



**DATA SHEET FOR 1 POLE STARBREAKER MCBs
B AND C CURVES**



LIST No

| Type B | Type C |
|--------|--------|
| 61/B06 | 61/C06 |
| 61/B10 | 61/C10 |
| 61/B16 | 61/C16 |
| 61/B20 | 61/C20 |
| 61/B32 | 61/C32 |
| 61/B40 | 61/C40 |
| 61/B50 | 61/C50 |

| | | | |
|---|------------------------|------------------|--|
| Standards | BS EN 60898, IEC 60898 | | |
| Tripping characteristic | B, C | | |
| Rated voltages U_n | 230/400 | | |
| Operational voltage | min. | V AC/DC | 24 |
| | max. | V DC/pole | 60 |
| | max. | V AC | 250 |
| Rated short circuit capacity I_{cn} | | kA AC | 6 |
| Insulation coordination | | | |
| • Rated insulation voltage | | V AC | 250 |
| • Degree of pollution for overvoltage category | 2/III | | |
| Touch protection acc. to EN50274 | Yes | | |
| Handle end position, sealable | Yes | | |
| Degree of protection acc. to EN60529 | IP20 | | |
| CFC and silicone-free | Yes | | |
| Terminals | | | |
| • Terminal tightening torque | | Nm | 2.5 ... 3 |
| Conductor cross-sections | | | |
| • Solid and stranded | | mm ² | 0.75 ... 25 |
| • Finely stranded, with end sleeve | | mm ² | 0.75 ... 25 |
| Mounting position | Any | | |
| Service life on average, with rated load | 20000 actuations | | |
| Ambient temperature | | °C | -25...+45, occasionally +55, max. 95% humidity, storage temperature: -40...+75 |
| Resistance to climate acc. to IEC60068-2-30 | | | |
| Resistance to vibrations acc. to IEC60068-2-6 | | m/s ² | |

TECHNICAL

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**EARTH FAULT LOOP IMPEDANCES (Z_s OHMS) TO GIVE COMPLIANCE WITH BS7671
REGULATION 411.3.2.2 AND 411.3.2.3 AT 230V**

Maximum earth fault loop impedance in ohms for instantaneous operation of devices giving compliance with the 0.4 second disconnection time of Regulation 411.3.2.2 and 5 second disconnection time of regulation 411.3.2.3

| CURVE | BS EN | 6A | 10A | 16A | 20A | 32A | 40A | 50A |
|--------------|--------------|-----------|------------|------------|------------|------------|------------|------------|
| B | 60898 | 7.666 | 4.599 | 2.874 | 2.299 | 1.439 | 1.149 | 0.919 |
| C | 60898 | 3.829 | 2.299 | 1.439 | 1.149 | 0.719 | 0.569 | 0.459 |

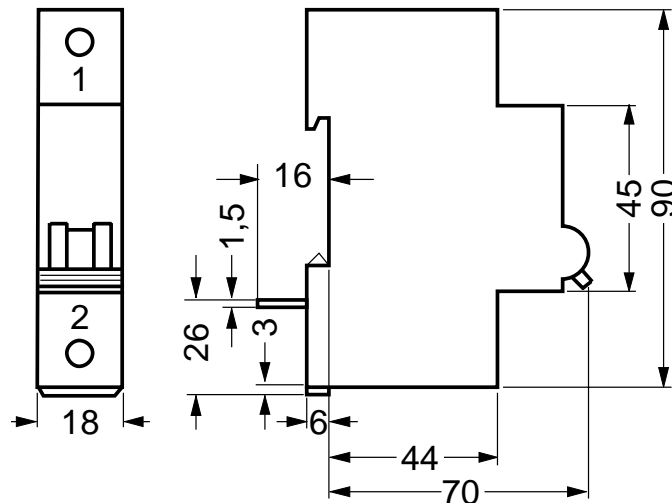
The values in this table should be modified to allow for the cable temperature at the time of test

I²t ENERGY LET-THROUGH

Typical values of I²t energy let-through for Starbreaker MCBs are given in the taable below:

| CURVE | BS EN | 6A | 10A | 16A | 20A | 32A | 40A | 50A |
|--------------|--------------|-----------|------------|------------|------------|------------|------------|------------|
| B | 60898 | 10,220 | 17,900 | 22,260 | 22,260 | 31,760 | 31,760 | 45,160 |
| C | 60898 | 14,890 | 18,750 | 23,820 | 32,470 | 32,470 | 32,470 | 44,270 |

Prospective short circuit test current 6000A



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