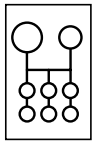
ENTRELEC TERMINAL BLOCKS
DBL POWER DISTRIBUTION BLOCKS - DBL125

Screw Clamp Technology

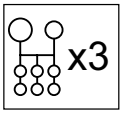
1000 VAC / 1500 VDC (IEC) - 1000 V (UL), 125 A

INTRODUCTION

TE Connectivity (TE)'s compact and modular **power distribution blocks** distribute electrical circuits from a single input source to several devices in the branch circuit. Power distribution blocks are easy to install, save space, and allow increased productivity as well as flexibility of use. They are used in applications such as industrial and commercial panels HVAC, machinery, power distribution units (PDU), and commercial panels.



SINGLE POLE - DBL125



3X1 POLE - DBL125-3

FEATURES

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
  - 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 copper bars bars thanks to our modular compact design.
- 1500VDC: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 reduces the needs for bus bars, isolators, fasteners, protection screens.
  - Accept aluminum & copper conductors.
  - 1 product in stock for 3 possible configurations.

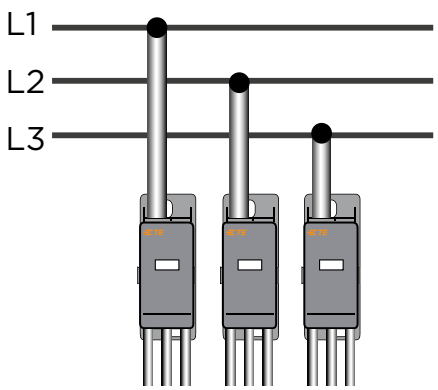
APPROVALS

ENTRELEC DBL POWER DISTRIBUTION BLOCKS

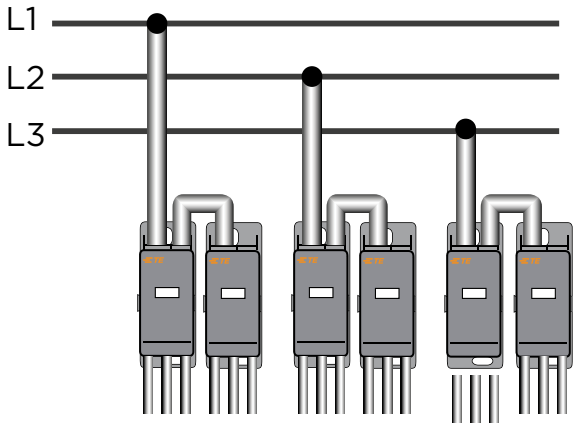
Screw clamp technology

DISTRIBUTING POWER IN INDUSTRIAL AND COMMERCIAL PANELS HVAC, MACHINERY, POWER DISTRIBUTION UNIT (PDU), COMMERCIAL PANELS

3 Phases



3 Phases with jumpering wire



MAIN TECHNICAL DATA

Description		IEC		UL	
		Single pole	3x1 pole	Single pole	3x1 pole
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	

Wire Range kcmil/AWG Line, Load		OverCurrent Protection Fuse Required Class/Max Amp Rating						Torque (Nm)	Short Circuit Current Rating (SCCR), RMS Sym A (Single phase only)	Volts Max AC
		RK1	RK5	J	T	G	CC			
DBL125	Input 1 : 8-2 AWG	200A	100A	250A	300A	60A	30A	3.5-5	100kA	600
	Input 2 : 10-6 AWG							2-3		
DBL125-3	Output : 6x (6-14 AWG)							2-3		

UL Flammability rating :

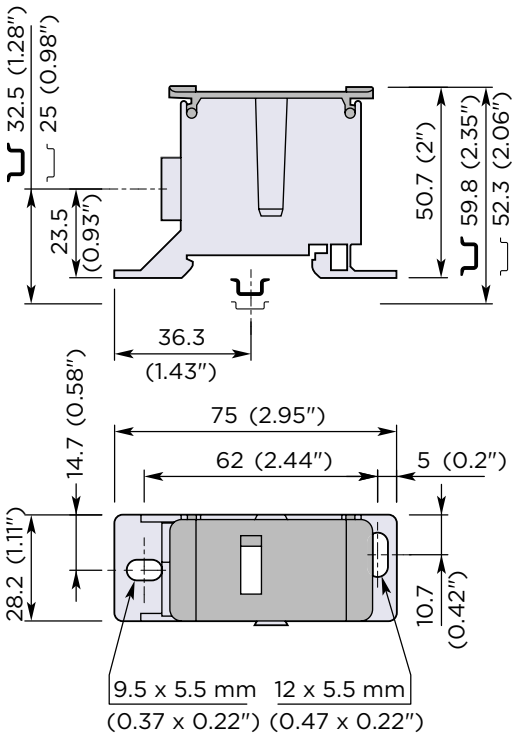
Operating temperature range :

Installation temperature range:

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

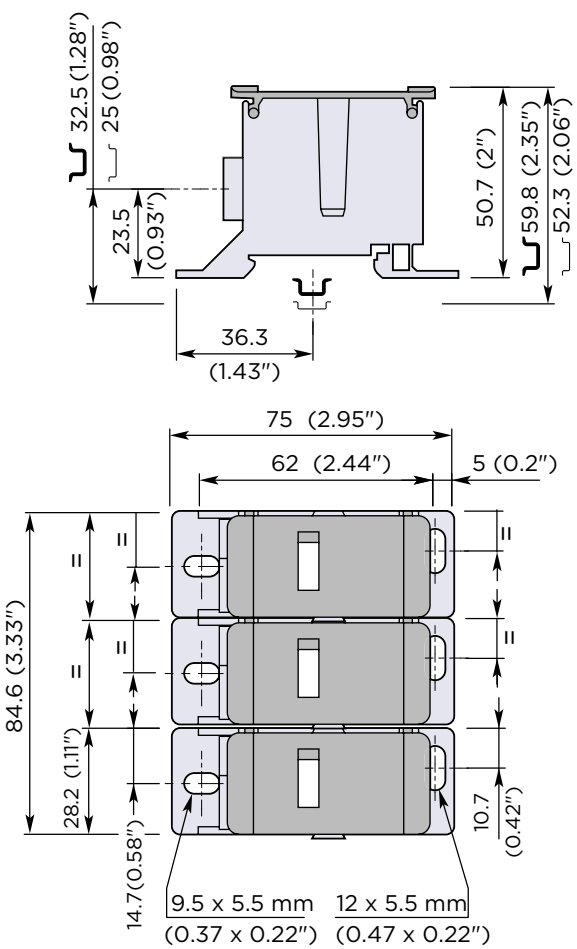
DIMENSIONS: mm(in)

Single pole - DBL125



28.2 mm 1.11 in spacing

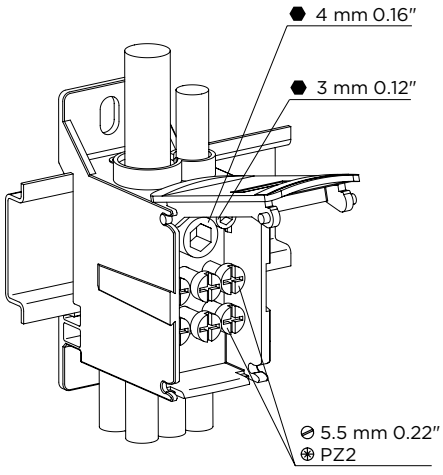
3x1 pole - DBL125-3



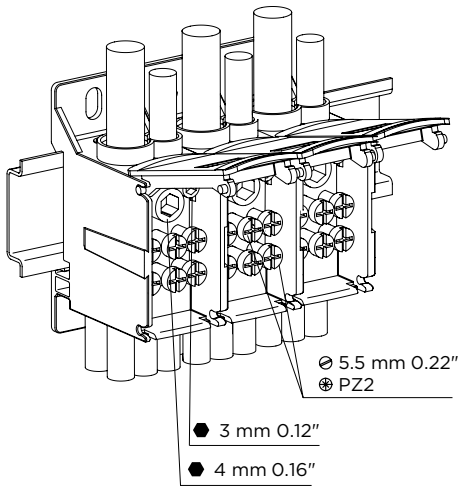
84.6 mm 3.33 in spacing

MOUNTING & WIRING INSTRUCTIONS

Single pole - DBL125



3x1 pole - DBL125-3



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Screw clamp technology

	TH 35-7.5	Rail
	TH 35-15	
	Not allowed Flexible without ferrule (IEC V-K & UL: class 5/6)	
	Flexible with insulated ferrule (IEC V-K & UL: class 5/6)	
	Rigid Solid (IEC V-U class 1, UL solid)	
	Rigid Stranded (IEC V-R class 2, UL class B/C)	
	Allen key	
	Posidriv - flat screwdriver	

Connection Number	Size	Wire Type		Wire stripping length	Tool		Torque
							
Input  X1	Ø 9.8 mm	10 ... 35 mm²	10 ... 35 mm²	15 mm		4 mm	3.5 ... 5 Nm
	Ø 0.39 in	8 ... 2 AWG	8 ... 2 AWG	0.59 in		0.16 in	31 ... 44 lb.in
Output  X1	Ø 6.8 mm	2.5 ... 16 mm²	6 ... 16 mm²	11 mm		3 mm	2 ... 3 Nm
	Ø 0.27 in	14 ... 6 AWG	10 ... 6 AWG	0.43 in		0.12 in	18 ... 26.5 lb.in
Output  X6	Ø 6.4 mm	2.5 ... 16 mm²	2.5 ... 16 mm²	11 mm		5.5 mm	2 ... 3 Nm
	Ø 0.25 in	14 ... 6 AWG	14 ... 6 AWG	0.43 in		0.22 in	18 ... 26.5 lb.in

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

ORDERING DETAILS

Description		Color	Type	Part Number	Pkg qty	Weight 1 Piece (g)
Feed-through	Single pole distribution, 8 connections	Grey	DBL125	1SNL312510R0000	1	122
	Three poles distribution block 3x8 connections		DBL125-3	1SNL312530R0000	1	367

ACCESSORIES ORDERING DETAILS

Description			Color	Type	Part Number	Pkg qty	Weight - 1 Piece (g)
End stops	10 mm	0.394 in	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
Terminal block markers	Blank card		Green	MC512PA-GN	1SNK149997R0000	20	10.00
			Blue	MC512PA-BL	1SNK149998R0000	20	10.00
			White	MC512PA	1SNK149999R0000	20	10.00
	Pre-printed marker card (L1-L2-L3-N-PE)			MC512PA	1SNK149002R0000	1	10.00

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

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