

**Technical Information**
**NH 10kA MCBs**

**Overview:**
**Devices (MCBs)**

- 10kA Fault Rating
- 6A – 63A Current Range
- Single, Double & Triple Pole Variants
- Type B, C & D Characteristics

**Features:**

- 18mm wide modules
- Suitable for use within NH Distribution Boards
- Compliant with BS EN 60898 and EN 60947-2

**Part No.s:**

<b>Single Pole</b>			
<b>Current Rating</b>	<b>Type B</b>	<b>Type C</b>	<b>Type D</b>
6A	PSB06-B	PSB06-C	PSB06-D
10A	PSB10-B	PSB10-C	PSB10-D
16A	PSB16-B	PSB16-C	PSB16-D
20A	PSB20-B	PSB20-C	PSB20-D
32A	PSB32-B	PSB32-C	PSB32-D
40A	PSB40-B	PSB40-C	PSB40-D
50A	PSB50-B	PSB50-C	PSB50-D
63A	PSB63-B	PSB63-C	PSB63-D

<b>Double Pole</b>			
<b>Current Rating</b>	<b>Type B</b>	<b>Type C</b>	<b>Type D</b>
6A	PSB206-B	PSB206-C	PSB206-D
10A	PSB210-B	PSB210-C	PSB210-D
16A	PSB216-B	PSB216-C	PSB216-D
20A	PSB220-B	PSB220-C	PSB220-D
32A	PSB232-B	PSB232-C	PSB232-D
40A	PSB240-B	PSB240-C	PSB240-D
50A	PSB250-B	PSB250-C	PSB250-D
63A	PSB263-B	PSB263-C	PSB263-D

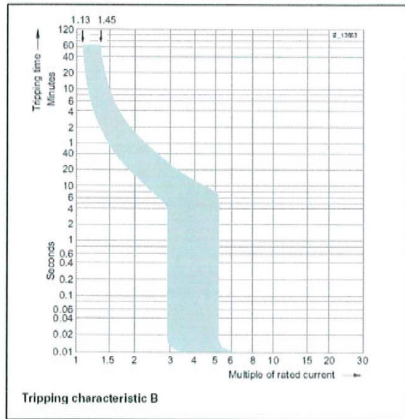
<b>Triple Pole</b>			
<b>Current Rating</b>	<b>Type B</b>	<b>Type C</b>	<b>Type D</b>
6A	PSB306-B	PSB306-C	PSB306-D
10A	PSB310-B	PSB310-C	PSB310-D
16A	PSB316-B	PSB316-C	PSB316-D
20A	PSB320-B	PSB320-C	PSB320-D
32A	PSB332-B	PSB332-C	PSB332-D
40A	PSB340-B	PSB340-C	PSB340-D
50A	PSB350-B	PSB350-C	PSB350-D
63A	PSB363-B	PSB363-C	PSB363-D

**Technical Specification:**

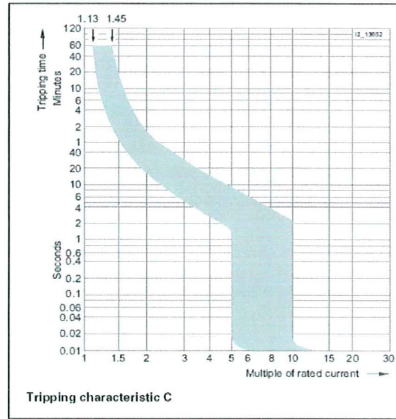
<b>Standards Approved acc. to</b>		BS EN 60898 & IEC/EN 60947-2
<b>Operational Voltage</b>	min V AC/DC	24
Acc. To EN 60898 & EN 60947-2	max V DC/pole	*60
	max V AC	440
Acc. To UL1077 & CSA C22.2 No. 235	Max V AC	
	Max V DC/pole	60
<b>Rated Switching Capacity</b>		
• Icn acc. To IEC/EN 6089801	kA AC	10
• Icn acc. To IEC/EN 6089801	kA DC	
• Icn acc. To IEC/EN 6089801	kA AC	15
• Acc. To UL 1077 & CSA22.2	kA AC	5
<b>Insulation Coordination</b>		
• Rated Insulation voltage	V AC	250 / 440
• Degree of pollution for overvoltage category		3 / III
<b>Touch Protection</b> to EN 50274-1		Yes
<b>Degree of Protection</b> acc. to EN 60529		IP20 with connected conductors
<b>CFC and Silicone Free</b>		Yes
<b>Mounting</b>		
• Snap on fixing system		Yes
• Standard mounting rail and screw connection		Yes
<b>Terminals</b>		
• Tunnel terminals at both ends		Yes
• Combined terminals at both ends		Yes
• Terminal connection solid, stranded or finely stranded with ferrule		0.75...0.25
• Terminal tightening torque	Nm	2.5...3
<b>Conductor Cross Sections</b>		
• Solid and stranded, top and bottom terminal	mm <sup>2</sup>	0.75...35
• Finely stranded, with end sleeve, top and bottom terminal	mm <sup>2</sup>	0.75...25
<b>Mains Connection</b>		Any
<b>Mounting Position</b>		Any
<b>Service life on average, with rated load</b>		20,000 operations (6A to 32A); 10,000operations (40A to 63A)
<b>Ambient Temperature</b>	°C	-25...+45, occasionally +55, max, 95% humidity, storage temperature: -40...+75
<b>Resistance to Climate</b> Acc. to IEC 60068-2-30		6 cycles
<b>Resistance to Vibrations</b> Acc to IEC 60068-2-6	m/s <sup>2</sup>	60 at 10Hz...150Hz

\* The operational voltage 60V DC/pole takes into account a battery charging voltage with peak value of 72V

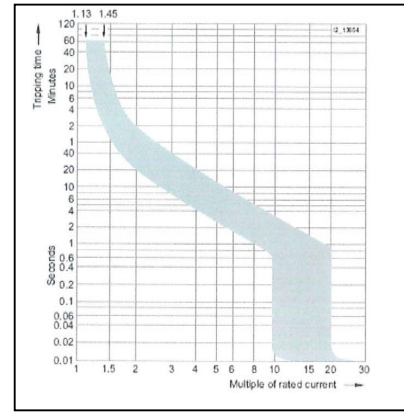
**Trip Curves:**



**B Curve:** For universal use in socket outlet lighting circuits

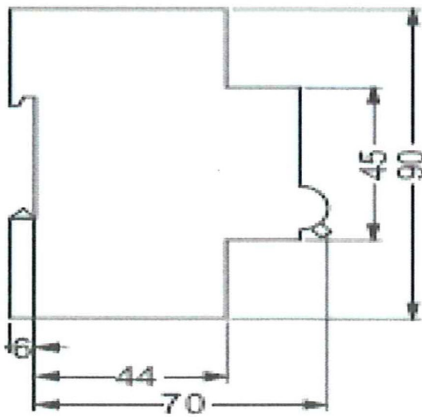


**C Curve:** Advantageous in lighting and motor circuits with higher starting currents



**D Curve:** Advantageous in circuits with highly inductive loads

**Dimensions:**



SP device = 18mm Wide  
TP device = 54mm Wide

**Earth Loop Impedance Values:**

Earth fault loop impedances ( $Z_s$ ohms) to give compliance with BS7671 regulations 411.3.2.2 & 411.3.2.3 at 230V			
Device Rating	Maximum earth fault loop impedance (Ohms)		
	Type B	Type C	Type D
6A	7.666	3.832	1.917
10A	4.599	2.299	1.150
16A	2.874	1.437	0.719
20A	2.299	1.149	0.575
25A	1.839	0.919	0.460
32A	1.437	0.718	0.359
40A	1.149	0.574	0.288
50A	0.919	0.459	0.230
63A	0.729	0.364	0.183

**Further Information:**

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 Wylex Technical: 01543 438320  
 Website: [www.electrium.co.uk](http://www.electrium.co.uk)