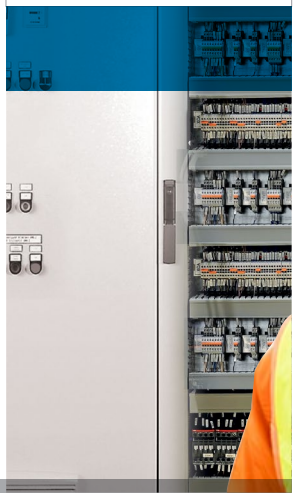
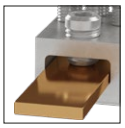


# DBL POWER DISTRIBUTION BLOCKS

ENTRELEC Terminal Blocks


## The clever distribution concept

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



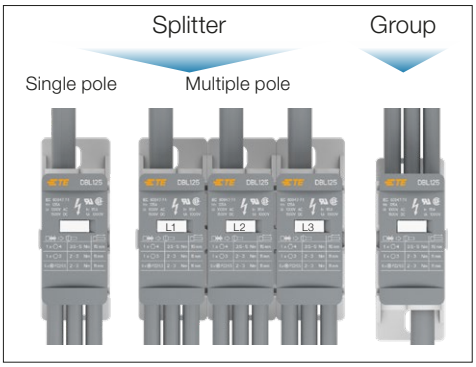
## Easy to install

**3 configurations in 1 product:**

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

**Flexible cover facilitates identification & wiring:**

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



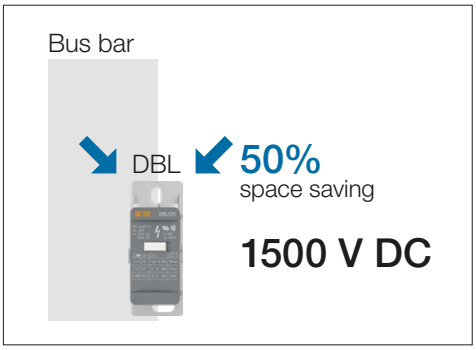

## Space saving

**Panel space saving:**

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

**1 500 V DC:**

Voltage rating adapted to most recent solar inverters requirements.




## Increased productivity

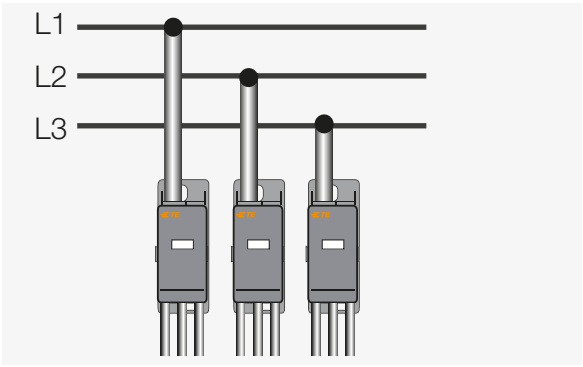
**Reduced wiring, inventories, hardware and assembly costs:**

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

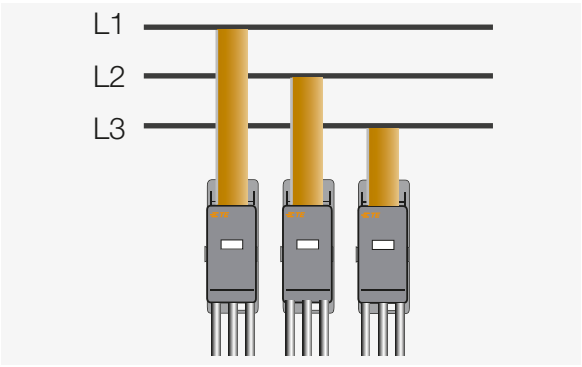

1SNC166009S0201 - Rev. D

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

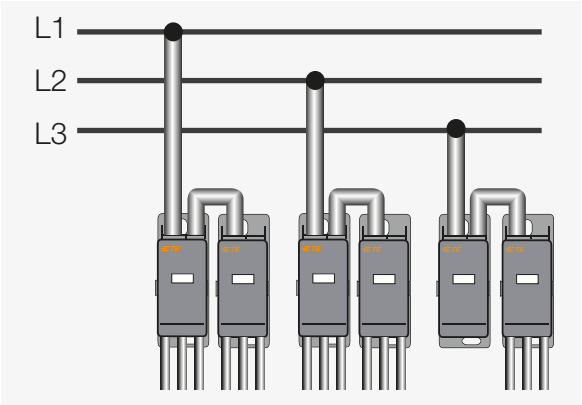
**3 Phases**
DBL80, DBL125, DBL160, DBL175, DBL250, DBL400, DBL125-3, DBL175-C-3



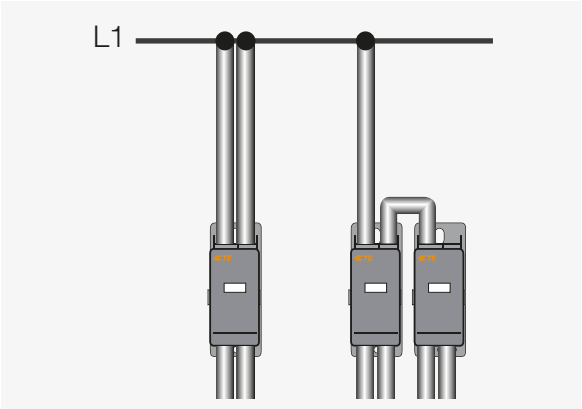

**3 Phases for flat conductor**
DBL250-F, DBL500-F




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

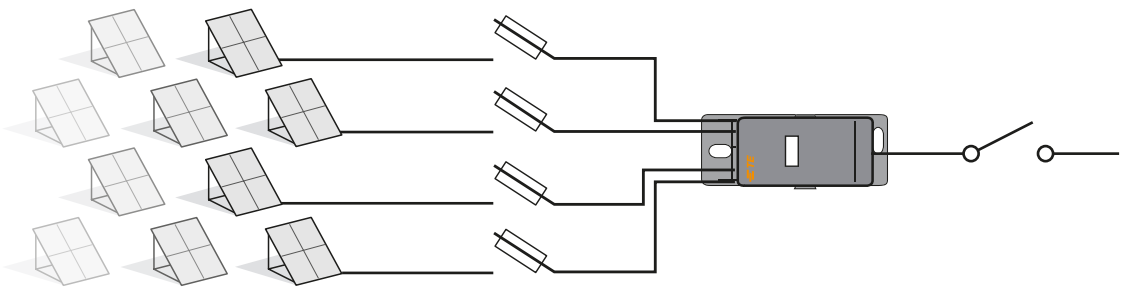



**2 in/2 out configuration**
DBL500-22




## 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

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

## Single pole

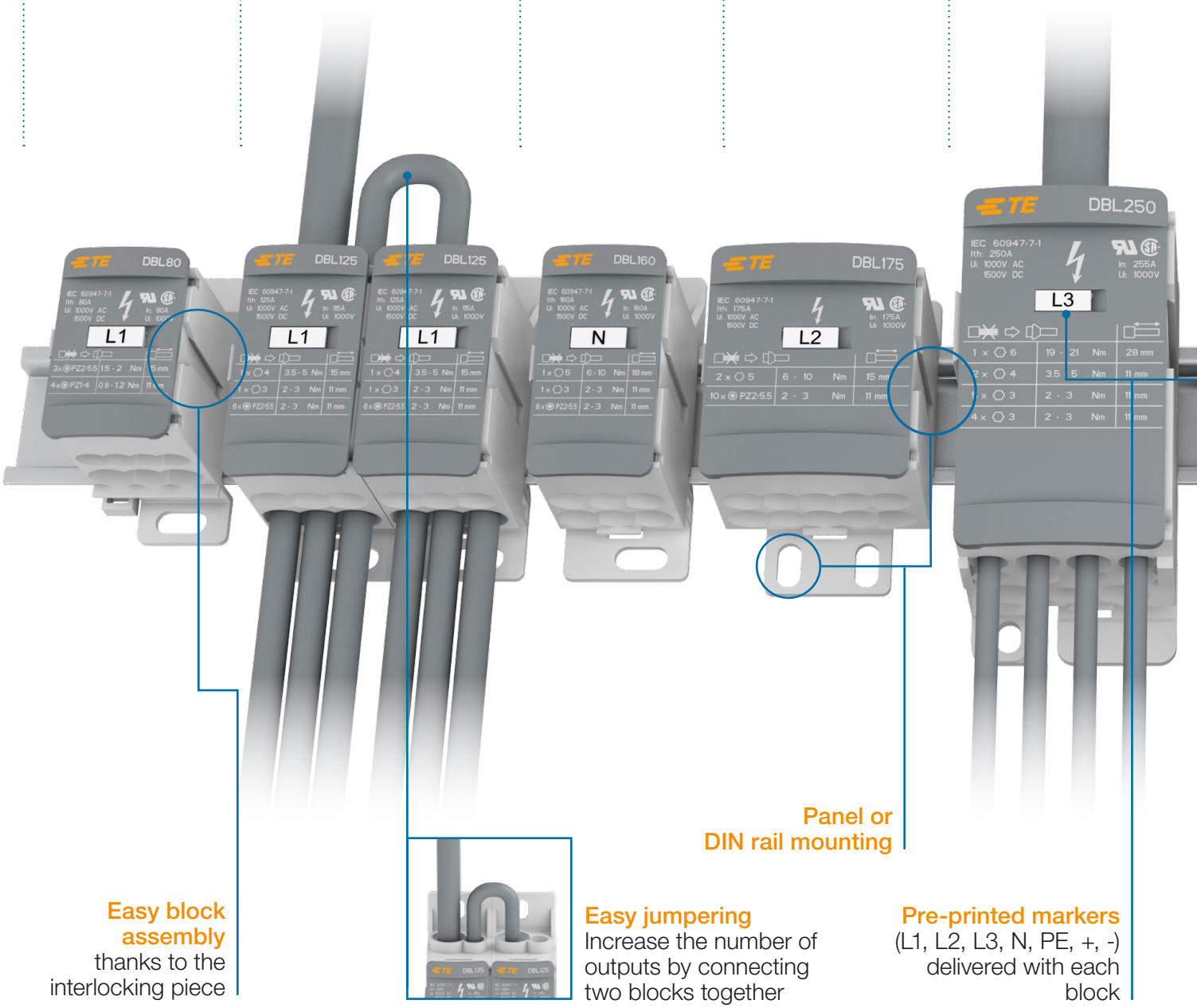
**DBL80**
7 connections

**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

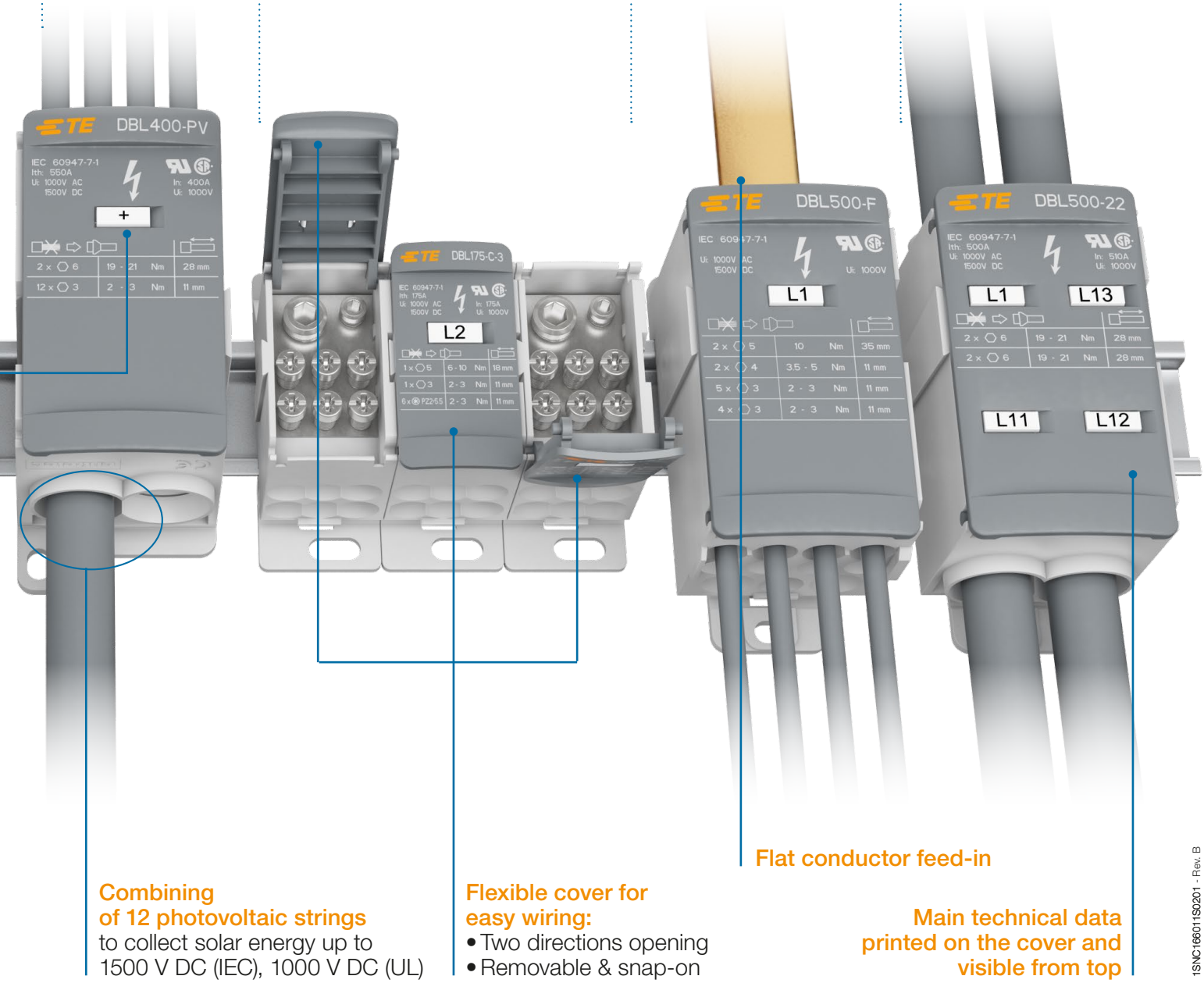
DBL125-3 and
DBL175-C-3
8x3 connections

## 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<br>Coming soon |

## Three poles

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

## 2 in/2 out

| 4 |
|---|
| |
| |
| |
| |
| |
| |
| DBL500-22 |
| |

## Solar

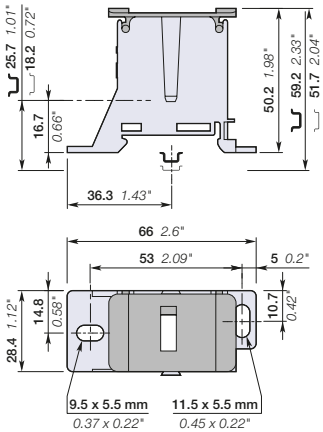
| 14 |
|---|
| |
| |
| |
| |
| |
| |
| |
| DBL400-PV |

1SNC166026S0201 - Rev. B

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

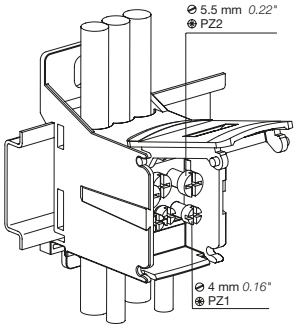
DBL80

1SNC166026V0014




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

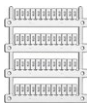
## Mounting & wiring instructions

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<br>Ø 0.26 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 2.5 ... 16 mm²<br>14 ... 4 AWG | 15 mm<br>0.59 in | 5.5 mm<br>0.22 in | 1.5 ... 2 Nm<br>13.5 ... 18 lb.in |
| Output | 4 x | Ø 4.5 mm<br>Ø 0.18 in | 2.5 ... 6 mm²<br>14 ... 10 AWG | 2.5 ... 6 mm²<br>14 ... 10 AWG | 11 mm<br>0.43 in | 4 mm<br>0.16 in | 0.8 ... 1.2 Nm<br>7.2 ... 10.8 lb.in |

| Not allowed<br>Flexible without ferrule<br>(IEC V-K & UL: class 5/6) | Flexible with insulated ferrule<br>(IEC V-K & UL: class 5/6) | Rigid Solid<br>(IEC V-U class 1, UL solid) | Rigid Stranded<br>(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 |

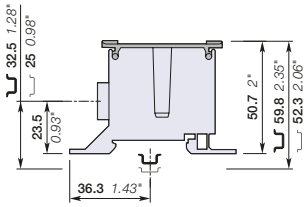
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

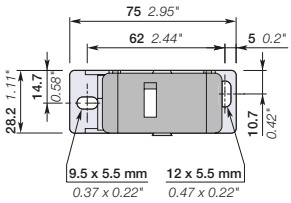
1SNC166012S0201

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

1SNC166027V0014

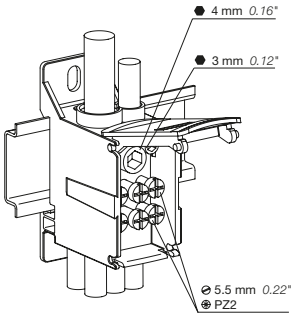
DBL125




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

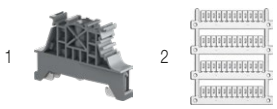
Rail: TH 35-7.5, TH 35-15

| Connection Number | | Size | Wire type | | Wire stripping length | Tool | Torque |
|---|---|---|---|---|---|---|---|
| Input | 1 x | Ø 9.8 mm<br>Ø 0.39 in | 10 ... 35 mm²<br>8 ... 2 AWG | 10 ... 35 mm²<br>8 ... 2 AWG | 15 mm<br>0.59 in | 4 mm<br>0.16 in | 3.5 ... 5 Nm<br>31 ... 44 lb.in |
| Output | 1 x | Ø 6.8 mm<br>Ø 0.27 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 6 ... 16 mm²<br>10 ... 6 AWG | 11 mm<br>0.43 in | 3 mm<br>0.12 in | 2 ... 3 Nm<br>18 ... 26.5 lb.in |
| | 6 x | Ø 6.4 mm<br>Ø 0.25 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 2.5 ... 16 mm²<br>14 ... 6 AWG | 11 mm<br>0.43 in | 5.5 mm<br>0.22 in | 2 ... 3 Nm<br>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 insulated ferrule | Rigid Solid | Rigid stranded |
|---|---|---|---|
| Flexible without ferrule (IEC V-K & UL: class 5/6) | (IEC V-K & UL: class 5/6) | (IEC V-U class 1, UL solid) | (IEC V-R class 2, UL class B/C) |

Allen key  Posidriv - flat screwdriver




## Accessories

| | Description | | | Color | 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 |

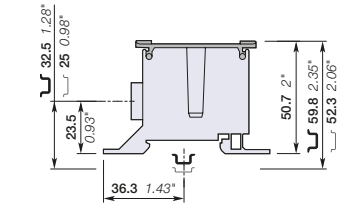
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

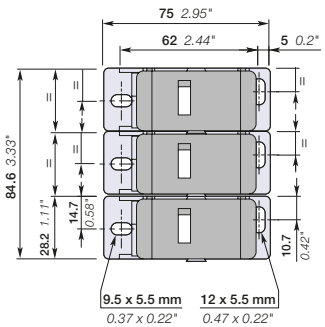
1SNC166013S0201

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

X3

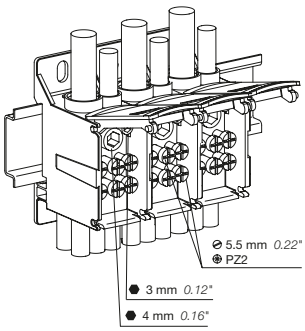

DBL125-3

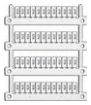



84.6 mm 3.33 in spacing

## 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<br>Ø 0.39 in | 10 ... 35 mm²<br>8 ... 2 AWG | 10 ... 35 mm²<br>8 ... 2 AWG | 15 mm<br>0.59 in | 4 mm<br>0.16 in | 3.5 ... 5 Nm<br>31 ... 44 lb.in |
| Output | 1 x | Ø 6.8 mm<br>Ø 0.27 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 6 ... 16 mm²<br>10 ... 6 AWG | 11 mm<br>0.43 in | 3 mm<br>0.12 in | 2 ... 3 Nm<br>18 ... 26.5 lb.in |
| | 6 x | Ø 6.4 mm<br>Ø 0.25 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 2.5 ... 16 mm²<br>14 ... 6 AWG | 11 mm<br>0.43 in | 5.5 mm<br>0.22 in | 2 ... 3 Nm<br>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 insulated ferrule | Rigid Solid | Rigid stranded |
|---|---|---|---|
| Flexible without ferrule (IEC V-K & UL: class 5/6) | (IEC V-K & UL: class 5/6) | (IEC V-U class 1, UL solid) | (IEC V-R class 2, UL class B/C) |

Allen key  Posidriv - flat screwdriver

## Accessories

| | Description | | | Color | 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 |

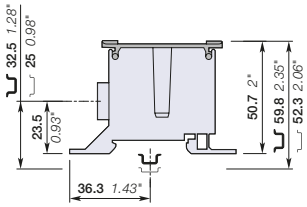
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

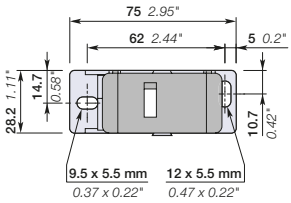
1SNC166020S0201

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

1SNC166028V0014

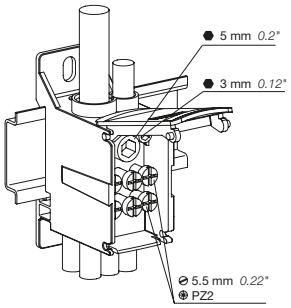
DBL160




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

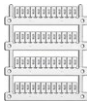
| Connection Number | | Size | Wire type | | Wire stripping length | Tool | Torque |
|---|---|---|---|---|---|---|---|
| Input | 1 x | Ø 11.8 mm<br>Ø 0.46 in | 16 ... 50 mm²<br>6 ... 1/0 AWG | 16 ... 70 mm²<br>6 ... 2/0 AWG | 18 mm<br>0.708 in | 5 mm<br>0.20 in | 6... 10 Nm<br>53 ... 88 lb.in |
| Output | 1 x | Ø 6.8 mm<br>Ø 0.27 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 6 ... 16 mm²<br>10 ... 6 AWG | 11 mm<br>0.43 in | 3 mm<br>0.12 in | 2 ... 3 Nm<br>18 ... 26.5 lb.in |
| | 6 x | Ø 6.4 mm<br>Ø 0.25 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 2.5 ... 16 mm²<br>14 ... 6 AWG | 11 mm<br>0.43 in | 5.5 mm<br>0.22 in | 2 ... 3 Nm<br>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<br>Flexible without ferrule<br>(IEC V-K & UL: class 5/6) | Flexible with insulated ferrule<br>(IEC V-K & UL: class 5/6) | Rigid Solid<br>(IEC V-U class 1, UL solid) | Rigid stranded<br>(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 |

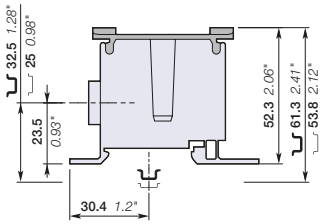
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

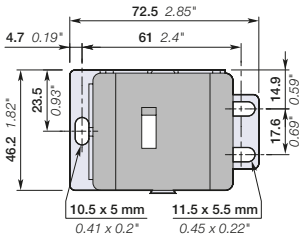
1SNC166014S0201

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


1SNC166029W0014

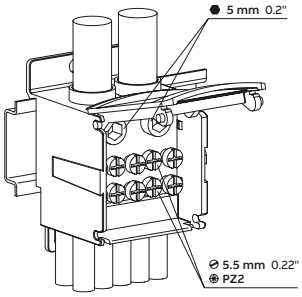
DBL175



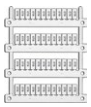




46.2 mm 1.81 in spacing

## Mounting instructions




1



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<br>Ø 0.46 in | 10 ... 50 mm²<br>8 ... 1/0 AWG | 10 ... 70 mm²<br>6 ... 2/0 AWG | 15 mm<br>0.708 in | 5 mm<br>0.20 in | 6... 10 Nm<br>53 ... 88 lb.in |
| Output 10 x | Ø 6.4 mm<br>Ø 0.25 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 2.5 ... 16 mm²<br>14 ... 6 AWG | 11 mm<br>0.43 in | 5.5 mm<br>0.22 in | 2 ... 3 Nm<br>18 ... 26.5 lb.in |

| Not allowed<br>Flexible without ferrule<br>(IEC V-K & UL: class 5/6) | Flexible with insulated ferrule<br>(IEC V-K & UL: class 5/6) | Rigid Solid<br>(IEC V-U class 1, UL solid) | Rigid stranded<br>(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 |

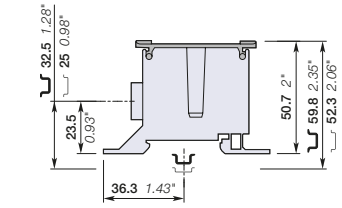
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

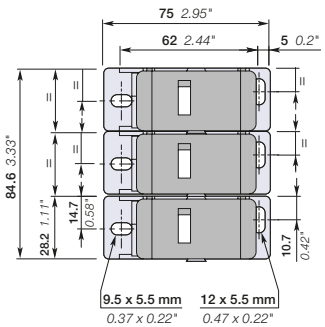
1SNC166015S0201

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

X3

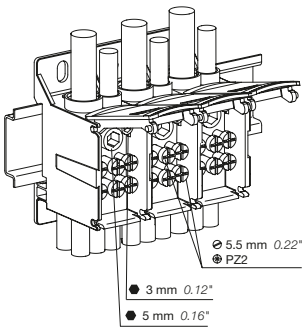

DBL175-C-3

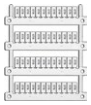



84.6 mm 3.33 in spacing

## 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<br>Ø 0.46 in | 16 ... 50 mm²<br>8 ... 1/0 AWG | 16 ... 70 mm²<br>6 ... 2/0 AWG | 18 mm<br>0.708 in | 5 mm<br>0.20 in | 6... 10 Nm<br>53 ... 88 lb.in |
| Output | 1 x | Ø 6.8 mm<br>Ø 0.27 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 6 ... 16 mm²<br>10 ... 6 AWG | 11 mm<br>0.43 in | 3 mm<br>0.12 in | 2 ... 3 Nm<br>18 ... 26.5 lb.in |
| | 6 x | Ø 6.4 mm<br>Ø 0.25 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 2.5 ... 16 mm²<br>14 ... 6 AWG | 11 mm<br>0.43 in | 5.5 mm<br>0.22 in | 2 ... 3 Nm<br>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 insulated ferrule | Rigid Solid | Rigid stranded |
|---|---|---|---|
| Flexible without ferrule (IEC V-K & UL: class 5/6) | (IEC V-K & UL: class 5/6) | (IEC V-U class 1, UL solid) | (IEC V-R class 2, UL class B/C) |

Allen key  Posidriv - flat screwdriver

## Accessories

| | Description | | | Color | 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 |

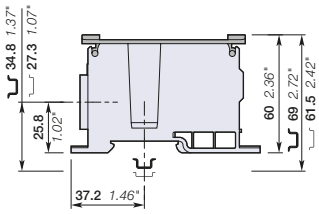
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

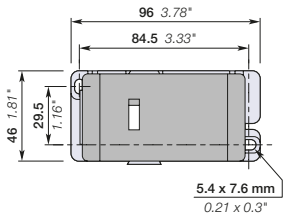
1SNC166021S0201

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


1SNC166030V0014

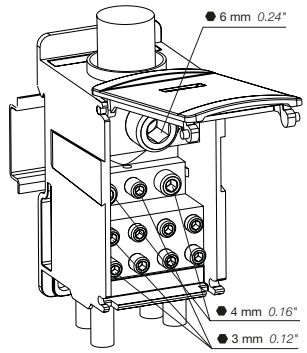
DBL250




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

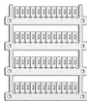
| Connection Number | | Size | Wire type | | Wire stripping length | Tool | Torque |
|---|---|---|---|---|---|---|---|
| Input | 1 x | Ø 15.3 mm<br>Ø 0.60 in | 35 ... 95 mm²<br>2 ... 3/0 AWG | 35 ... 120 mm²<br>2 ... 250 Kcmil | 28 mm<br>1.10 in | 6 mm<br>0.24 in | 19 ... 21 Nm<br>168 ... 185 lb.in |
| Output | 2 x | Ø 8.7 mm<br>Ø 0.34 in | 2.5 ... 25 mm²<br>14 ... 4 AWG | 2.5 ... 35 mm²<br>14 ... 2 AWG | 11 mm<br>0.43 in | 4 mm<br>0.16 in | 3.5 ... 5 Nm<br>31 ... 44 lb.in |
| | 5 x | Ø 6.4 mm<br>Ø 0.25 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 2.5 ... 16 mm²<br>14 ... 6 AWG | 11 mm<br>0.43 in | 3 mm<br>0.12 in | 2 ... 3 Nm<br>18 ... 26.5 lb.in |
| | 4 x | Ø 5.7 mm<br>Ø 0.22 in | 2.5 ... 10 mm²<br>14 ... 8 AWG | 2.5 ... 10 mm²<br>14 ... 8 AWG | 11 mm<br>0.43 in | 3 mm<br>0.12 in | 2 ... 3 Nm<br>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<br>Flexible without ferrule<br>(IEC V-K & UL: class 5/6) | Flexible with insulated ferrule<br>(IEC V-K & UL: class 5/6) | Rigid Solid<br>(IEC V-U class 1, UL solid) | Rigid stranded<br>(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 |

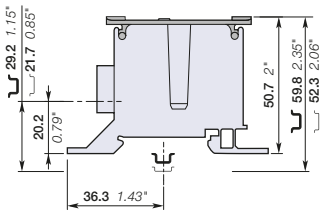
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

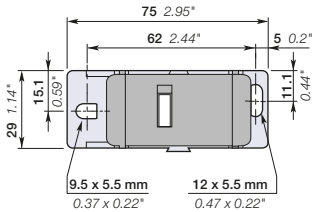
1SNC166016S0201

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

1SNC166052V0014

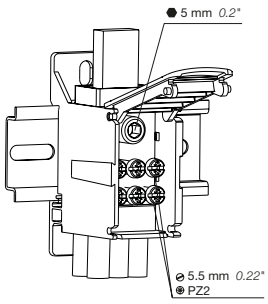
DBL250-F




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<br>0.59 x 0.28 in | 12 x 4 mm | 3 x 9 x 0.8 mm ...<br>... 6 x 15.5 x 0.8 mm | 15 mm<br>0.59 in | 5 mm<br>0.20 in | 13.5 Nm<br>120 lb.in |
| Output 6 x | Ø 6.6 mm<br>Ø 0.26 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 2.5 ... 16 mm²<br>14 ... 6 AWG | 11 mm<br>0.43 in | 5.5 mm<br>0.22 in | 2 ... 3 Nm<br>18 ... 26.5 lb.in |

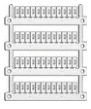
When using maximum cable size with insulated ferrules, use a maximum of 2 non-adjacent holes in each row.

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

Allen key  Posidriv - flat screwdriver

## Accessories


1


2

| | 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 |

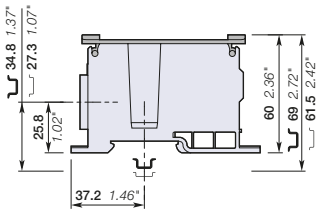
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

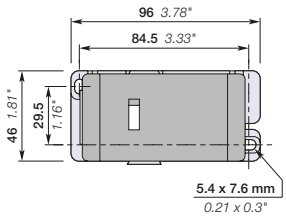
1SNC166022S0201

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


1SNC166031W0014

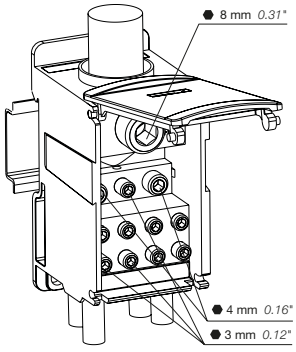
DBL400




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

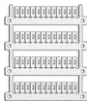
| Connection Number | | Size | Wire type | | Wire stripping length | Tool | Torque |
|---|---|---|---|---|---|---|---|
| Input | 1 x | Ø 18.8 mm<br>Ø 0.74 in | 95 ... 150 mm²<br>3/0 ... 300 Kcmil | 95 ... 185 mm²<br>3/0 ... 400 Kcmil | 28 mm<br>1.10 in | 8 mm<br>0.31 in | 25 Nm<br>221 lb.in |
| Output | 2 x | Ø 8.7 mm<br>Ø 0.34 in | 2.5 ... 25 mm²<br>14 ... 4 AWG | 2.5 ... 35 mm²<br>14 ... 2 AWG | 11 mm<br>0.43 in | 4 mm<br>0.16 in | 3.5 ... 5 Nm<br>31 ... 44 lb.in |
| | 5 x | Ø 6.4 mm<br>Ø 0.25 in | 2.5 ... 16 mm²<br>14 ... 6 AWG | 2.5 ... 16 mm²<br>14 ... 6 AWG | 11 mm<br>0.43 in | 3 mm<br>0.12 in | 2 ... 3 Nm<br>18 ... 26.5 lb.in |
| | 4 x | Ø 5.7 mm<br>Ø 0.22 in | 2.5 ... 10 mm²<br>14 ... 8 AWG | 2.5 ... 10 mm²<br>14 ... 8 AWG | 11 mm<br>0.43 in | 3 mm<br>0.12 in | 2 ... 3 Nm<br>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<br>Flexible without ferrule<br>(IEC V-K & UL: class 5/6) | Flexible with insulated ferrule<br>(IEC V-K & UL: class 5/6) | Rigid Solid<br>(IEC V-U class 1, UL solid) | Rigid stranded<br>(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 |

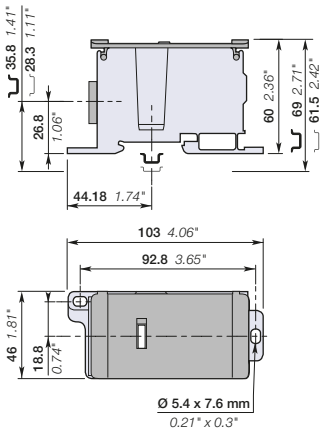
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

1SNC166017S0201

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

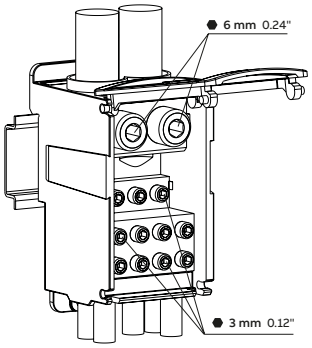

1SNC166053W0014

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

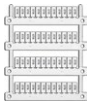
Rail: TH 35-7.5, TH 35-15

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

| Not allowed<br>Flexible without ferrule<br>(IEC V-K & UL: class 5/6) | Flexible with insulated ferrule<br>(IEC V-K & UL: class 5/6) | Rigid Solid<br>(IEC V-U class 1, UL solid) | Rigid stranded<br>(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 |

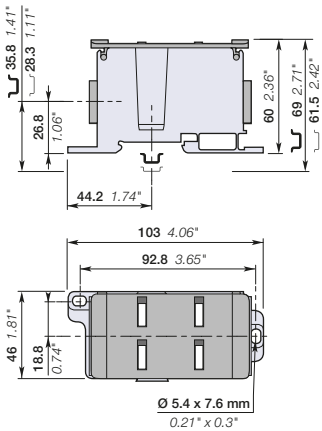
Complete list of accessories is indicated in the terminal block datasheet including end stops. Some accessories such as jumper bars may modify the terminal block's ratings: Complete information available in the accessories section of the catalog.

1SNC166024S0201

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

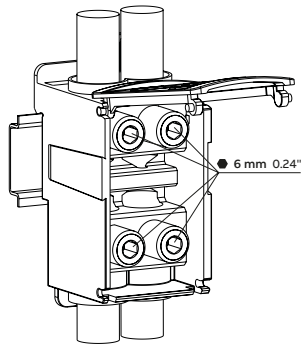

1SNC166054V0014

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

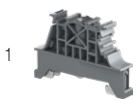
Rail: TH 35-7.5, TH 35-15

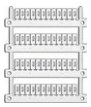
| Connection Number | Size | Wire type | | Wire stripping length | Tool | Torque |
|---|---|---|---|---|---|---|
| Input 2 x | Ø 15.5 mm<br>Ø 0.61 in | 25 ... 95 mm²<br>4 ... 3/0 AWG | 25 ... 120 mm²<br>4 ... 250 Kcmil | 28 mm<br>1.1 in | 6 mm<br>0.24 in | 19 ... 21 Nm<br>168 ... 185 lb.in |
| Output 2 x | Ø 15.5 mm<br>Ø 0.61 in | 25 ... 95 mm²<br>4 ... 3/0 AWG | 25 ... 120 mm²<br>4 ... 250 Kcmil | 28 mm<br>1.1 in | 6 mm<br>0.24 in | 19 ... 21 Nm<br>168 ... 185 lb.in |

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

Allen key  Posidriv - flat screwdriver

### Accessories




| | Description | | | Color | 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

# Index
## Part Number/Type classification





1-1773959-2_Index_TE

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**1-1773959-2_EN** **07/19**

**TE Connectivity**

3, rue Jean Perrin
69687 Chassieu cedex
France

Tel: +33 472172222

**www.te.com/**