

BC Series Terminal Blocks

for Power and Signal
Distribution in Hazardous Areas



- feedthrough and disconnect terminals and a fuse holder*
- combifoot for mounting on 15mm, 32mm and 35mm DIN rails
- accepts Weidmuller Multicard marking tags
- complete offering of accessories

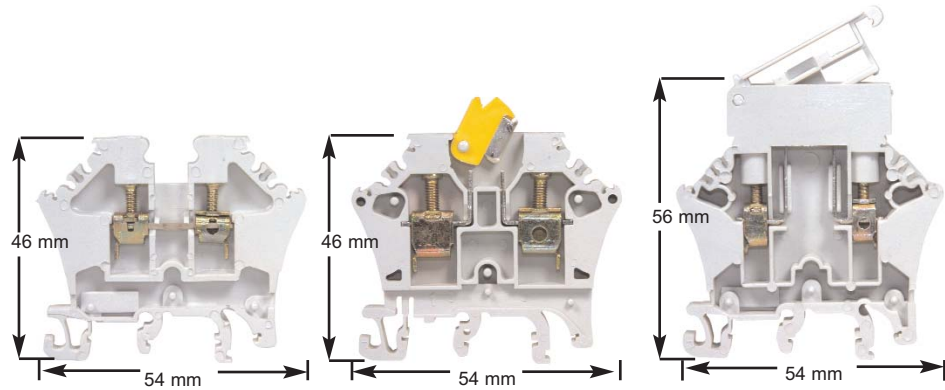
Emphatec has partnered with Unibloc to offer a small selection of terminal blocks. These are intended as accessories to Emphatec's DC power supplies but are also suited for general purpose use as well as Class 1 Division 2 applications. The BC2.5/4 is a 5mm wide feedthrough terminal while the BC4S is a 6mm wide lever disconnect terminal. The BC5F is a 5x20mm fuse holder* and is 8mm wide. All three terminals accept Weidmuller's

Dekafix and Multicard marking tags. Accessories such as partitions and jumper combs are available. The combifoot design allows a single terminal to be used on any of the commonly available DIN rails – 15mm, 32mm, 35x7.5mm and 35x15mm.

For Class 1 Division 2 applications the terminals have been tested for temperature rise and pull-out. The pull-

out tests are not only for the wire terminations but are also performed on the fuse lever. The lever must withstand a force of 15N to ensure it cannot be accidentally operated while under load and cause an arc. Generally only screw-in style fuse terminals would meet this requirement but the BC5F passes easily.

SPECIFICATIONS



| | BC2.5/4 Feedthrough | BC4S Disconnect | BC5F Fuse Holder |
|--|--|---|---|
| Catalog Number (standard package quantity) | | | |
| Grey | 330016 (100) | 330018 (100) | 330017 (50) |
| Red | 330087 (100) | 330090 (100) | 330085* (50) |
| Black | 330086 (100) | | |
| Dimensions | | | |
| Width† mm | 5 | 6 | 8 |
| Length mm | 54 | 54 | 54 |
| Height on 32mm rail mm | 52.7 | 52.7 | 62.7 |
| Height on 35x7.5mm rail mm | 47.8 | 47.8 | 47.8 |
| Height on 35x15mm rail mm | 55.3 | 55.3 | 65.3 |
| Height on 15mm rail mm | 46.5 | 46.5 | 56.5 |
| Terminations | | | |
| Wire size AWG / mm ² | 20-12 / 0.5-4 | 20-10 / 0.5-6 | 20-8 / 0.5-10 |
| Stripping length mm | 10 | 12 | 6 |
| Tightening torque Nm / in-lb | 0.4 / 4 | 0.6 / 5 | 0.4 / 3.5 |
| Ratings | | | |
| Voltage V | 600 | 300 | 300 |
| Current A | 20 | 10 | 10 |
| | CSA C22.2 No. 39-M1987 - Fuseholder Assemblies CSA C22.2 No. 158-1987 - Terminal Blocks CSA C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Class 1 Division 2 Hazardous Locations | | |
| Materials | | | |
| Housing | BASF Ultramid or LATI Latamid | | |
| Flammability | UL94 – V0 (grey versions) | | |
| Screws / clamps | Steel, yellow chromate plated | | |
| Current bar | Tin plated copper | | |
| Disconnect | N/A | Tin plated copper | N/A |
| Disconnect / fuse clips | N/A | Tin plated copper | |
| Accessories (standard package quantity) | | | |
| Endplate, 1.6mm with grey | 330019 (20) | | |
| Insulated jumper comb - | Consult factory | 2 pole: 330028 (10) 3 pole: 330029 (10) 5 pole: 330030 (10) 10 pole: 330031 (10) | 2 pole: 330024 (10) 3 pole: 330025 (10) 5 pole: 330026 (10) 10 pole: 330027 (10) |
| Cross-connection (top mounted) | 2 pole: 330020 (10) 3 pole: 330021 (10) 5 pole: 330022 (10) 10 pole: 330023 (10) | N/A | |
| End Bracket- 32mm rail | Consult factory | | |
| End bracket – 35mm rail | 330089 (20) | | |
| Marking tags | Consult factory | | |

Ground (PE) Terminal:
6.5mm wide, 54mm length, 55.3mm height on 35mm DIN rail
20-10AWG, 0.6Nm / 5 in-lb torque
Standard pack quantity: 50
Catalog number: 330084

* Only lever is red, body is grey.
† Tolerance of width is +0.1mm, -0mm