

# MPCBs MPX<sup>3</sup>

## technical characteristics

<b>MPCB</b>	<b>MPX<sup>3</sup> 32S</b>	<b>MPX<sup>3</sup> 32H</b>	<b>MPX<sup>3</sup> 32MA</b>	<b>MPX<sup>3</sup> 63H</b>	<b>MPX<sup>3</sup> 100H</b>																													
<b>Size</b>	1	2	2	3	4																													
<b>Type</b>	Thermal magnetic	Thermal magnetic	Magnetic only	Thermal magnetic	Thermal magnetic																													
<b>Breaking capacity</b>	Standard	High	High	High	High																													
<b>Handle type</b>	Toggle	Rotary	Rotary	Rotary	Rotary																													
<b>Number of poles</b>	3	3	3	3	3																													
<b>Characteristics of use</b>																																		
<b>Rated operational voltage (Ue)</b>	Up to 690 V	Up to 690 V	Up to 690 V	Up to 690 V	Up to 690 V																													
<b>Rated frequency</b>	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz																													
<b>Rated insulation voltage (Ui)</b>	690 V	690 V	690 V	1000 V	1000 V																													
<b>Rated impulse voltage (Uimp)</b>	6 kV	6 kV	6 kV	8 kV	8 kV																													
<b>Utilisation category</b>	Cat. A	Cat. A	Cat. A	Cat. A	Cat. A																													
<b>IEC 60947-2 (breaker)</b>	Cat. A	Cat. A	Cat. A	Cat. A	Cat. A																													
<b>IEC 60947-4 (Motor starter)</b>	AC3	AC3	AC3	AC3	AC3																													
<b>Mechanical endurance (Operating)</b>	100000	100000	100000	50000	50000																													
<b>Electric endurance (Cycles)</b>	100000	100000	100000	25000	25000																													
<b>Max operating frequency per hour (Ope./h)</b>	25	25	25	25	25																													
<b>Temperature compensation</b>	-20 to +60°C	-20 to +60°C	-20 to +60°C	-20 to +60°C	-20 to +60°C																													
<b>Instantaneous short circuit release</b>	13 x Ie max.	13 x Ie max.	13 x Ie max.	13 x Ie max.	13 x Ie max.																													
<b>Trip class</b>	10	10	0	10	10																													
<b>Overload protection</b>	•	•	-	•	•																													
<b>Phase failure protection</b>	•	•	-	•	•																													
<b>Trip indicating function</b>	with alarm contact 4 174 06/07	with alarm contact 4 174 06/07	with alarm contact 4 174 06/07	with alarm contact 4 174 06/07	with alarm contact 4 174 06/07																													
<b>Test function</b>	•	•	•	•	•																													
<b>Weight (g)</b>	320	360	360	1000	2200																													
<b>Rated breaking capacity (kA)</b>	240V 230V 220V		415V 400V		460V 440V		525V 500V		690V 600V		240V 230V 220V		415V 400V		460V 440V		525V 500V		690V 600V		240V 230V 220V		415V 400V		460V 440V		525V 500V		690V 600V					
<b>Rated operational current Ie (A)</b>	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics		
<b>Thermal release adjustment range (A)</b>																																		
0.16	0.1 to 0.16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0.25	0.16 to 0.25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0.4	0.25 to 0.4	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0.63	0.4 to 0.63	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1	0.63 to 1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1.6	1 to 1.6	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2.5	1.6 to 2.5	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4	2.5 to 4	100	100	100	100	100	100	100	100	50	38	15	11	3	3	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6	4 to 6	100	100	100	100	100	100	15	11	10	8	3	3	100	100	100	100	100	100	100	100	100	100	6	6	-	-	-	-	-	-	-	-	
8	5 to 8	100	100	100	100	15	11	10	8	3	3	100	100	100	100	50	38	50	38	6	6	-	-	-	-	-	-	-	-	-	-	-	-	
10	6 to 10	100	100	50	38	15	11	6	5	3	3	100	100	100	100	50	38	50	38	6	6	100	100	100	100	100	100	100	100	100	100	100	100	
13	9 to 13	100	100	50	38	10	8	6	5	3	3	100	100	100	100	50	38	42	32	6	6	100	100	100	100	100	100	100	100	100	100	100	100	
17	11 to 17	50	38	20	15	10	8	6	5	3	3	100	100	50	38	20	15	10	8	4	4	100	100	50	38	20	15	10	8	4	4	100	100	
22	14 to 22	40	30	15	11	8	6	6	5	3	3	100	100	50	38	20	15	10	8	4	4	100	100	50	38	20	15	10	8	4	4	100	100	
26	18 to 26	40	30	15	11	8	6	5	4	3	3	100	100	50	38	20	15	10	8	4	4	100	100	50	38	20	15	10	8	4	4	100	100	
32	22 to 32	30	22	15	11	6	4	5	4	3	3	100	100	50	38	20	15	10	8	4	4	100	100	50	38	20	15	10	8	4	4	100	100	
40	28 to 40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
50	34 to 50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
63	45 to 63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
75	55 to 75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
90	70 to 90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
100	80 to 100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		