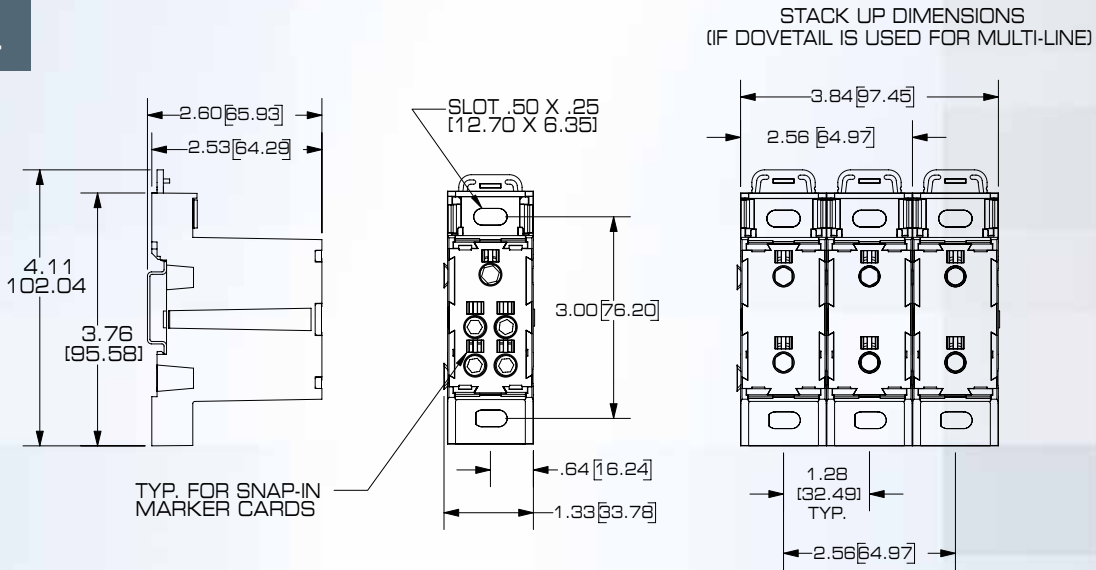
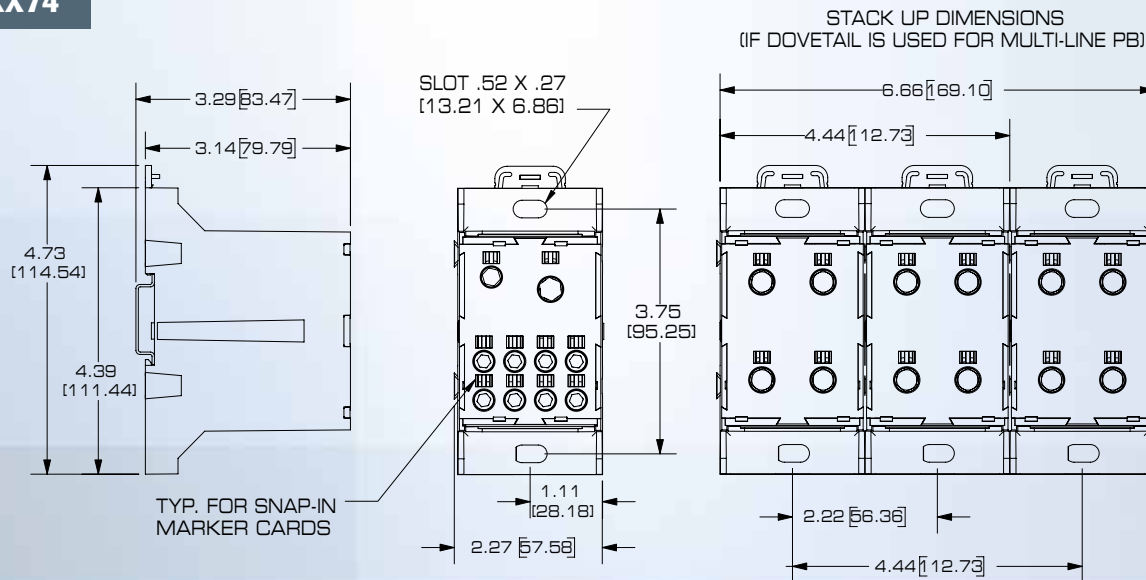


IEC Enclosed Power Block Dimensions

EPBXD41 EPBXD44



EPBXX71 EPBXX74



ISO 9001
A2314



MARATHON
SPECIAL PRODUCTS

Made In U.S.A.



13300 Van Camp Road • P.O. Box 468 • Bowling Green, Ohio 43402
Phone: (419) 352-8441 • Fax: (800) 515-7151 • Website: www.marathonsp.com



IEC Enclosed Power Blocks

Additional Approvals:

- 1 Short Circuit Current Rating UL508A
(provided on product label)
- 2 Flexible Stranded Wire Approval



Unique Solutions for Power Distribution...



Unique For Power

IEC Enclosed Power Blocks

Marathon Special Products has been a quality manufacturer of power blocks for over thirty years. We are proud to announce the expansion of the broadest power block line available with the introduction of **European style (IEC) power blocks**. IEC enclosed power blocks combine proven wire termination methods with the safety of European touch-proof design. These blocks are ideally suited for electrical control panels.

SCCR...

IEC Enclosed Power Blocks (UL File #E62806) are recognized under UL Standard 1059 and have been investigated by UL for Short-Circuit Current Ratings (SCCR) as described in UL Guide Information for category XCFR2; Terminal Blocks-Component.

Flexible Stranded Wire Approval...

Marathon is the first manufacturer of screw-type mechanical pressure wire connectors to have UL approvals for flexible stranded wire. These approvals fulfill the requirements of UL508A (Industrial Control Panels), Section 29.3.11.

Datasheets...

Detailed datasheets for each individual part are available at www.marathonsp.com. These datasheets provide the user with much needed information including wire range, electrical ratings, mechanical ratings, short circuit current ratings (SCCR), agency and wire approvals, accessory information and drawings.

Molding...

The EPB series insulator bases are molded using a gray, glass filled polycarbonate, which provides excellent strength, flexibility, flammability and temperature resistance. This reinforced plastic and dovetailed assembly provides the strongest mechanical construction available. The EPB design follows **IEC 529** requirements of being IP-20 (Finger Safe).

Mounting...

The EPB power block can either be panel mounted or mounted on a 35 mm DIN rail. **Steel roll pins and sliding DIN clips** have been incorporated into the DIN mounting feature (**the roll pins provide anti-rotation and the sliding DIN clip allows for easy assembly to the rail**). This provides reduced panel space for mounting and quick installation.

Gangable...

The molding incorporates a **dual dovetail feature for ganging multiple poles (separate inter-locking pieces not required)**. Reducing inventory is possible by stocking fewer items.

Wire openings...

Designers can choose between one of two terminating options, power distribution or splicer. The wire openings have been designed to be **oversized** per **IEC 60947-7-1** to accept stranded wire and provide an increased **ease of wire insertion**. The wire openings have been tested and approved for both factory and field wiring. **The #2 AWG and #2/0 AWG wire openings are approved and rated for multiple wire combinations. This allows the IEC Enclosed Power Block to be used in a variety of applications.**

Exclusive Features:

- 1 Integral Dovetail Features for Multi-Line Stackup
- 2 Roll Pins and Sliding DIN Clips for Highest Quality Mounting
- 3 Enlarged Openings and Multiple Approvals for Ease of Wire Termination and Flexibility

Accessories:

- 4 White Markers to Identify Connections
- 5 Thermoplastic Safety Plugs for Ability to Maintain Touch Safe Unused Openings

Catalog #	SCCR, RMS SYM Amps 600 Volt Max	Ampacity CU 75°C
EPBXD41	100,000	1
EPBXD44	100,000	1
EPBXD71	10,000	5
EPBXP71	50,000-100,000	5
EPBXD74	10,000	3
EPBXP74	100,000	3

Note: 1) The ampacities are based on...
2) The connectors were tested...
3) See www.marathonsp.com for more information.

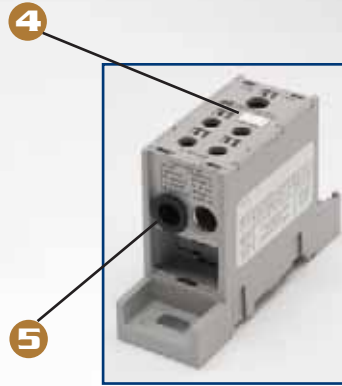
Catalog Description



Connectors:
A – Aluminum
B – Aluminum
C – Copper
D – Copper

ue Solutions

er Distribution...



Specifications...

Electrical

- 600 Volts (UL 1059 Class B and C)
- 690 Volts (IEC)
- Up to 510 Amps
- Wire Range #2/0 to 400 kcmil

Multiple Wire Ratings:

- **Copper Strand Wire Only**
- **#2 opening:**
 - (2) #6 AWG
 - (2) #8 AWG
 - (2 to 4) #10 AWG
 - (2 to 4) #12 AWG
 - (2 to 4) #14 AWG
- **#2/0 opening:**
 - (2) #4 AWG
 - (2) #6 AWG
 - (2) #8 AWG
 - (2) #10 AWG
 - (2) #12 AWG
 - (2) #14 AWG

Mechanical

- Base, Gray Thermoplastic, 125° C (UL RTI)
- Flammability, UL 94 V-0
- Mounting: DIN mount option (panel mount also)

Standards:

- UL Recognized File No. XCFR2.E62806 (UL 1059)
- CSA Certified File No. LR19766 (CSA C22.2 No.158)
- CE (Component IEC 60947-7-1)
- IEC 529, IP-20

Wire Opening Hole Size:

Connector Conductor Opening	Diameter
#2 - #14 AWG	.38"
#2/0 - #14 AWG	.50"
250 kcmil - #6 AWG	.72"
400 kcmil - #6 AWG	.94"

Temperature Rating Wire Size °C	Line Connector Configuration	Line Wire Range	Openings Per Pole	Load Connector Configuration	Load Wire Range	Openings Per Pole
75		2/0 - #14 AWG 70 - 2.5 mm ²	1		2/0 - #14 AWG 70 - 2.5 mm ²	1
75		2/0 - #14 AWG 70 - 2.5 mm ²	1		#2 - #14 AWG 35 - 2.5 mm ²	4
100		250 kcmil - #6 AWG 120 - 16 mm ²	2		250 kcmil - #6 AWG 120 - 16 mm ²	2
135		400 kcmil - #6 AWG 185 - 16 mm ² 2/0 - #14 AWG 70 - 2.5 mm ²	1 1		#2 - #14 AWG 35 - 2.5 mm ²	8

on Table 310-16 of the NEC .
and approved per UL 486 A/B.
for detailed SCCR information.

tion...

Material

um
copper or
um wire
er rated
r wire only

D - Mount on 35 mm
DIN rail or
flat panel
P - Flat panel
(for 71 and 74)

41 - (1) #2/0 to (1) #2/0
44 - (1) #2/0 to (4) #2
71 - (2) #250 to (2) #250
74 - (1) #400 & (1) #2/0 to (8) #2



Pictures left to right: EPBAD71, EPBAD74, EPBAD41, EPBAD44