

# Product Data Sheet



Product Code:	Issue No.	Issue Date:	Issue by:
<b>6MBRSPK-32MBRSPK</b>	<b>E</b>	<b>16.06.15</b>	<b>S.H.</b>

Description

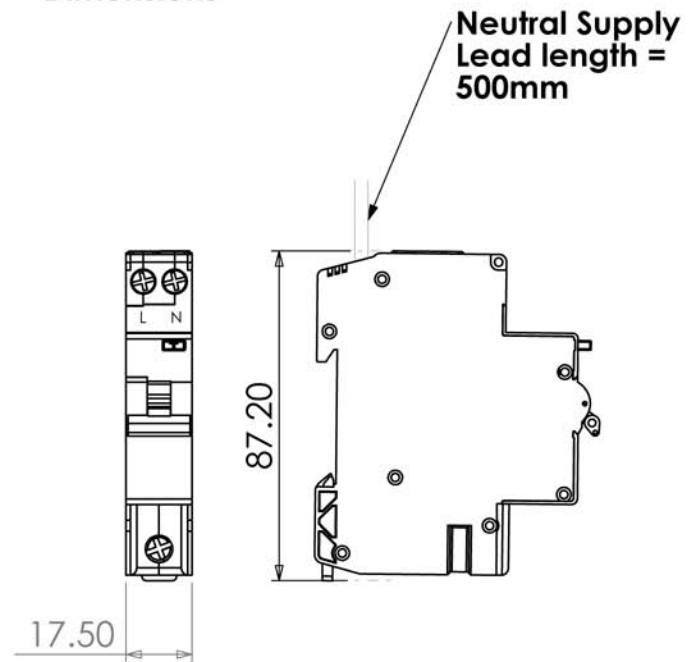
**Single Module Compact RCBO Type B 6kA**

## General Characteristics

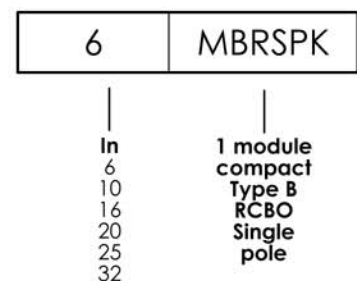
Standards	BSEN61009
Current ratings (In)	6, 10, 16, 20, 25, 32 & 40*
Voltage rating (Ue)	230V a.c.
Earth Fault Sensitivity (Idn)	30mA
Frequency	50Hz
Type (overcurrent)	B (3-5xIn)
Type (Earth fault sensitivity)	AC
Enclosure material	Flame Retardent PA
Colour	Light Grey - RAL7035
IP Rating	IP20
Cable Entry Facility	Box Terminals
No of Modules	1
No. of Poles	1 (Switched Live phase + solid Neutral)
Short Circuit rating (kA)	6kA *40A 4.5kA
Terminal capacity (In)	25mm <sup>2</sup>
Terminal capacity (Out)	16mm <sup>2</sup>
Busbar connectivity	upto 2mm thick forked copper busbar
Terminal Tightening Torque	2 - 2.5Nm (In) 1 - 1.5Nm (Out)
Calibration Temperature	30C
Operating temperature	-5C to +55C



## Dimensions



## Product coding



Earth Fault Current	Trip time limit (typical measured value)
0.5 x Idn	No Trip
1 x Idn	<300ms (nominally <40ms)
5 x Idn	<40ms (nominally <40ms)
	Actual Trip Threshold (mA)
Idn = 30mA	20 - 25mA

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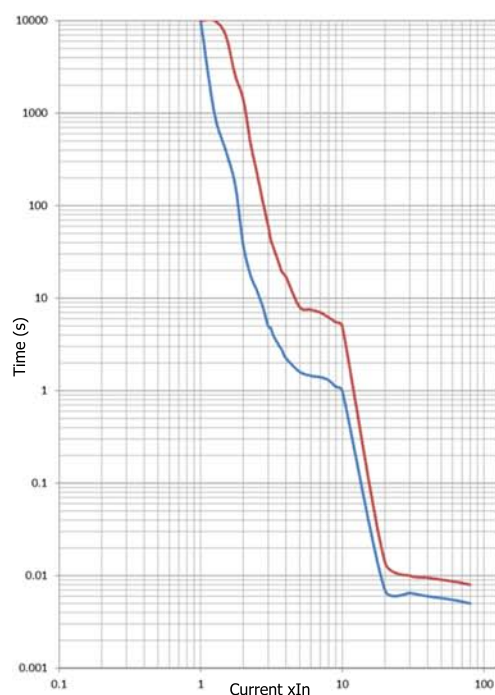


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## Thermal/Magnetic Tripping characteristic



Type AC means tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising.

Test facility provided checks the electronic detection and mechanical tripping of the device - must be operated regularly.

This RCBO is suitable for use as an isolation device and can be locked in either OFF or ON position. However when locked in the ON state the device can still trip, therefore continue to provide earth fault protection

## Earth Fault Loop Impedance Zs max at 218.5V - (230v x 0.95 Cmin)

(In)	Max Zs (@0.4sec)	Max Zs (@5sec)
6	<b>7.28</b>	<b>8.09</b>
10	<b>4.37</b>	<b>4.86</b>
16	<b>2.73</b>	<b>3.03</b>
20	<b>2.19</b>	<b>2.43</b>
25	<b>1.75</b>	<b>1.94</b>
32	<b>1.37</b>	<b>1.52</b>

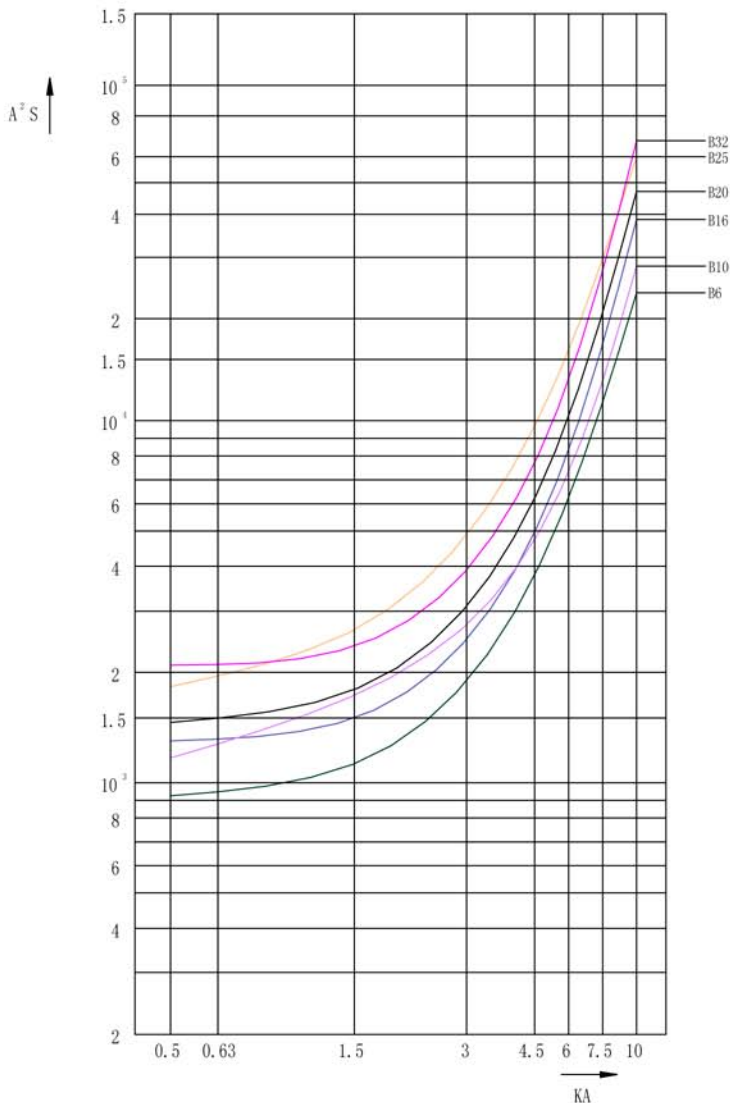
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## Operating Characteristics

### I<sup>2</sup>t Characteristics



### I<sup>2</sup>t Table

Rating	Max I <sup>2</sup> t (kA <sup>2</sup> s)			
	503A	1.51kA	4.66kA	6.10kA
6A	0.46	1.88	4.26	15.7
10A	0.59	1.93	5.66	6.83
16A	0.83	2.86	10.9	24.6
20A	0.84	3.97	8.74	60.1
25A	1.03	3.66	14.8	106
32A	1.03	4.21	21.5	32

### I<sub>peak</sub> Curve

Rating	Peak Current (kA)			
	503A	1.51kA	4.66kA	6.10kA
6A	0.54	1.18	1.94	2.29
10A	0.57	1.19	1.78	1.95
16A	0.62	1.37	2.51	2.57
20A	0.63	1.19	2.66	3.84
25A	0.66	1.5	2.82	5.14
32A	0.66	1.55	2.83	3.46