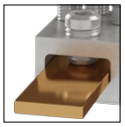
DBL POWER DISTRIBUTION BLOCKS

ENTRELEC Terminal Blocks

DBL power distribution 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.



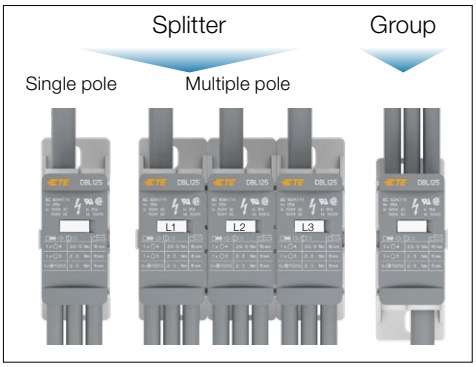
Easy to install

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.



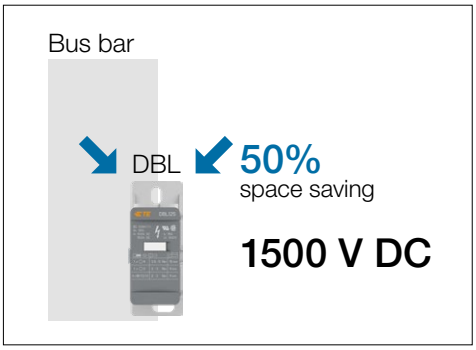
Space saving

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

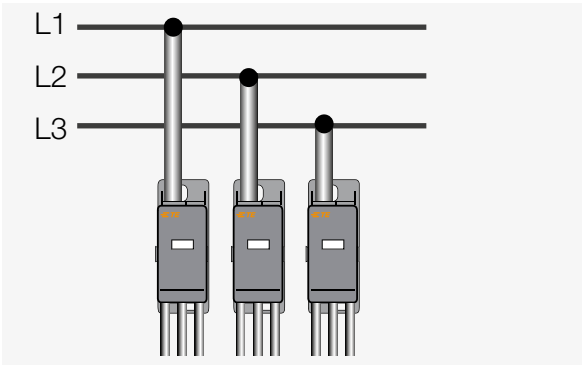
Reduced wiring, inventories, hardware and assembly costs:

- 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.

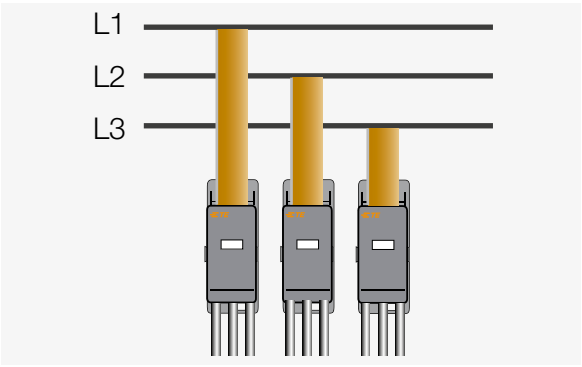
1SNC166009S0201 - Rev. D

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

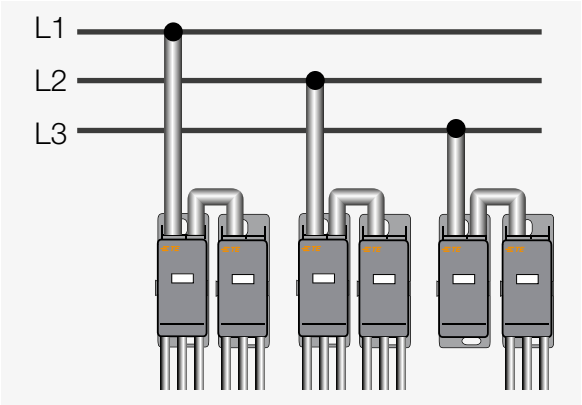
3 Phases
DBL80, DBL125, DBL160, DBL175, DBL250, DBL400, DBL125-3, DBL175-C-3



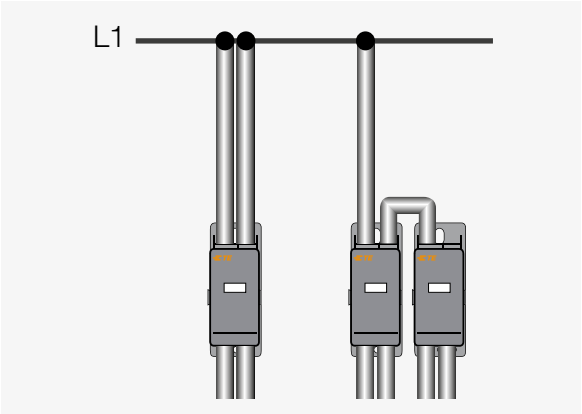
3 Phases for flat conductor
DBL250-F, DBL500-F



3 Phases with jumpering wire
DBL80, DBL125, DBL160, DBL175, DBL400-PV, DBL125-3, DBL175-C-3 and DBL500-22

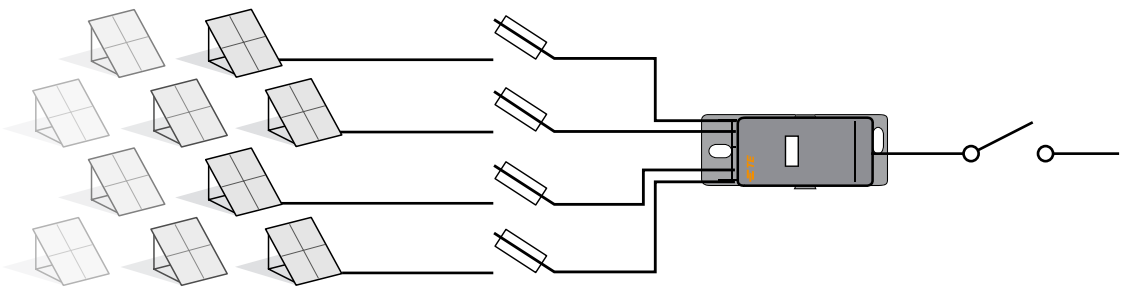


2 in/2 out configuration
DBL500-22



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

Up to 12 PV strings
DBL80…400
DBL400-PV specifically designed for solar application with 12 inputs of 16 mm².



1SNC166027S0201 - Rev. C

Single pole, solar, three poles, flat conductor and 2 in/2 out

Single pole

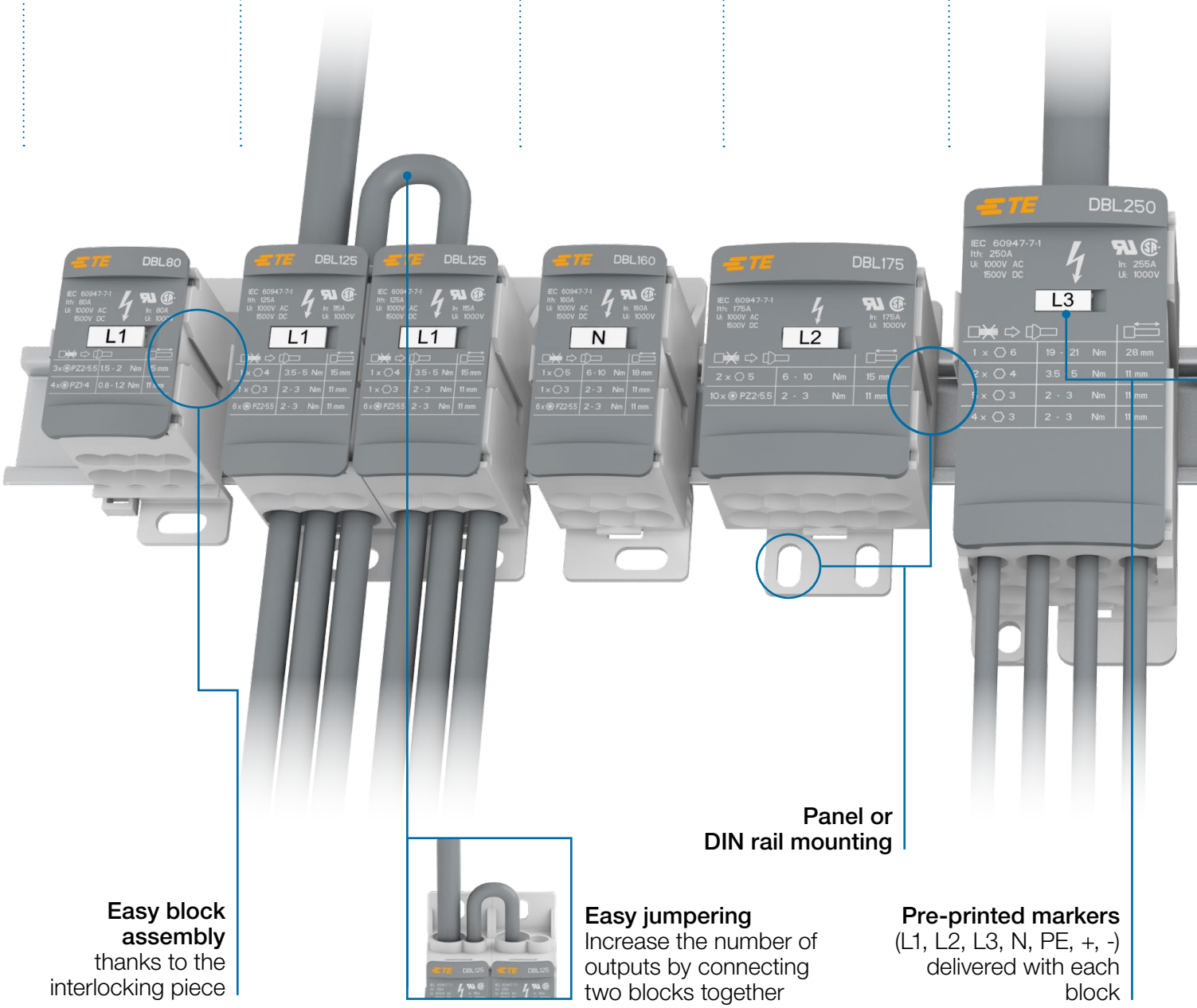
DBL80
7 connections

DBL125
8 connections

DBL160
8 connections

DBL175
12 connections

DBL250 and DBL400
12 connections



Easy block assembly
thanks to the interlocking piece

Easy jumpering
Increase the number of outputs by connecting two blocks together

Panel or DIN rail mounting

Pre-printed markers
(L1, L2, L3, N, PE, +, -) delivered with each block

Solar

DBL400-PV
14 connections

Three poles

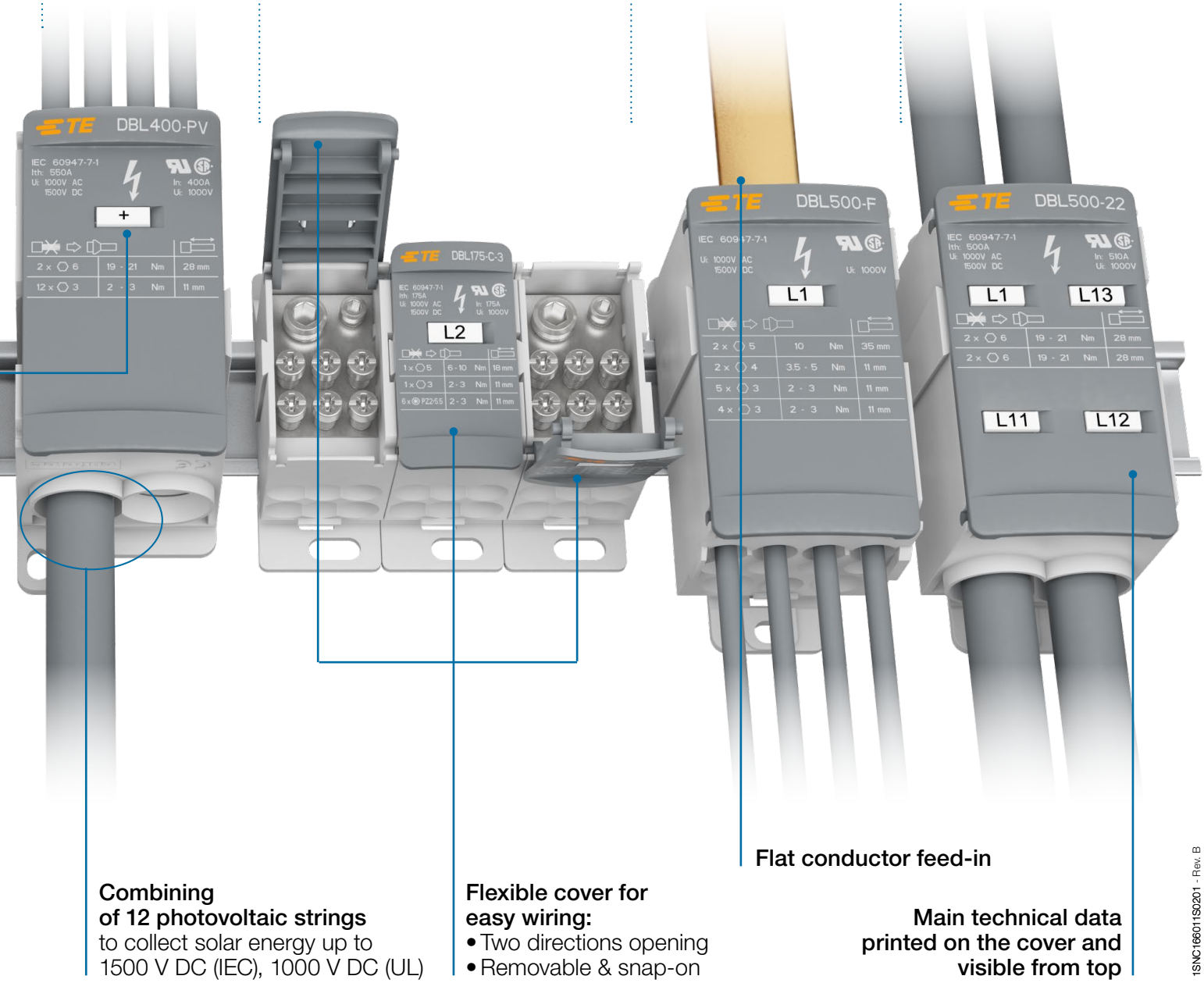
DBL125-3 and
DBL175-C-3
8x3 connections

Flat conductor

DBL250-F and
DBL500-F
7 and 12 connections

2 in/2 out

DBL500-22
4 connections



Combining of 12 photovoltaic strings
to collect solar energy up to 1500 V DC (IEC), 1000 V DC (UL)

Flexible cover for easy wiring:
- Two directions opening
- Removable & snap-on

Flat conductor feed-in

Main technical data printed on the cover and visible from top

1SNC166011S0201 - Rev. B

DBL power distribution blocks
Panorama

Input/ Output
Round conductors

Single pole

					Number of connections	7	8	8	12	12	12
	Max current		Cross section								
	IEC	UL									
Cu	80 A	80 A	16 mm²	4 AWG		DBL80					
Al	63 A	-	16 mm²	-							
Cu	125 A	115 A	35 mm²	2 AWG			DBL125				
Al	100 A	-	35 mm²	-							
Cu	160 A	160 A	70 mm²	2/0 AWG				DBL160			
Al	135 A	-	70 mm²	-							
Cu	175 A	175 A	70 mm²	2/0 AWG					DBL175		
Al	135 A	-	70 mm²	-							
Cu	250 A	255 A	120 mm²	250 Kcmil						DBL250	
Al	200 A	-	120 mm²	-							
Cu	400 A	335 A	185 mm²	400 Kcmil							DBL400
Al	300 A	-	185 mm²	-							
Cu	500 A	510 A	95 mm²	250 Kcmil							
Cu	550 A	400 A	95 mm²	250 Kcmil							

Input:
Flat conductors
Output:
Round conductors

Flat conductors

				Number of connections	7	12
	Max current		Max cross section			
	IEC	UL				
Cu	250 A	250 A	15.5 x 7.5 mm		DBL250-F	
						DBL500-F Coming soon

Three poles

8x3 X3	8x3 X3
DBL125-3	
	DBL175-C-3

2 in/2 out

4
DBL500-22

Solar

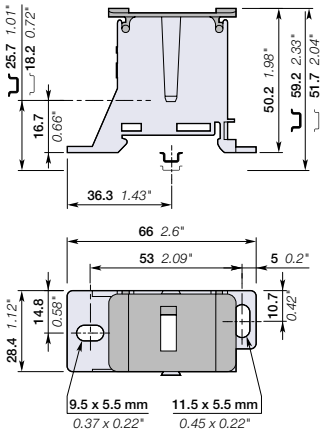
14
DBL400-PV

1SNC166026S0201 - Rev. B

DBL80 power distribution blocks
Single pole - 28.4 mm 1.11 in spacing

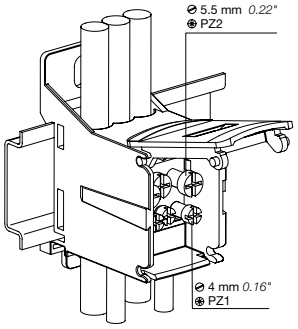
1SNC166026V0014

DBL80



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

Main technical data

Connecting capacity		IEC	UL
Max current / Cross section	Copper	80 A / 16 mm²	80 A / 4 AWG
	Aluminium	63 A / 16 mm²	
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 (SCCR)			100 kA
Rated peak withstand current (Ipk)		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

CE CB RoHS USR CSA EAC BV

Mounting & wiring instructions

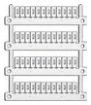
Rail: TH 35-7.5, TH 35-15

Connection Number		Size	Wire type		Wire stripping length	Tool	Torque
Input	3 x	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.in
Output	4 x	Ø 4.5 mm Ø 0.18 in	2.5 ... 6 mm² 14 ... 10 AWG	2.5 ... 6 mm² 14 ... 10 AWG	11 mm 0.43 in	4 mm 0.16 in	0.8 ... 1.2 Nm 7.2 ... 10.8 lb.in

Not allowed Flexible without ferrule (IEC V-K, UL class G...K)	Flexible with ferrule (IEC V-K, UL class G...K)	Solid (IEC V-U class 1, UL solid)	Rigid stranded (IEC V-R class 2, UL class B/C)

Allen key Posidriv - flat screwdriver

1


2

Accessories

	Description			Color	Type	Part Number		Pkg qty	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 markers	Blank marker		White	MG-CPM 13 41790	1SNB041790R0512		1960	0.236
		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

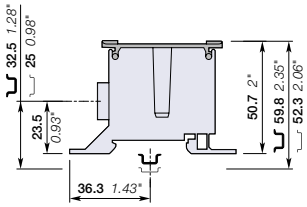
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

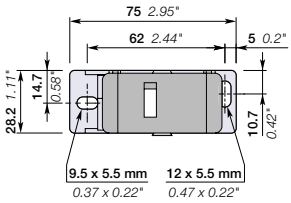
1SNC166012S0201

DBL125 power distribution blocks
Single pole - 28.2 mm 1.11 in spacing

1SNC166027V0014

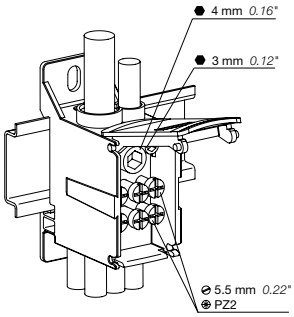
DBL125





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	Type	Part Number		Pkg qty	Weight 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 mm²	115 A / 2 AWG
	Aluminium	100 A / 35 mm²	
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 (SCCR)			100 kA
Rated peak withstand current (Ipk)		30 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

CE CB RoHS USR CSA EAC BV

Mounting & wiring instructions

Rail: TH 35-7.5, TH 35-15

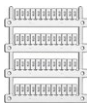
Connection Number		Size	Wire type		Wire stripping length	Tool	Torque
Input	1 x	Ø 9.8 mm Ø 0.39 in	10 ... 35 mm² 8 ... 2 AWG	10 ... 35 mm² 8 ... 2 AWG	15 mm 0.59 in	4 mm 0.16 in	3.5 ... 5 Nm 31 ... 44 lb.in
Output	1 x	Ø 6.8 mm Ø 0.27 in	2.5 ... 16 mm² 14 ... 6 AWG	6 ... 16 mm² 10 ... 6 AWG	11 mm 0.43 in	3 mm 0.12 in	2 ... 3 Nm 18 ... 26.5 lb.in
	6 x	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	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 2 non-adjacent holes in each row.

Not allowed Flexible without ferrule (IEC V-K, UL class G...K)	Flexible with ferrule (IEC V-K, UL class G...K)	Solid (IEC V-U class 1, UL solid)	Rigid stranded (IEC V-R class 2, UL class B/C)

Allen key Posidriv - flat screwdriver

1



2

Accessories

	Description			Color	Type	Part Number		Pkg qty	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 markers	Blank marker		White	MG-CPM 13 41790	1SNB041790R0512		1960	0.236
		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

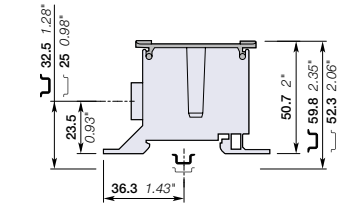
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

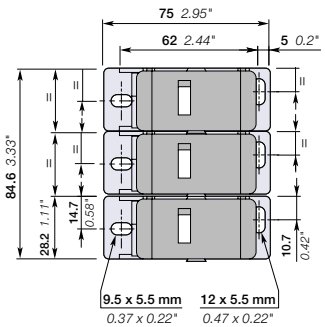
1SNC166013S0201

DBL125-3 power distribution blocks
3x1 pole - 84.6 mm 3.33 in spacing

X3

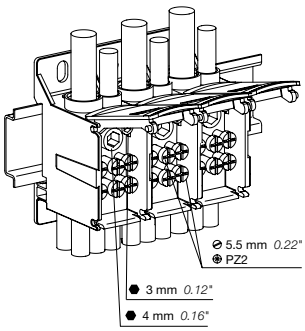
DBL125-3

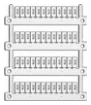




84.6 mm 3.33 in spacing

Mounting instructions



1 2 

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	Type	Part Number		Pkg qty	Weight 1 pce g
Feed-through	Three poles distribution block 3x8 connections	Grey	DBL125-3	1SNL312530R0000		1	367

Main technical data

Connecting capacity		IEC	UL
Max current / Cross section	Copper	125 A / 35 mm²	115 A / 2 AWG
	Aluminium	100 A / 35 mm²	
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 (SCCR)			
Rated peak withstand current (Ipk)		30 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

CE CB RoHS USR CSA EAC

Mounting & wiring instructions

Rail: TH 35-7.5, TH 35-15

Connection Number by pole		Size	Wire type		Wire stripping length	Tool	Torque
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	4 mm 0.16 in	3.5 ... 5 Nm 31 ... 44 lb.in
Output	1 x	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	3 mm 0.12 in	2 ... 3 Nm 18 ... 26.5 lb.in
	6 x	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	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 2 non-adjacent holes in each row.

Not allowed Flexible without ferrule (IEC V-K, UL class G...K)	Flexible with ferrule (IEC V-K, UL class G...K)	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	Type	Part Number		Pkg qty	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 markers	Blank marker		White	MG-CPM 13 41790	1SNB041790R0512		1960	0.236
		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

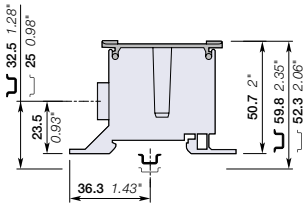
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

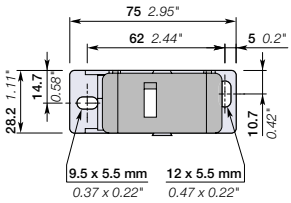
1SNC166020S0201

DBL160 power distribution blocks
Single pole - 28.2 mm 1.11 in spacing

1SNC166028V0014

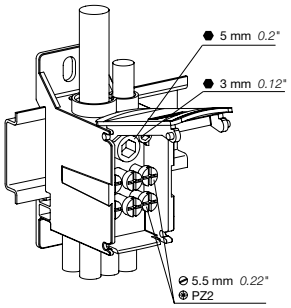
DBL160





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	Type	Part Number		Pkg qty	Weight 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 mm²	160 A / 2/0 AWG
	Aluminium	135 A / 70 mm²	
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 (SCCR)			100 kA
Rated peak withstand current (Ipk)		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

CE CB RoHS USR CSA EAC BV

Mounting & wiring instructions

Rail: TH 35-7.5, TH 35-15

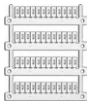
Connection Number		Size	Wire type		Wire stripping length	Tool	Torque
Input	1 x	Ø 11.8 mm Ø 0.46 in	16 ... 50 mm² 6 ... 1/0 AWG	16 ... 70 mm² 6 ... 2/0 AWG	18 mm 0.708 in	5 mm 0.20 in	6... 10 Nm 53 ... 88 lb.in
Output	1 x	Ø 6.8 mm Ø 0.27 in	2.5 ... 16 mm² 14 ... 6 AWG	6 ... 16 mm² 10 ... 6 AWG	11 mm 0.43 in	3 mm 0.12 in	2 ... 3 Nm 18 ... 26.5 lb.in
	6 x	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	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 2 non-adjacent holes in each row.

Not allowed Flexible without ferrule (IEC V-K, UL class G...K)	Flexible with ferrule (IEC V-K, UL class G...K)	Solid (IEC V-U class 1, UL solid)	Rigid stranded (IEC V-R class 2, UL class B/C)

Allen key Posidriv - flat screwdriver

1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Accessories

	Description			Color	Type	Part Number		Pkg qty	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 markers	Blank marker		White	MG-CPM 13 41790	1SNB041790R0512		1960	0.236
		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

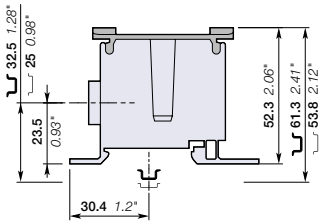
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

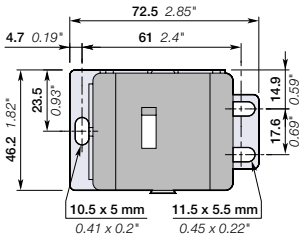
1SNC166014S0201

DBL175 power distribution blocks
Single pole - 46.2 mm 1.82 in spacing

1SNC166029W0014

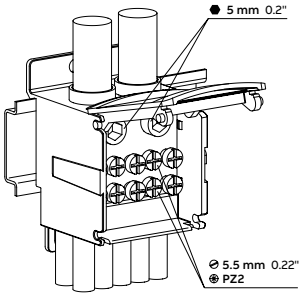
DBL175





46.2 mm 1.81 in spacing

Mounting instructions



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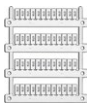


2

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	Type	Part Number		Pkg qty	Weight 1 pce g
Feed-through	Single pole distribution, 12 connections	Grey	DBL175	1SNL317510R0000		1	200

Main technical data

Connecting capacity		IEC	UL
Max current / Cross section	Copper	175 A / 70 mm²	175 A / 2/0 AWG
	Aluminium	135 A / 70 mm²	
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 (SCCR)			100 kA
Rated peak withstand current (Ipk)		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

CE CB RoHS USR CSA EAC BV

Mounting & wiring instructions

Rail: TH 35-7.5, TH 35-15

Connection Number	Size	Wire type		Wire stripping length	Tool	Torque
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 mm² 14 ... 6 AWG	11 mm 0.43 in	5.5 mm 0.22 in	2 ... 3 Nm 18 ... 26.5 lb.in

Not allowed Flexible without ferrule (IEC V-K, UL class G...K)	Flexible with ferrule (IEC V-K, UL class G...K)	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	Type	Part Number		Pkg qty	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 markers	Blank marker		White	MG-CPM 13 41790	1SNB041790R0512		1960	0.236
		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

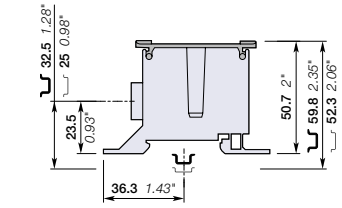
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

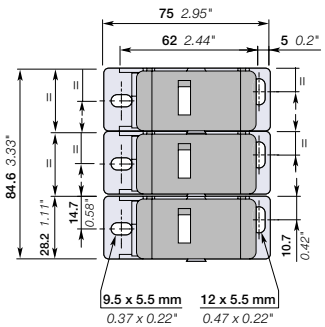
1SNC166015S0201

DBL175-C-3 power distribution blocks
3x1 pole - 84.6 mm 3.33 in spacing

X3

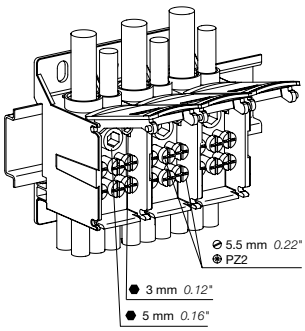
DBL175-C-3

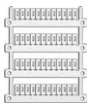




84.6 mm 3.33 in spacing

Mounting instructions



1 2 

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	Type	Part Number		Pkg qty	Weight 1 pce g
Feed-through	Three poles distribution block 3x8 connections	Grey	DBL175-C-3	1SNL317531R0000		1	360

Main technical data

Connecting capacity		IEC	UL
Max current / Cross section	Copper	175 A / 70 mm²	175 A / 2/0 AWG
	Aluminium	135 A / 70 mm²	
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 (SCCR)			
Rated peak withstand current (Ipk)		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

CE CB RoHS USR CSA EAC

Mounting & wiring instructions

Rail: TH 35-7.5, TH 35-15

Connection Number by pole		Size	Wire type		Wire stripping length	Tool	Torque
Input	1 x	Ø 11.8 mm Ø 0.46 in	16 ... 50 mm² 8 ... 1/0 AWG	16 ... 70 mm² 6 ... 2/0 AWG	18 mm 0.708 in	5 mm 0.20 in	6... 10 Nm 53 ... 88 lb.in
Output	1 x	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	3 mm 0.12 in	2 ... 3 Nm 18 ... 26.5 lb.in
	6 x	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	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 2 non-adjacent holes in each row.

Not allowed	Flexible with ferrule	Solid	Rigid stranded
Flexible without ferrule (IEC V-K, UL class G...K)	(IEC V-K, UL class G...K)	(IEC V-U class 1, UL solid)	(IEC V-R class 2, UL class B/C)

Allen key Posidriv - flat screwdriver

Accessories

	Description			Color	Type	Part Number		Pkg qty	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 markers	Blank marker		White	MG-CPM 13 41790	1SNB041790R0512		1960	0.236
		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

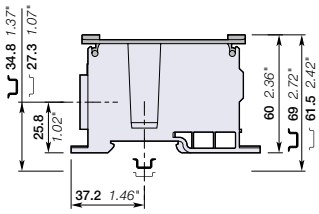
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

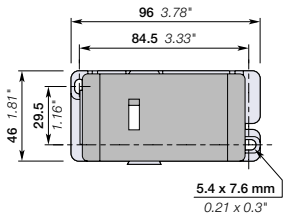
1SNC166021S0201

DBL250 power distribution blocks
Single pole - 46 mm 1.81 in spacing

1SNC166030V0014

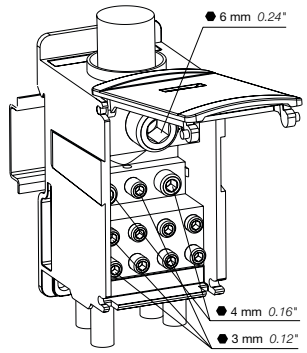
DBL250





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

Description		Color	Type	Part Number		Pkg qty	Weight 1 pce g
Feed-through	Single pole distribution, 12 connections	Grey	DBL250	1SNL325010R0000		1	439

Main technical data

Connecting capacity		IEC	UL
Max current / Cross section	Copper	250 A / 120 mm²	255 A / 250 Kcmil
	Aluminium	200 A / 120 mm²	
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 (Ipk)		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

CE CB RoHS USR CSA EAC EV

Mounting & wiring instructions

Rail: TH 35-7.5, TH 35-15

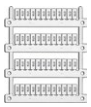
Connection Number		Size	Wire type		Wire stripping length	Tool	Torque
Input	1 x	Ø 15.3 mm Ø 0.60 in	35 ... 95 mm² 2 ... 3/0 AWG	35 ... 120 mm² 2 ... 250 Kcmil	28 mm 1.10 in	6 mm 0.24 in	19 ... 21 Nm 168 ... 185 lb.in
Output	2 x	Ø 8.7 mm Ø 0.34 in	2.5 ... 25 mm² 14 ... 4 AWG	2.5 ... 35 mm² 14 ... 2 AWG	11 mm 0.43 in	4 mm 0.16 in	3.5 ... 5 Nm 31 ... 44 lb.in
	5 x	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	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 mm² 14 ... 8 AWG	2.5 ... 10 mm² 14 ... 8 AWG	11 mm 0.43 in	3 mm 0.12 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 (IEC V-K, UL class G...K)	Flexible with ferrule (IEC V-K, UL class G...K)	Solid (IEC V-U class 1, UL solid)	Rigid stranded (IEC V-R class 2, UL class B/C)

Allen key Posidriv - flat screwdriver

1


2

Accessories

	Description			Color	Type	Part Number		Pkg qty	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 markers	Blank marker		White	MG-CPM 13 41790	1SNB041790R0512		1960	0.236
		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

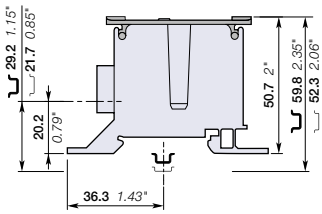
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

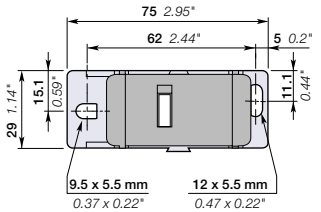
1SNC166016S0201

DBL250-F power distribution blocks
Single pole - Flat entry - 29 mm 1.14 in spacing

1SNC166052V0014

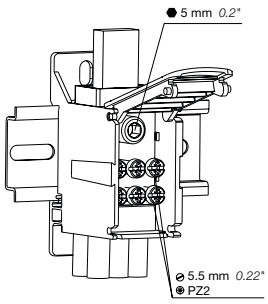
DBL250-F





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

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 (SCCR)			Please consult us
Rated peak withstand current (Ipk)		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

CE RoHS USR CSA EAC

Mounting & wiring instructions

Rail: TH 35-7.5, TH 35-15

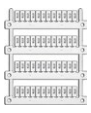
Connection Number	Size	Wire type		Wire stripping length	Tool	Torque
Input 1 x	15.5 x 7.5 mm 0.59 x 0.28 in	12 x 4 mm	3 x 9 x 0.8 mm ... ... 6 x 15.5 x 0.8 mm	15 mm 0.59 in	5 mm 0.20 in	13.5 Nm 120 lb.in
Output 6 x	Ø 6.6 mm Ø 0.26 in	2.5 ... 16 mm² 14 ... 6 AWG	2.5 ... 16 mm² 14 ... 6 AWG	11 mm 0.43 in	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 2 non-adjacent holes in each row.

Not allowed Flexible without ferrule (IEC V-K, UL class G...K)	Flexible with ferrule (IEC V-K, UL class G...K)	Solid (IEC V-U class 1, UL solid)	Rigid stranded (IEC V-R class 2, UL class B/C)	Solid busbar	Flexible busbar

Allen key Posidriv - flat screwdriver

1



2

Accessories

	Description			Color	Type	Part Number		Pkg qty	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 markers	Blank marker		White	MG-CPM 13 41790	1SNB041790R0512		1960	0.236
		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

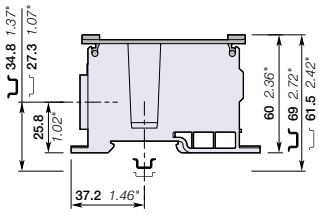
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

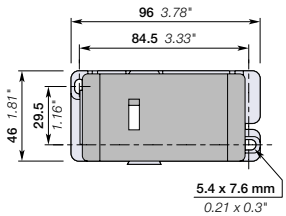
1SNC166022S0201

DBL400 power distribution blocks
Single pole - 46 mm 1.81 in spacing

1SNC166031W0014

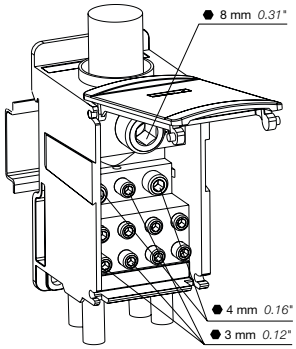
DBL400





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	Type	Part Number		Pkg qty	Weight 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 mm²	335 A / 400 Kcmil
	Aluminium	300 A / 185 mm²	
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 (SCCR)			100 kA
Rated peak withstand current (Ipk)		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

CE CB RoHS USR CSA EAC EV

Mounting & wiring instructions

Rail: TH 35-7.5, TH 35-15

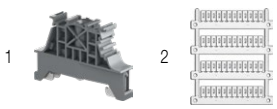
Connection Number		Size	Wire type		Wire stripping length	Tool	Torque
Input	1 x	Ø 18.8 mm Ø 0.74 in	95 ... 150 mm² 3/0 ... 300 Kcmil	95 ... 185 mm² 3/0 ... 400 Kcmil	28 mm 1.10 in	8 mm 0.31 in	25 Nm 221 lb.in
Output	2 x	Ø 8.7 mm Ø 0.34 in	2.5 ... 25 mm² 14 ... 4 AWG	2.5 ... 35 mm² 14 ... 2 AWG	11 mm 0.43 in	4 mm 0.16 in	3.5 ... 5 Nm 31 ... 44 lb.in
	5 x	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	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 mm² 14 ... 8 AWG	2.5 ... 10 mm² 14 ... 8 AWG	11 mm 0.43 in	3 mm 0.12 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 (IEC V-K, UL class G...K)	Flexible with ferrule (IEC V-K, UL class G...K)	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	Type	Part Number		Pkg qty	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 markers	Blank marker		White	MG-CPM 13 41790	1SNB041790R0512		1960	0.236
		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

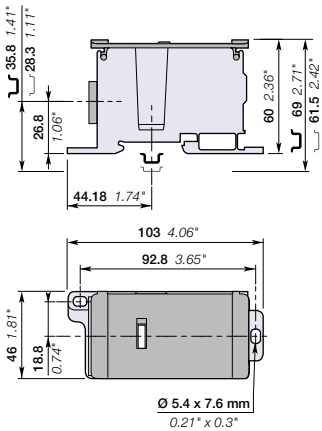
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

1SNC166017S0201

DBL400-PV power distribution blocks
Single pole - 46 mm 1.81 in spacing

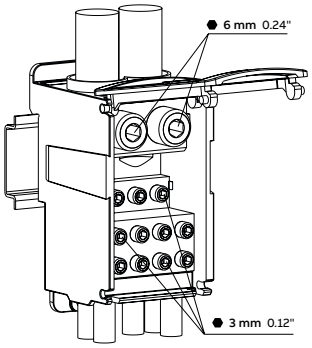
1SNC166053W0014

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

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 (SCCR)			Please consult us
Rated peak withstand current (Ipk)		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 CB RoHS USR CSA EAC

Mounting & wiring instructions

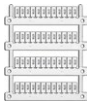
Rail: TH 35-7.5, TH 35-15

Connection Number	Size	Wire type		Wire stripping length	Tool	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.in
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.in

Not allowed	Flexible with ferrule	Solid	Rigid stranded
Flexible without ferrule (IEC V-K, UL class G...K)	(IEC V-K, UL class G...K)	(IEC V-U class 1, UL solid)	(IEC V-R class 2, UL class B/C)

Allen key Posidriv - flat screwdriver

1


2

Accessories

	Description			Color	Type	Part Number		Pkg qty	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 markers	Blank marker		White	MG-CPM 13 41790	1SNB041790R0512		1960	0.236
		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

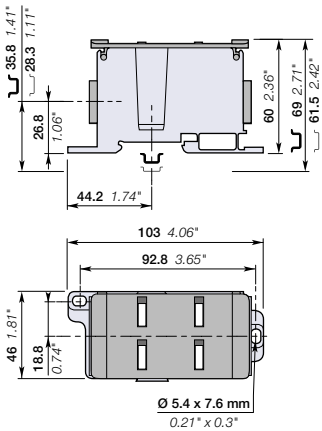
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

1SNC166024S0201

DBL500-22 Power Distribution Blocks
Single pole - 46 mm 1.81 in spacing

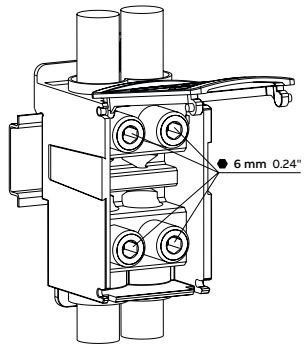
1SNC166054V0014

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

Main technical data

Connecting capacity		IEC	UL
Max current / Cross section	Copper	500 A / (2x) 95 mm²	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 (SCCR)			Please consult us
Rated peak withstand current (Ipk)		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 CB RoHS USR CSA EAC

Mounting & wiring instructions

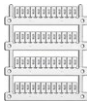
Rail: TH 35-7.5, TH 35-15

Connection Number	Size	Wire type		Wire stripping length	Tool	Torque
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 G...K)	Flexible with ferrule (IEC V-K, UL class G...K)	Solid (IEC V-U class 1, UL solid)	Rigid stranded (IEC V-R class 2, UL class B/C)

Allen key Posidriv - flat screwdriver

1


2

Accessories

	Description			Color	Type	Part Number		Pkg qty	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 Markers	Blank marker		White	MG-CPM 13 41790	1SNB041790R0512		1960	0.236
		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

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.

1SNC166025S0201

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