

Thomas & Betts

Insulated for Quick and Safe Termination!

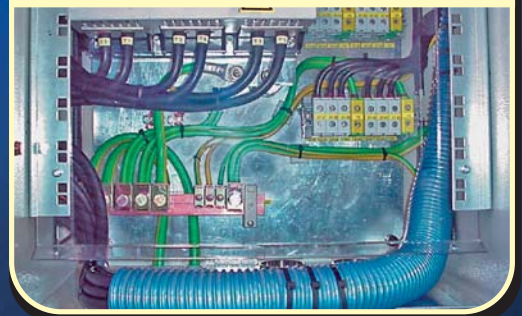
Blackburn®

Power Distribution
Blocks



Thomas & Betts PDS2440B
CE SFS 2663
VDE 0220
Teil 1: 1.1.71
2: 1.1.71
2
Cu 16-95mm² In 490A
Al 16-95mm² In 440A
14Nm
750V T1
Made in ESTONIA
Cu, 230A, 600V
Al, 180A, 600V
AWG 4/0 - 4
126 in·lb 14 Nm
27mm 1.116 in
ecs

Suitable for All Panel Building Applications!



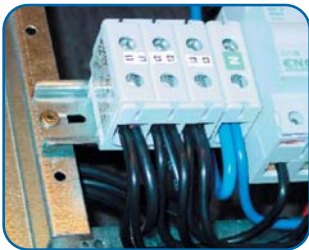
Power Distribution Blocks

Easy and Flexible DIN Rail or Screw Mounting!

Blackburn® Power Distribution Blocks offer a versatile solution for installations ranging from low-voltage switchgear and control gears for industry and construction to building automation. Compatible with both copper and aluminum conductors, they offer quick and easy termination with just one screw. Halogen-free polyamide body construction provides reliable, finger-touch safe insulation for personal safety. Tin-plated aluminum conductive surfaces offer excellent conductivity, and contact surfaces are grooved for better penetration. All terminals come prelubricated with antioxidation compound to resist corrosion. The product family includes both traditional and tapping terminals blocks in a modular system, which may be combined to meet a variety of requirements.

Features:

- Insulated housing provides fast, clean, safe installation and controlled dielectric strength
- Grooved contact surfaces penetrate conductor oxides for best contact
- Easily installed and position-locked with DIN rail or screw mounting
- Three-pole version of traditional terminal block available for three-phase systems
- Tested according to UL1059, Category XCFR2



Blackburn Power Distribution Blocks are suitable for all panel building applications and various terminal enclosure solutions; for extending or branching the cables or changing the conductor type.



Terminal Blocks

Terminal Blocks

- One-pole feedthrough terminal blocks
- Three-pole version (Cat. No. PDS3610) supports three-phase systems
- Designed for connecting or extending both aluminum and copper conductors



Tapping Blocks

Tapping Blocks

- One pole, four identical terminals
- Suitable for extending or branching both aluminum and copper conductors

Specifications for Terminal and Tapping Blocks:

Max. Voltage:	600V
Max. Temperature:	80° C
Flammability Rating:	V-2 (UL94)
Standards & Testing:	UL1059, Category XCFR2, File Number E66436; SFS 2663; VDE 0220, Teil 1/11.71, Teil 2/11.71, SEN 241510, SEN 245012; IEC 61238 class B

Typical Applications:

- Ideal for OEM use in electrical, electronics, panel, switchboard, switchgear, automation and control manufacturing
- Also suitable for industrial/commercial retrofit contractors, installation technicians, maintenance and service providers
- Use in distribution panels, control boxes, automation products, ESS centers and more

Conductor Table

Conductors that can be used with the Power Distribution Blocks — number, cross-section and type

- The requirements of a specific apparatus may restrict the number of conductors.
- Usually a maximum of three adjacent standard cross-sections in one space.
- In general, the conductors connected to one conductor space of a connector must be of the same type.
- Table values require careful installation.
- We recommend use of ferrules when using fine-stranded conductors.
- After installation, check that all conductors are pressed into a connection.
- The nominal current of the power distribution blocks must not be exceeded.
- According to some installation standards, each incoming and outgoing protection and neutral conductor in a panel must have its own separate power distribution blocks.
- The conductor numbers **below** refer only to industrially installed power distribution blocks (internal connections in a panel).

Conductor Table																				
Cat. Number	Cross-sections of conductors (AWG/kcmil) and number of conductors/space The conductor numbers below refer only to industrially installed																Nom. Current (A)	Nominal Insulation Voltage (V)	Torque	
	AWG/kcmil	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500				600
Terminal Blocks																				
PDS610	Al Cu Cu Cu	3	1 1 2	1 1 1	1 1 1	1 1 1	1 1 1											120 150	600	90 Lb.-in.
PDS3610	Al Cu Cu Cu	3	1 1 2	1 1 1	1 1 1	1 1 1	1 1 1											120 150	600	90 Lb.-in.
PDS440	Al Cu Cu Cu	2 3	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2							180 230	600	126 Lb.-in.
PDS2300	Al Cu Cu Cu					1 1 2 3	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2					230 285	600	216 Lb.-in.
PDS30500	Al Cu Cu Cu					2 3	2 3	2 3	2	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	310 380	600	360 Lb.-in.
Tapping Blocks																				
PDS2610	Al Cu Cu Cu	3	1 1 2	1 1 1	1 1 1	1 1 1	1 1 1											120 150	600	90 Lb.-in.
PDS2440	Al Cu Cu Cu	2 3	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2					180 230	600	126 Lb.-in.
PDS22300	Al Cu Cu Cu					1 1 2 3	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2				230 285	600	216 Lb.-in.
PDS230500	Al Cu Cu Cu					2 3	2 3	2 3	2	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	310 380	600	360 Lb.-in.



Power Distribution Blocks

Cat. Number	Wire Range*	Max. Current	Tightening Torque	Allen Hex Socket Head Terminal Screw	Mounting	Overall Dimensions	Color	Std. Pkg. Qty.	UPC Number
Terminal Blocks									
PDS610	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat rail	0.7"W x 1.9"H x 1.7"D	Gray	30	783786-47346
PDS610B	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat rail	0.7"W x 1.9"H x 1.7"D	Blue	30	783786-48040
PDS610G	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat rail	0.7"W x 1.9"H x 1.7"D	Yellow-Green	30	783786-47370
PDS3610	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat rail	1.9"W x 1.9"H x 1.7"D	Gray	30	783786-47376
PDS440	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	0.9"W x 3.4"H x 1.9"D	Gray	30	783786-47371
PDS440B	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	0.9"W x 3.4"H x 1.9"D	Blue	30	783786-48041
PDS440G	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	0.9"W x 3.4"H x 1.9"D	Yellow-Green	30	783786-48042
PDS2300	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	1.2"W x 3.7"H x 2.3"D	Gray	30	783786-47372
PDS2300B	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	1.2"W x 3.7"H x 2.3"D	Blue	30	783786-48043
PDS2300G	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	1.2"W x 3.7"H x 2.3"D	Yellow-Green	30	783786-47373
PDS30500	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	1.5"W x 5.1"H x 2.6"D	Gray	30	783786-47374
PDS30500B	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	1.5"W x 5.1"H x 2.6"D	Blue	30	783786-48044
PDS30500G	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	1.5"W x 5.1"H x 2.6"D	Yellow-Green	30	783786-47375
Tapping Blocks									
PDS2610	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat Rail	1.2"W x 1.9"H x 1.7"D	Gray	30	783786-47377
PDS2610B	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat Rail	1.2"W x 1.9"H x 1.7"D	Blue	30	783786-48045
PDS2610G	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat Rail	1.2"W x 1.9"H x 1.7"D	Yellow-Green	30	783786-47378
PDS2440	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	1.7"W x 3.4"H x 1.9"D	Gray	30	783786-47379
PDS2440B	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	1.7"W x 3.4"H x 1.9"D	Blue	30	783786-48046
PDS2440G	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	1.7"W x 3.4"H x 1.9"D	Yellow-Green	30	783786-47380
PDS22300	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	2"W x 3.7"H x 2.3"D	Gray	30	783786-47381
PDS22300B	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	2"W x 3.7"H x 2.3"D	Blue	30	783786-48047
PDS22300G	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	2"W x 3.7"H x 2.3"D	Yellow-Green	30	783786-47382
PDS230500	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	2.5"W x 5.1"H x 2.6"D	Gray	30	783786-47383
PDS230500B	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	2.5"W x 5.1"H x 2.6"D	Blue	30	783786-48048
PDS230500G	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	2.5"W x 5.1"H x 2.6"D	Yellow-Green	30	783786-47384

www.tnb.com

Thomas & Betts

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