			
Flexible without ferrule	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

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		- 1	BAZ1	1SNK900002R0000		50	5.30
		10 mm	0.394 in		- [BAZH1	1SNK900102R0000		20	24.00
2	Terminal block	Blank card		Green		MC512PA-GN	1SNK149997R0000		20	10.00
	markers			Blue		MC512PA-BL	1SNK149998R0000		20	10.00
				White		MC512PA	1SNK149999R0000		20	10.00
		Pre-printed	marker card		- 1	MC512PA	1SNK149002R0000		1	10.00
		(L1-L2-L3-I	N-PE)							

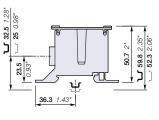
DBL160 power distribution blocks

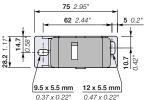
Single pole - 28.2 mm 1.11 in spacing





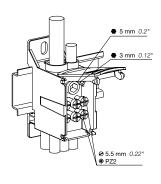
DBL160





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

Main technical data

Connecting capacity		IEC	UL
Max current / Cross section	Copper	160 A / 70 mm ²	160 A / 2/0 AWG
	Aluminium	135 A / 70 mm ²	
Rated voltage		1000 V AC / 1500 V DC	1000 V
Rated impulse voltage		8 kV	
Short-time withstand current (lcw	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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Mounting & wiring instructions

Rail TH 35-7.5, TH 35-15

Connection		Wire type		Wire stripping length	Tool	Torque
Number	Size			C H		٥
Input						
1	x Ø 11.8 mm	16 50 mm ²	16 70 mm ²	18 mm	5 mm	6 10 Nm
	Ø 0.46 in	6 1/0 AWG	6 2/0 AWG	0.708 in	0.20 in	53 88 lb.in
Output 1	x Ø 6.8 mm	2.5 16 mm ²	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.in
6	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

When using maximum cable size with insulated ferrules, use a maximum of 2 non-adjacent 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 card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
	markers		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

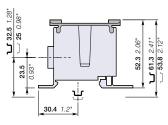
DBL175 power distribution blocks

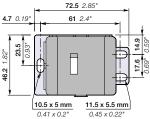
Single pole - 46.2 mm 1.82 in spacing





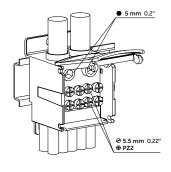
DBL175





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 A with 50 mm² wires and 350 A 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	1 pce 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 ²	175 A / 2/0 AWG	3
	Aluminium	135 A / 70 mm ²		
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 (SCCI	R)		100 kA	
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



Connection		Wire type		Wire stripping length	Tool	Torque
Number	Size			□ H		Ó
Input						
2 x	Ø 11.8 mm Ø 0.46 in	10 50 mm² 8 1/0 AWG	10 70 mm² 6 2/0 AWG	15 mm 0.708 in	5 mm 0.20 in	6 10 Nm 53 88 lb.in
Output 10 x	Ø 6.4 mm Ø 0.25 in	2.5 16 mm² 14 6 AWG	2.5 16 mm ² 14 6 AWG	11 mm 0.43 in	5.5 mm 0.22 in	2 3 Nm 18 26.5 lb.in

When using maximum cable size with insulated ferrules, use a maximum of 3 non-adjacent holes in each row.

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	Rigid stranded	
(IEC V-R & OE. Class 3/0)	(IEC V-N & UL: Class 5/6)	(IEC V-O Class I, OL SOIIU)	(IEC V-R class 2, UL class B/C)	





Accessories



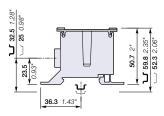
DBL175-C-3 power distribution blocks

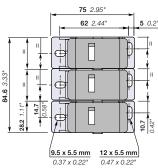
3x1 pole - 84.6 mm 3.33 in spacing





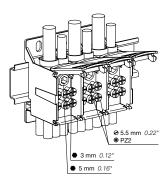
DBL175-C-3





84.6 mm 3.33 in spacing

Mounting instructions



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	1 pce g
Feed-through	Three poles distribution block 3x8 connections	Grey	DBL175-C-3	1SNL317531R0000		1	360

Main technical data

Connecting capacity		UL	
Copper 175 A / 70 mm ²		175 A / 2/0 AWG	
Aluminium	135 A / 70 mm ²		
Rated voltage		1000 V	
Rated impulse voltage			
s)	6000 A		
Rated peak withstand current (lpk)			
	IP10	NEMA 1	
	- - - - - - - - -	Aluminium 135 A / 70 mm ² 1000 V AC / 1500 V DC 8 kV 6000 A 30 kA	Aluminium 135 A / 70 mm² 1000 V AC / 1500 V DC 1000 V 8 kV 6000 A 30 kA

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

Rail TH 35-7.5, TH 35-15

Connection		Wire type		Wire stripping length	Tool	Torque
Number by pole	Size			☐ H		٥
Input						
[•] ₁,	Ø 11.8 mm	16 50 mm ²	16 70 mm²	18 mm	5 mm	6 10 Nm
1 x	Ø 0.46 in	8 1/0 AWG	6 2/0 AWG	0.708 in	0.20 in	53 88 lb.in
Output	Ø 6.8 mm	2.5 16 mm ²	6 16 mm ²	11 mm	3 mm	2 3 Nm
1 x	Ø 0.27 in	14 6 AWG	10 6 AWG	0.43 in	0.12 in	18 26.5 lb.in
	Ø 6.4 mm	2.5 16 mm ²	2.5 16 mm ²	11 mm		2 3 Nm
₩ 6 x	Ø 0.25 in	14 6 AWG	14 6 AWG	0.43 in	5.5 mm 0.22 in	18 26.5 lb.ir

When using maximum cable size with insulated ferrules, use a maximum of 2 non-adjacent holes in each row.

Not allowed			
	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





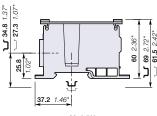
DBL250 power distribution blocks

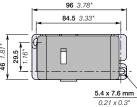
Single pole - 46 mm 1.81 in spacing





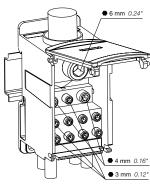
DBL250





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

De	escription		Color	Туре	Part Number	Pkg	Weight
						qty	1 pce g
Fe	ed-through	Single pole distribution, 12	Grey	DBL250	1SNL325010R0000	1	439
		connections					

Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section	Copper 250 A / 120 mm ²		255 A / 250 Kcmil	
	Aluminium	200 A / 120 mm ²		
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 (SCCI	3)		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



Mounting & wiring instructions

Rail TH 35-7.5, TH 35-15

Connection		Wire type	'	Wire stripping length	Tool	Torque
Number	Size			□		٥
Input						
1 x	Ø 15.3 mm	35 95 mm²	35 120 mm ²	28 mm	6 mm	19 21 Nm
	Ø 0.60 in	2 3/0 AWG	2 250 Kcmil	1.10 in	0.24 in	168 185 lb.in
2 x	Ø 8.7 mm	2.5 25 mm ²	2.5 35 mm ²	11 mm	4 mm	3.5 5 Nm
	Ø 0.34 in	14 4 AWG	14 2 AWG	0.43 in	0.16 in	31 44 lb.in
5 x	Ø 6.4 mm	2.5 16 mm ²	2.5 16 mm ²	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.in
₩ 4 x	Ø 5.7 mm	2.5 10 mm ²	2.5 10 mm ²	11 mm	3 mm	2 3 Nm
	Ø 0.22 in	14 8 AWG	14 8 AWG	0.43 in	0.12 in	18 26.5 lb.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)





Accessories



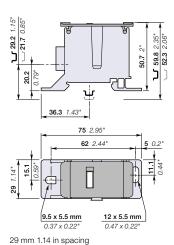
DBL250-F power distribution blocks

Single pole - Flat entry - 29 mm 1.14 in spacing

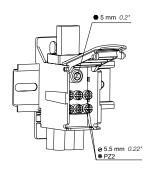




DBL250-F



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
	Solid 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 (SCCR)			100 kA
Rated peak withstand current (lpk)		22.8 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



Mounting & wiring instructions

Rail TH 35-7.5, TH 35-15

Connection		Wire type			Tool	Torque
Number	Size			☐ F H		©
Input						
★	15.5 x 7.5 mm	12 x 4 mm	3 x 9 x 0.8 mm	15 mm	5 mm	13.5 Nm
1 x	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 ²	2.5 16 mm ²	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.in

When using maximum cable size with insulated ferrules, use a maximum of 2 non-adjacent holes in each row.

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)		





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 card		Green	MC512PA-GN	1SNK149997R0000	20	10.00
	markers			Blue	MC512PA-BL	1SNK149998R0000	20	10.00
				White	MC512PA	1SNK149999R0000	20	10.00
		Pre-printed	d marker card N-PF)		MC512PA	1SNK149002R0000	1	10.00



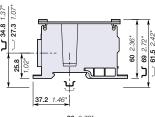
DBL400 power distribution blocks

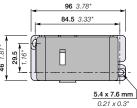
Single pole - 46 mm 1.81 in spacing





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
		T : :			qty	1 pce g
Feed-through	Single pole distribution, 12	Grey	DBL400	1SNL340010R0000	1	425
	connections					

Main technical data

Connecting capacity		IEC	UL	
Max current / Cross section	Copper	400 A / 185 mm ²	335 A / 400 Kcmil	
	Aluminium	300 A / 185 mm ²		
Rated voltage		1000 V AC / 1500 V DC	1000 V	
Rated impulse voltage		8 kV		
Short-time withstand current (lcw	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



Mounting & wiring instructions

Rail TH 35-7.5, TH 35-15

Connect	tion		Wire type		Wire stripping length	Tool	Torque
Number		Size			H H		Ò
Input							
lacktriangle	1 x	Ø 18.8 mm Ø 0.74 in	95 150 mm ² 3/0 300 Kcmil	95 185 mm² 3/0 400 Kcmil	28 mm 1.10 in	8 mm 0.31 in	25 Nm 221 lb.in
Output	2 x	Ø 8.7 mm Ø 0.34 in	2.5 25 mm ² 14 4 AWG	2.5 35 mm ² 14 2 AWG	11 mm 0.43 in	4 mm 0.16 in	3.5 5 Nm 31 44 lb.in
П	5 x	Ø 6.4 mm Ø 0.25 in	2.5 16 mm ² 14 6 AWG	2.5 16 mm ² 14 6 AWG	11 mm 0.43 in	3 mm 0.12 in	2 3 Nm 18 26.5 lb.in
₩	4 x	Ø 5.7 mm Ø 0.22 in	2.5 10 mm ² 14 8 AWG	2.5 10 mm ² 14 8 AWG	11 mm 0.43 in	3 mm 0.12 in	2 3 Nm 18 26.5 lb.in

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)







Accessories

	Description		Color	Type	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 card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
	markers		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

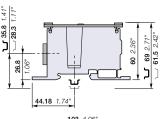
DBL400-PV power distribution blocks

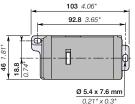
Single pole - 46 mm 1.81 in spacing





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 connections	Grey	DBL400-PV	1SNL340011R0000	1	202

Main technical data

	IEC	UL	
Copper	550 A / (2x) 95 mm ²	400 A / (2x) 250 Kcmil	
	1000 V AC / 1500 V DC	1000 V	
	8 kV		
:)	22800 A		
		100 kA	
	47.88 kA		
	IP10	NEMA 1	
)	Copper 550 A / (2x) 95 mm ² 1000 V AC / 1500 V DC 8 kV 22800 A 47.88 kA	Copper 550 A / (2x) 95 mm ² 400 A / (2x) 250 Kcmil 1000 V AC / 1500 V DC 1000 V 8 kV 1000 A 1000 KA 47.88 kA

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



Connection Number	Size	Wire type		Wire stripping length	Tool	Torque
Input 2 x Output 12 x	Ø 0.59 in	25 95 mm² 4 3/0 AWG 2.5 16 mm² 14 6 AWG	25 120 mm ² 4 250 Kcmil 2.5 16 mm ² 14 6 AWG	28 mm 1.1 in 11 mm 0.43 in	0.24 in	19 21 Nm 168 185 lb.in 2 3 Nm 18 26.5 lb.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)







Accessories

	Description		Color	Type	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 card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
	markers		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

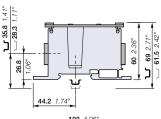
DBL500-22 Power Distribution Blocks

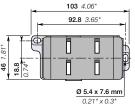
Single pole - 46 mm 1.81 in spacing





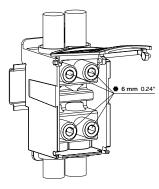
DBL500-22





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

	IEC	UL	
Copper	500 A / (2x) 95 mm ²	510 A / (2x) 250 Kcmil	
	1000 V AC / 1500 V DC	1000 V	
	8 kV		
5)	22800 A		
		100 kA	
	47.88 kA		
	IP10	NEMA 1	
	Copper (S)	Copper 500 A / (2x) 95 mm ² 1000 V AC / 1500 V DC 8 kV 22800 A 47.88 kA	Copper 500 A / (2x) 95 mm ² 510 A / (2x) 250 Kcmil 1000 V AC / 1500 V DC 1000 V 8 kV 22800 A 100 kA

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



Connection		Wire type		Wire stripping length	Tool	Torque
Number	Size			□		Ò
Input		•				
2 x	Ø 15.5 mm Ø 0.61 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.in
Output 2 x	Ø 15.5 mm Ø 0.61 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.in

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)







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 card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
	Markers		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

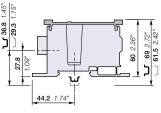
DBL500-F power distribution blocks

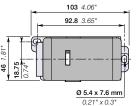
Single pole - Flat entry - 46 mm 1.81 in spacing





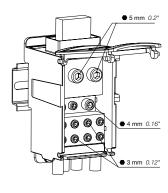
DBL500-F





46 mm 1.81 in spacing

Mounting instructions



Description

- Suitable for distributing power from flat conductors: 500A (IEC), 420A (UL)
- 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, 12	Grey	DBL500-F	1SNL350060R0000	1	514
	connections					

Main technical data

Connecting capacity		IEC	UL
Max current / Max cross section	Flexible busbar	500 A / 10 x 24 x 1 mm	420 A / 10 x 24 x 1 mm
	Solid busbar	500 A / 25 x 5 mm (x2)	420 A / 25 x 5 mm (x2)
Rated voltage		1000 V AC / 1500 V DC	1000 V
Rated impulse voltage			
Short-time withstand current (Icw 1s)		28800 A	
Short Circuit Current Rating (SCCR)			100 kA
Rated peak withstand current (lpk)		43.9 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



Mounting & wiring instructions

B 11		TH 35-7.
Rail	J	TH 35-1

Connection		Wire type	'	Wire stripping length	Tool	Torque
Number	Size		<i>=</i>	□ HH		Ó
Input						
[廿	26 x 10.8 mm	12 x 4 mm up to	3 x 9 x 0.8 mm	35 mm	5 mm	13.5 Nm
1)	1.02 x 0.43 in	(2x) 25 x 5 mm	10 x 24 x 1 mm	1.38 in	0.20 in	119.5 lb.in
Output 2	Ø 8.69 mm	2.5 25 mm ²	2.5 35 mm ²	11 mm	4 mm	3.5 5 Nm
m	Ø 0.34 in	14 4 AWG	14 2 AWG	0.43 in	0.16 in	31 44 lb.in
L ₁ ,	Ø 5.7 mm	2.5 10 mm ²	2.5 10 mm ²	11 mm	3 mm	2 3 Nm
₩ 4 >	Ø 0.22 in	14 8 AWG	14 8 AWG	0.43 in	0.12 in	18 26.5 lb.in
	Ø 6.59 mm	2.5 16 mm ²	2.5 16 mm ²	11 mm	3 mm	2 3 Nm
5)	Ø 0.26 in	14 6 AWG	14 6 AWG	0.43 in	0.12 in	18 26.5 lb.in

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)		





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 card	Green	MC512PA-GN	1SNK149997R0000	20	10.00
	markers		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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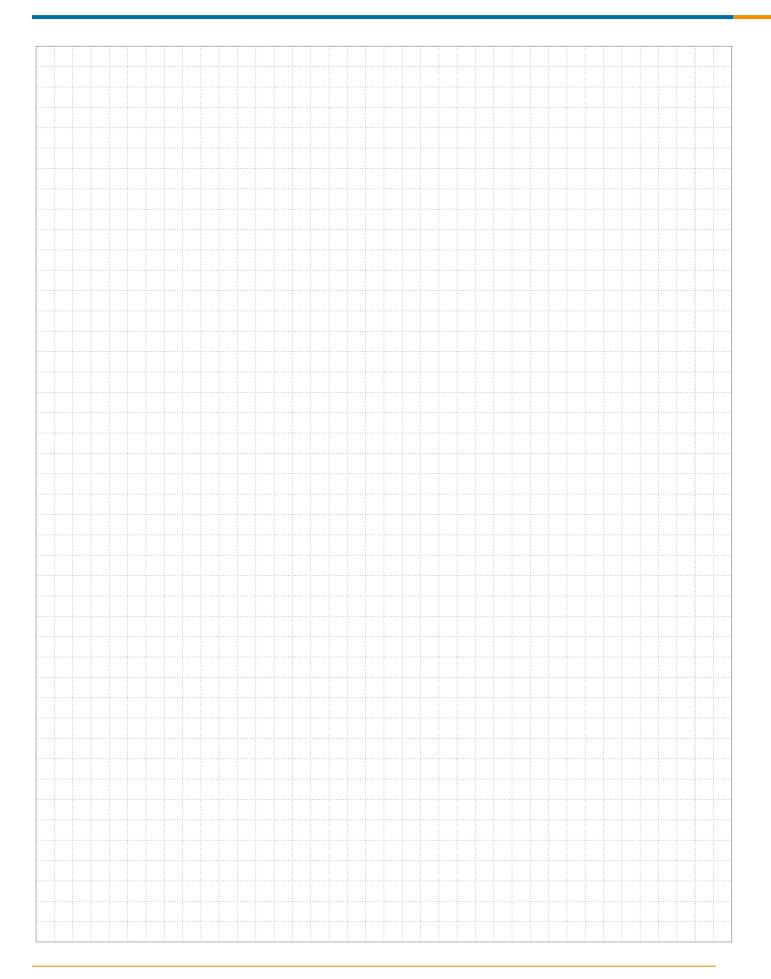
Part Number/Type classification

Part Number	Type	Page
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
1SNL350060R0000	DBL500-F	19
1SNL850001R0000	DBL500-22	18

B BAM4 1SNK900001R0000 BAZ1 1SNK900002R0000 BAZH1 1SNK900102R0000 DBL80 1SNL308010R0000 DBL125 1SNL312510R0000 DBL125-3 1SNL312530R0000 1 DBL160 1SNL316010R0000 1 DBL175 1SNL317510R0000 1
BAZ1 1SNK900002R0000 BAZH1 1SNK900102R0000 DBL80 1SNL308010R0000 DBL125 1SNL312510R0000 DBL125-3 1SNL312530R0000 1 DBL160 1SNL316010R0000 1 DBL175 1SNL317510R0000 1
BAZH1 1SNK900102R0000 D DBL80 1SNL308010R0000 DBL125 1SNL312510R0000 DBL125-3 1SNL312530R0000 1 DBL160 1SNL316010R0000 1 DBL175 1SNL317510R0000 1
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DBL80 1SNL308010R0000 DBL125 1SNL312510R0000 DBL125-3 1SNL312530R0000 1 DBL160 1SNL316010R0000 1 DBL175 1SNL317510R0000 1
DBL80 1SNL308010R0000 DBL125 1SNL312510R0000 DBL125-3 1SNL312530R0000 1 DBL160 1SNL316010R0000 1 DBL175 1SNL317510R0000 1
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DBL175 1SNL317510R0000 1
DBL175-C-3 1SNL317531R0000 1
DBL250 1SNL325010R0000 1
DBL250-F 1SNL325060R0000 1
DBL400 1SNL340010R0000 1
DBL400-PV 1SNL340011R0000 1
DBL500-22 1SNL850001R0000 1
DBL500-F 1SNL350060R0000 1
M
MC512PA 1SNK149002R0000
MC512PA 1SNK149999R0000
MC512PA-BL 1SNK149998R0000
MC512PA-GN 1SNK149997R0000

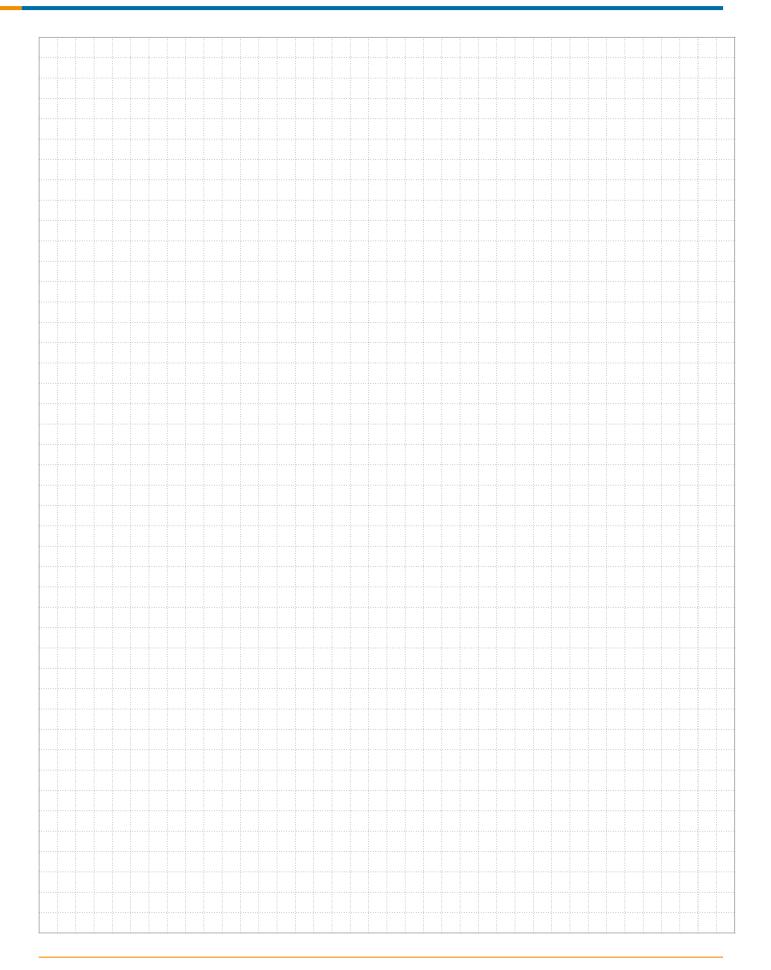


Notes





Notes





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