

Miniature Circuit Breakers

1, 2, 3 and 4pole series up to 125AF [IEC 60898, IEC 60947-2]



| Type | MCB | | | | | |
|---------------------------------------|---|-------------------|---|-------------------|---|-------------------|
| | BKN | BKN-c | BKN-b | | BS32c | BS32d |
| Protection | Overload and short circuit | | Overload and short circuit | | Overload and short circuit | |
| Rated current | 1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A | | 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A | | 6, 10, 15, 20, 30A | 10, 15, 20, 30A |
| Characteristic | B, C, D curve | | B, C, curve | | - | - |
| Poles | 1P, 1P+N, 2P, 3P, 3P+N, 4P | | 1P, 2P, 3P, 4P | | - | - |
| Breaking capacity | 1pole | | 1pole | | 2pole | |
| | 1A ~ 63A 6kA at 230/400VAC (NF: 4.5kA) | | 2~4pole 1A ~ 63A 6kA at 400VAC | | 1.5kA | 2.5kA |
| Standard | IEC 60898 | | IEC 60898, IEC 60947-2 | | IEC 60898, KS | |
| Approval | CCC, SABS, SEMKO CB | | SEMKO CB | | CCC | - |
| Type of trip | Thermal magnetic release | | Thermal magnetic release | | - | - |
| Endurance | 4,000 operations | | 4,000 operations | | 4,000 operations | |
| | Electrical | 10,000 operations | | 10,000 operations | | 10,000 operations |
| Mechanical | 10,000 operations | | 10,000 operations | | 10,000 operations | |
| Mount | On 35mm DIN rail | | On 35mm DIN rail | | DIN rail / Screw | |
| Width | 17.8mm per pole | | 17.8mm per pole | | 33mm per pole | |
| Terminal | Lug type (Cable up to 25mm ²) | | Dual type (Lug & Screw) | | Lug type (Cable up to 25mm ²) | |
| Auxiliary switch, AX & AL Optional | 1 changeover contact 6A at 240VAC, 3A at 415VAC (AX) 6A at 230VAC, 3A at 415VAC (AL) 2A at 48VDC, 1A at 125VDC Lug terminal Cable capacity 2.5mm ² 9mm wide *Only for BKN | | 1 changeover contact 6A at 240VAC, 3A at 415VAC (AX/ AL) 6A at 24VDC, 2A at 48VDC, 1A at 130VDC Lug terminal Cable capacity 0.75~2.5mm ² 8.8mm wide | | | |
| | | | | | | |
| Dimension | | | | | | |
| Characteristic curve | See page 45 | | See page 45 | | - | |
| Remarks | - | | - | | - | |

* NF : Breaking capacity 6kA



| MCB | | | | | | | |
|---|------------------------------|---|--|---|--|----------------------------|--------------------------|
| BKH | | BKP | | BF-a | BF-c | BFN | |
| Overload and short circuit | | Overload and short circuit | | Overload and short circuit | | Overload and short circuit | |
| 63, 80, 100, 125A | | 3, 6, 10, 16, 20, 25, 32A | | 10~100A | | 5, 10, 15, 20, 30, 40, 50A | |
| C, D curve | | B, C, D curve | | - | | - | |
| 1P, 2P, 3P, 3P+N, 4P | | 1P+N | | 1p, 2p, 3p | | 1p, 2p, 3p | |
| 1pole | 2~4pole | - | | - | | 1pole | 2~3pole |
| 63A ~ 125A 10kA at 230VAC | 63A ~ 125A 10kA at 400VAC | 3A ~ 32A 4.5kA at 230VAC (NF: 3kA) | | 10A~100A 10kA at 240VAC 2.5kA at 415VAC | 10A~100A 5kA at 240VAC 2.5kA at 415VAC | 5A~50A 10kA at 230VAC | 5A~50A 10kA at 400VAC |
| IEC 60947-2 | | IEC 60898 | | IEC 60947-2 | | IEC 60947-2 | |
| CCC, SEMKO CB, SABS, CE | | CCC, SEMKO CB, NF, SABS, CE | | - | | SEMKO CB, CE | |
| Thermal magnetic release | | Thermal magnetic release | | Thermal magnetic release | | Thermal magnetic release | |
| 1,500 operations | | 4,000 operations | | 1,500 operations | | 1,500 operations | |
| 10,000 operations | | 10,000 operations | | 10,000 operations | | 10,000 operations | |
| On 35mm DIN rail | | On 35mm DIN rail | | Holder mounting (Bolt on with fixing brackets) | | Plug-in | |
| 27mm per pole | | 17.8mm | | 25mm per pole | | 25mm per pole | |
| Lug type (Cable up to 50mm ²) | | Lug type (Cable up to 10mm ²) | | Clamp type | | Lug type (14-6 AWG.) | |
| | | | | | | | |
| See page 45 IEC 60947-2 (SABS) | | See page 45 - | | See page 46 - | | See page 47 - | |