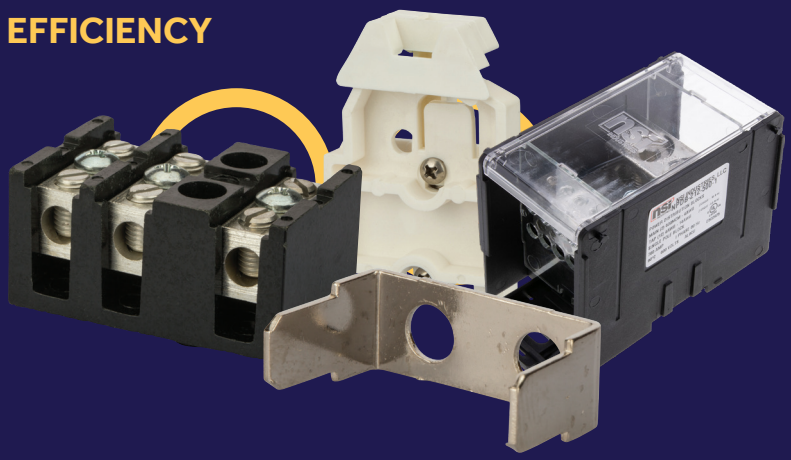
POLARIS®

POWER DISTRIBUTION
Mechanical Connectors

MECHANICAL CONNECTORS

BUILT FOR STRENGTH, RELIABILITY AND EFFICIENCY

Polaris Mechanical Connectors are the easy choice for professionals who need reliable, durable performance. Our comprehensive line of mechanical connectors bring the high standards of Polaris to several new categories, making cost-effective connections that are quick to install and built to last.



A SOLUTION FOR YOUR APPLICATION

Polaris Mechanical Connectors are a simple solution to your connectivity needs, forming secure and robust connections between multiple wires. These highly-conductive, versatile, dual-rated connectors are available in a variety of configurations including aluminum and copper lugs, IPCS, neutral assemblies, terminal blocks, split bolts and distribution blocks. Polaris connectors are built from superior materials and designed to excel in demanding installations.

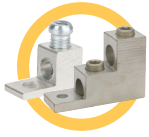
DESIGNED FOR EASY INSTALLATION

Mechanical connectors are a cost-effective and extremely durable choice for a huge range of installations, forming secure joins for multiple wires in a single junction. Each style of connector, from our dual-rated lugs to our reliable distribution blocks, was designed with installers in mind. Work faster without compromising quality when you install Polaris Mechanical.

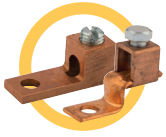
Scan for more information

MULTIPLE CONFIGURATIONS

ALUMINUM CONNECTORS



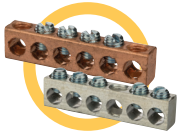
COPPER CONNECTORS



SPLIT BOLT CONNECTORS

INSULATION PIERCING

NEUTRAL ASSEMBLIES

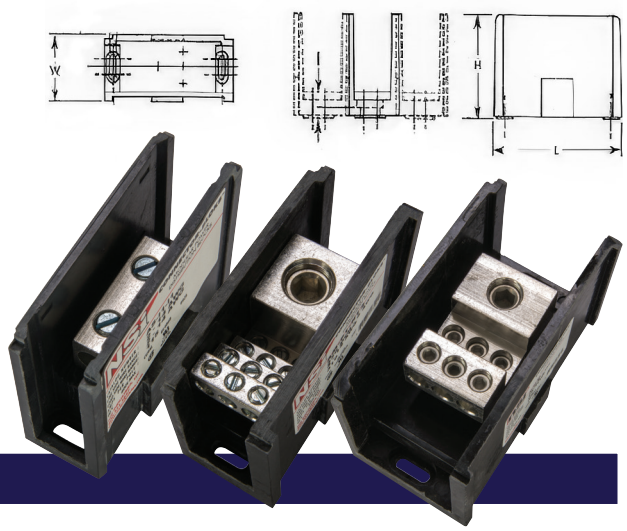


NON-METALLIC CONNECTORS

CONNECTOR BLOKS™
SINGLE PRIMARY | MULTIPLE SECONDARY

FEATURES

- Each block can stand alone or combine to form a multi-block set
- Add as many holes as you need, in any configuration you want
- There are no end pieces or connector pieces to fool around with
- Made from high strength, high conductivity aluminum alloy
- Mounted in a high strength glass-filled polyester base
- Default SCCR Rating 10,000 Amps
- Covers available in 3 sizes and fits all styles and configurations



AS, AM, AL SERIES

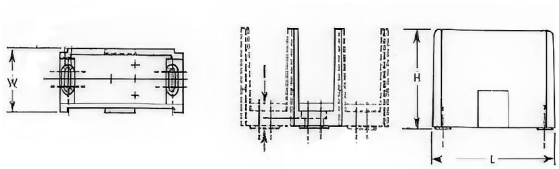
CAT. NO.	DRAWING	PRIMARY LINE SIDE	DRAWING	SECONDARY LOAD SIZE	AMPS PER POLE	LENGTH (L) (IN)	HEIGHT (W) (IN)	WIDTH (H) (IN)	STD. PKG. QTY.	STD. CTN. QTY.
AS-K1-H4	●	2/0-14 AWG	●●●●	4-14 AWG	175	2.900	2.714	1.04	1	3
AS-K1-H6	●	2/0-14 AWG	●●●●	4-14 AWG	175	2.900	2.714	1.04	1	3
AM-P1-H6	●	350MCM-6 AWG	●●●●	4-14 AWG	310	4.000	2.620	1.710	1	3
AM-P1-H12	●	350MCM-6 AWG	●●●●●●	4-14 AWG	310	4.000	2.620	1.710	1	3
AL-P1-K6	●	350MCM-6 AWG	●●●●	2/0-14 AWG	310	5.500	3.250	2.900	1	3
AM-R1-H12	●	500MCM-4 AWG	●●●●●●	4-14 AWG	380	4.000	2.620	1.710	1	3
AL-R1-K6	●	500MCM-4 AWG	●●●●	2/0-14 AWG	380	5.500	3.250	2.900	1	3
AL-R1-M4	●	500MCM-4 AWG	●●	4/0-6 AWG	380	5.500	3.250	2.900	1	3
AL-V1-K6	●	1000-250 MCM	●●●●	2/0-14 AWG	545	5.500	3.250	2.900	1	3

CONNECTOR BLOCK COVERS

CAT. NO.	COMPATABILITY	STD. CTN. QTY.
CS	AS Series	12
CM	AM Series	9
CL	AL Series	6

SPECIFICATIONS

CONNECTOR BLOKS™
MULTIPLE PRIMARY | MULTIPLE SECONDARY



FEATURES

- Compact, versatile and durable
- 90 °C and 600V
- High-impact bases
- One-piece connectors
- No assembly on job site
- Default SCCR Rating 10,000 Amps
- Covers available in 3 sizes and fits all styles and configurations

AS, AM, AL SERIES

CAT. NO.	DRAWING	PRIMARY LINE SIDE	DRAWING	SECONDARY LOAD SIZE	AMPS PER POLE	LENGTH (L) (IN)	HEIGHT (W) (IN)	WIDTH (H) (IN)	STD. PKG. QTY.	STD. CTN. QTY.
AS-K2-H6		2/0-14 AWG		4-14 AWG	350	2.900	2.714	1.040	1	3
AM-K2-H6		2/0-14 AWG		4-14 AWG	350	4.000	2.620	1.710	1	3
AM-K2-H12		2/0-14 AWG		4-14 AWG	350	4.000	2.620	1.710	1	3
AM-K2-I6		2/0-14 AWG		2-14 AWG	350	4.000	2.620	1.710	1	3
AL-P2-H12		350 MCM-6 AWG		4-14 AWG	620	5.500	3.250	2.900	1	3
AL-P2-K6		350 MCM-6 AWG		2/0-14 AWG	620	5.500	3.250	2.900	1	3
AL-R2-H12		500 MCM-4 AWG		4-14 AWG	760	5.500	3.250	2.900	1	3
AL-R2-K6		500 MCM-4 AWG		2/0-14 AWG	760	5.500	3.250	2.900	1	3
AL-R2-M4		500 MCM-4 AWG		4/0-6 AWG	760	5.500	3.250	2.900	1	3

CONNECTOR BLOCK COVERS

CAT. NO.	COMPATABILITY	STD. CTN. QTY.
CS	AS Series	12
CM	AM Series	9
CL	AL Series	6

CONNECTOR BLOKS™
SPLICER REDUCER | PRIMARY SECONDARY

FEATURES

- Compact, versatile and durable
- 90 °C and 600V
- High-impact bases
- One-piece connectors
- No assembly on job site
- Default SCCR Rating 10,000 Amps
- Covers available in 3 sizes and fits all styles and configurations

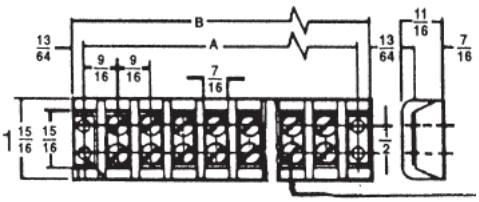
AS, AM, AL SERIES

CAT. NO.	DRAWING	PRIMARY LINE SIDE	DRAWING	SECONDARY LOAD SIZE	AMPS PER POLE	LENGTH (L) (IN)	HEIGHT (W) (IN)	WIDTH (H) (IN)	STD. PKG. QTY.	STD. CTN. QTY.
AS-I1-I1	●	2-14 AWG	●	2-14 AWG	115	2.900	2.714	1.040	1	3
AS-K1-K1	●	2/0-14 AWG	●	2/0-14 AWG	175	2.900	2.714	1.040	1	3
AM-N1-N1	●	250MCM-6 AWG	●	250MCM-6 AWG	310	4.000	2.620	1.710	1	3
AM-P1-P1	●	350MCM-6 AWG	●	350MCM-6 AWG	350	4.000	2.620	1.710	1	3
AM-R1-R1	●	500MCM-4 AWG	●	500MCM-4 AWG	380	4.000	2.620	1.710	1	3
AS-K2-K2	● ●	2/0-14 AWG	● ●	2/0-14 AWG	350	2.900	2.714	1.040	1	3
AL-P2-P2	●●	350MCM-6 AWG	●●	350MCM-6 AWG	620	5.500	3.250	2.900	1	3
AL-R2-R2	●●	500MCM-4 AWG	●●	500MCM-4 AWG	760	5.500	3.250	2.900	1	3

CONNECTOR BLOCK COVERS

CAT. NO.	COMPATABILITY	STD. CTN. QTY.
CS	AS Series	12
CM	AM Series	9
CL	AL Series	6

TERMINAL BLOKS™
DOUBLE ROW 9/16" CENTERS



FEATURES

- Heavy duty construction with corrosion-resistant terminal plates
- Made from strong, glass-filled polyester
- Screws are #8 stud size
- Other sizes and styles available
- Accommodates wire sizes 18-10 AWG

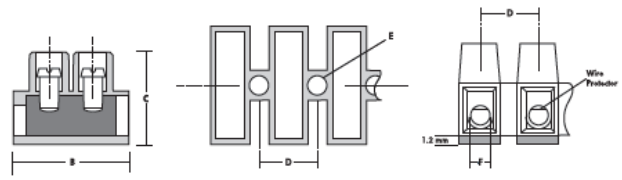
SPECIFICATIONS

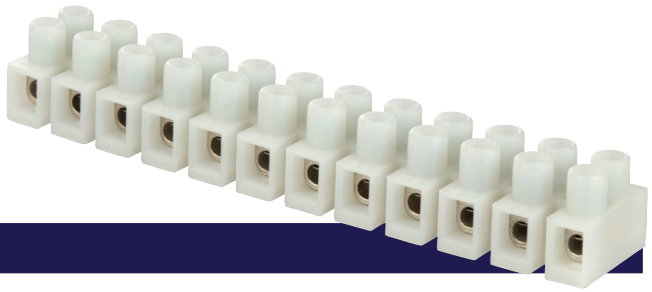
- Temperature Rating: 200 °C
- Voltage: 30AMP, 600V Max

TB SERIES

CAT. NO.	DIMENSIONS		STD. CTN. QTY.
	A	B	
TB3096-2	1.688	2.109	10
TB3096-4	2.812	3.250	10
TB3096-6	3.938	4.375	6
TB3096-8	5.062	5.500	4
TB3096-10	6.203	6.625	4
TB3096-12	7.328	7.750	3
TB3096-14	8.453	8.875	3

TERMINAL BLOKS™
INSULATED TERMINAL BLOKS™





FEATURES

- Nylon 66 housing ensures 'touchproof' safety
- Recessed screws and tubular contacts
- Integrated stainless steel spring wire protectors
- Modular design
- Brass metal alloy, nickel plated terminal insert
- Zinc plated, yellow chromed screws

SPECIFICATIONS

- Rated UL 94V-2
- Temperature Rating: 105 °C
- Voltage: 300V

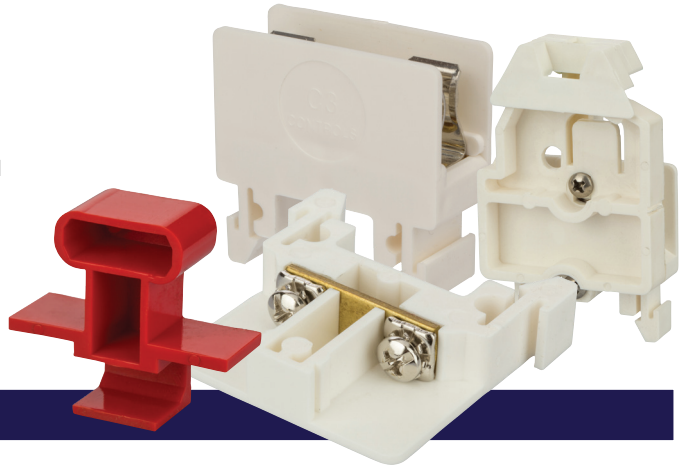
TB SERIES

CAT. NO.	NO. OF CIRCUTS	RATINGS	AMPS	WIRE RANGE	DIMENSIONS						STD. CTN. QTY.
					A	B	C	D	E	F	
ITB20-12	12	RU	20	22-12	3.787	0.669	0.570	0.315	0.114	0.110	50
ITB20-12	12	CSA	10	20-18	3.787	0.669	0.570	0.315	0.114	0.110	50
ITB30-12	12	RU	30	22-10	4.626	0.795	0.670	0.394	0.142	0.134	50
ITB30-12	12	CSA	20	18-14	4.626	0.795	0.670	0.394	0.142	0.134	50
ITB35-12	12	CRU	35	22-10	5.540	0.937	0.748	0.472	0.154	0.154	40
ITB50-12	12	CRU	50	20-8	6.220	1.008	0.992	0.531	0.173	0.189	25

TERMINAL BLOKS™
RAIL MOUNTED MODULAR

FEATURES

- Cost-effective solution to connecting and terminating a wide variety of sizes and styles of wiring
- Individual blocks can easily be inserted or removed without disturbing adjacent blocks
- Insertion is made by snapping the block in place by hand
- Only a screwdriver is needed for removal
- Mounting rail is fastened by screws to the mounting surface
- No special brackets or hardware are needed
- Component pieces may be mixed in an assembly
- Blocks form their own barriers
- Blocks include integral mounting feet with screw slot for direct panel mounting, if desired



SPECIFICATIONS

- UL486A/B Listed, wire connector
- Voltage: 600V Max
- 35mm standard DIN rail

DRT, FTB, DRE, DRJ SERIES

CAT. NO.	TYPE	DESCRIPTION	STD. CTN. QTY.
DRTB25F	25 AMP Terminal Block	Will accept #22 to two #12 wires per terminal and include captive wire clamps for use with stranded or solid wire or ring terminals. Flat top marking with either pen or stick-on labels. Rated 25 Amps, 600 Volts.	50
DRTB50	50 AMP Terminal Block	The DRTB50 block uses a box type connector to accept up to a #8 str. Requires only 3/8" per point, allowing 32 points per foot. Provides 3/8" square marking area. Rated 50 Amps, 600 Volts, 94V-O Rated housing.	25
DRDTB-1	1 Pole Disconnect	The DRD Series of Disconnect Blocks may be used in a single-pole function or linked together with other disconnects to form multiple pole assemblies. Rated 15 Amps per pole. Accepts #22 to two #12 wires per terminal.	10
DRDTB-2	2 Pole Disconnect	Two single-pole disconnects with an interlocked handle so that operation on any pole operates all poles. This unique assembly makes it possible to interlock the isolation of different control panel functions without using expensive relays or cam switches.	6
DRFTB	DRFTB Fuse Block	The DRFTB Fuse Block accepts 13/32" dia. by 11/2" long cartridge fuses through 25 Amps, 600 Volts. The fusible block requires 3/4" rail taking exactly two standard terminal blocks.	10
FTBFP	Fuse Puller	The FTBFB is supplied red as standard.	25
DREB	End Barrier	Each assembly of blocks requires only an end barrier on each end of the assembly. It acts as both the end barrier for the block and retains the blocks on the rail.	50
DRJS2	Jumper	Jumper strap from one point to another on 25 Amp terminal block.	100

CONNECTOR BLOKS™
HARDWARE OPTIONS

FEATURES

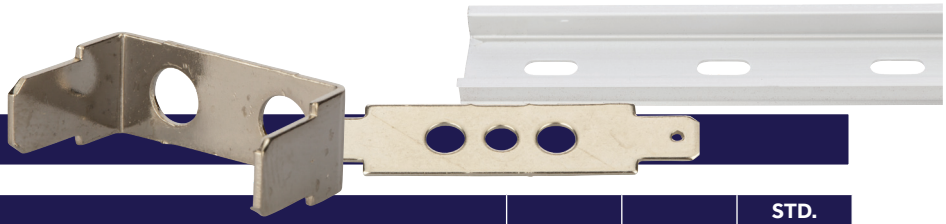
FQC Series
- Nickel plated
- 0.250 x 0.30 tab size
- 22-14AWG wire size

DR Series
- Made from 35mm unplated 6061-T6 Aluminum alloy providing
- for a strong, lightweight rail for mounting
- sockets, terminal blocks or other electro-mechanical devices
- Comes supplied with oval holes 1.1 cm, approximately x 0.4 cm apart
- Standard 10mm height allows for ease of installation vs. traditional 7.5mm height

SPECIFICATIONS

FQC Series
- Voltage: 30AMP., 600V Max

DR Series
- CSA
- UL Recognize



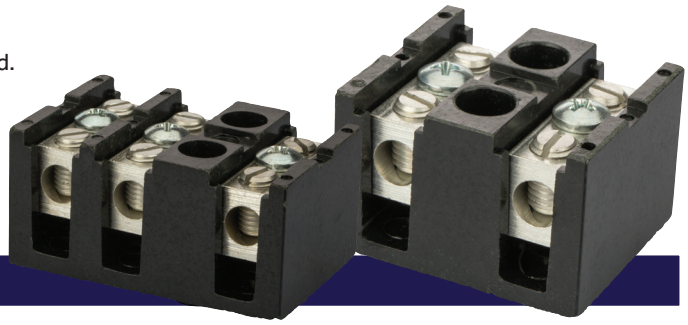
FQC, DR SERIES

CAT. NO.	DESCRIPTION	HEIGHT	LENGTH	STD. CTN. QTY.
FQC-00	Quick Disconnect – 0° Flat	–	–	10
FQC-45	Quick Disconnect – 45° Bend	–	–	10
FQC-90	Quick Disconnect – 90° Bend	–	–	10
J-30	30 AMP Jumper	–	–	10
DR3910	For Mounting Sockets, Terminal Blocks, Or Other Electro-Mechanical Devices	10 mm	39.3”	10

CONNECTOR BLOKS™
SPLICER/REDUCERS 75 AMPS, 600V

FEATURES

- Terminal Bloks™ power terminal blocks are made from high conductivity bodies and will accept either copper or aluminum conductors on the line side.
- The bases are manufactured from high strength phenolic compound.
- 2-14 AWG.



SPECIFICATIONS

- Temperature Rating: 150 °C.
- Voltage: 75AMP, 600V Max.

TBS SERIES

CAT. NO.	NO. OF POLES	WIRE RANGE	LENGTH	HEIGHT	WIDTH	STD. CTN. QTY.
TBS2-2	2	2-14 AWG CU or AL	1.750	1.250	1.500	6
TBS2-3	3	2-14 AWG CU or AL	2.380	1.250	1.500	6

POWER DISTRIBUTION BLOCKS - SCCR RATED

FEATURES

- Modular design for insertion on DIN rail
- Locking mechanism to attach or release block from DIN rail
- Dual-rated AL9CU for use with copper or aluminum conductors
- 90° C, 600V Rated
- Electro-tin plated connectors
- Mountable via DIN rail or through the mounting holes
- Finger-safe IP20 per IEC60529
- For use with standard 35mm DIN rail
- Small PDB overall dimensions: L: 3.55" x W: 1.03" x H: 2.62"
- Medium PDB overall dimensions: L: 5.79" x W: 1.94" x H: 3.74"
- Large PDB overall dimensions: L: 5.80" x W: 1.94" x H: 3.75"
- UL1953 and UL1059 Listed, cULus
- SCCR RMS SYM amps of 100kA rated with AL or CU conductors and proper fusing

NPDB SERIES

PART NUMBER	PRIMARY MAIN OR RUN LINE SIDE	SECONDARY TAP LOAD ZSIDE	NUMBER OF WIRE PORTS BY WIRE RANGE	BLOCK SIZE	MAX. AMP PER POLE	PRIMARY MAX. TORQUE VALUE (IN.LBF)	SECONDARY MAX. TORQUE VALUE (IN.LBF)	PRIMARY STRIP LENGTH (IN)	SECONDARY STRIP LENGTH (IN)
NPDB -11- 2/0 -1	●	●	PDB, 1 POLE, LINE 1 X 2/0 -14, LOAD 1 X 2/0 -14	S	175	120	120	0.500	0.500
NPDB -11- 350 -1	●	●	PDB, 1 POLE, LINE 1 X 350-6, LOAD 1 X 350-6	M	310	375	375	1.000	1.000
NPDB -11- 500 -1	●	●	PDB, 1 POLE, LINE 1 X 500-4, LOAD 1 X 500-4"	M	380	442	442	1.000	1.000
NPDB -11- 600 -1	●	●	PDB, 1 POLE, LINE 1 X 600-4, LOAD 1 X 600-4	M	420	442	442	1.000	1.000
NPDB -11- 750 -1	●	●	PDB, 1 POLE, LINE 1 X 750-250, LOAD 1 X 750-250	L	475	442	442	1.732	1.732
NPDB -14 - 2/0 -1	●	●●	PDB, 1 POLE, LINE 1 X 2/0 -14, LOAD 4 X 4 -14	S	175	120	35	0.500	0.500
NPDB -14 - 500 -1	●	●●	PDB, 1 POLE, LINE 1 X 500-4, LOAD 4 X 4/0 -14	L	380	442	224	1.000	1.000
NPDB -14 - 750 -1	●	●●	PDB, 1 POLE, LINE 1 X 750-250, LOAD 4 X 250-6	L	475	442	442	1.732	1.732
NPDB -16 - 350 -1	●	●●●	PDB, 1 POLE, LINE 1 X 350-6, LOAD 6 X 2/0 -14	L	375	120	310	1.000	0.500
NPDB -16 - 500 -1	●	●●●	PDB, 1 POLE, LINE 1 X 500-4, LOAD 6 X 2/0 -14	L	380	442	120	1.000	0.500
NPDB -16 - 600 -1	●	●●●	PDB, 1 POLE, LINE 1 X 600-4, LOAD 6 X 2/0 -14	L	420	442	40	1.000	0.500
NPDB -112- 500 -1	●	●●●●	PDB, 1 POLE, LINE 1 X 500-4, LOAD 12 X 4 -14	L	380	442	35	1.000	0.500
NPDB -112A- 350 -1	●	●●●●	PDB, 1 POLE, LINE 1 X 350-6, LOAD 12 X 4 -14	M	310	375	35	1.000"	0.500
NPDB -22- 2/0 -1	●●	●●	PDB, 1 POLE, LINE 2 X 2/0 -14, LOAD 2 X 2/0 -14	M	350	120	120	0.500	0.500
NPDB -22- 350 -1	●●	●●	PDB, 1 POLE, LINE 2 X 350-6, LOAD 2 X 350-6	L	620	375	375	1.000	1.000
NPDB -22- 500 -1	●●	●●	PDB, 1 POLE, LINE 2 X 500-4, LOAD 2 X 500-4	L	760	442	442	1.000	1.000
NPDB -22- 600 -1	●●	●●	PDB, 1 POLE, LINE 2 X 600-4, LOAD 2 X 600-4	L	840	442	442	1.000	1.000

NPDB SERIES (CONT')

PART NUMBER	PRIMARY MAIN OR RUN LINE SIDE	SECONDARY TAP LOAD ZSIDE	NUMBER OF WIRE PORTS BY WIRE RANGE	BLOCK SIZE	MAX. AMP PER POLE	PRIMARY MAX. TORQUE VALUE (IN.LBF)	SECONDARY MAX. TORQUE VALUE (IN.LBF)	PRIMARY STRIP LENGTH (IN)	SECONDARY STRIP LENGTH (IN)
NPDB -24- 500 -1			PDB, 1 POLE, LINE 2 X 500-4, LOAD 4 X 4/0-6	L	760	442	224	1.000	1.000
NPDB -24- 600 -1			PDB, 1 POLE, LINE 2 X 600-4, LOAD 4 X 4/0-6	L	840	442	224	1.000	1.000
NPDB -26 - 2/0 -1			PDB, 1 POLE, LINE 2 X 2/0 -14, LOAD 6 X 4-14	M	350	120	40	0.500	0.500
NPDB -26 - 350 -1			PDB, 1 POLE, LINE 2 X 350-6, LOAD 6 X 2/0 -14	L	620	375	120	1.000	0.500
NPDB -26 - 500 -1			PDB, 1 POLE, LINE 2 X 500-4, LOAD 6 X 2/0 -14	L	760	442	35	1.000	0.500
NPDB -26 - 600 -1			PDB, 1 POLE, LINE 2 X 600-4, LOAD 6 X 2/0 -14	L	840	442	35	1.000	0.500
NPDB -212- 350 -1			PDB, 1 POLE, LINE 2 X 350-6, LOAD 12 X 4-14	L	620	375	35	1.000	0.500
NPDB -212- 500 -1			PDB, 1 POLE, LINE 2 X 500-4, LOAD 12 X 4-14	L	760	442	35	1.000	0.500
NPDB -212- 600 -1			PDB, 1 POLE, LINE 2 X 600-4, LOAD 12 X 4-14	L	840	442	35	1.000	0.500

FUSE TABLE

OVERCURRENT PROTECTION, FUSE REQUIRED CLASS	MAXIMUM AMP RATING
Class J	110A
Class T	110A
Class RK1	60A
Class RK5	30A
Class G	60A
Class CC	30A

ADDITIONAL ACCESSORIES

CAT. NO.	DESCRIPTION
CSNPDB	Replacement Cover for Small Block
CMNPDB	Replacement Cover for Medium Block
CLNPDB	Replacement Cover for Large Block
DR3910	35mm DIN Rail Section for PDB and TB mounting

MAKING the CONNECTION

Scan for more information

MECHANICAL CONNECTORS

POL_ConBlks_MCH_ProdSheet
0125

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