






MPCBs MPX³

technical characteristics

																																				
MPCB	MPX³ 32S	MPX³ 32H	MPX³ 32MA	MPX³ 63H	MPX³ 100H																															
Size	1	2	2	3	4																															
Type	Thermal magnetic	Thermal magnetic	Magnetic only	Thermal magnetic	Thermal magnetic																															
Breaking capacity	Standard	High	High	High	High																															
Handle type	Toggle	Rotary	Rotary	Rotary	Rotary																															
Number of poles	3	3	3	3	3																															
Characteristics of use																																				
Rated operational voltage (Ue)	Up to 690 V	Up to 690 V	Up to 690 V	Up to 690 V	Up to 690 V																															
Rated frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz																															
Rated insulation voltage (Ui)	690 V	690 V	690 V	1000 V	1000 V																															
Rated impulse voltage (Uimp)	6 kV	6 kV	6 kV	8 kV	8 kV																															
Utilisation category	IEC 60947-2 (breaker)	Cat. A	Cat. A	Cat. A	Cat. A																															
	IEC 60947-4 (Motor starter)	AC3	AC3	AC3	AC3																															
Mechanical endurance (Operating)	100000	100000	100000	50000	50000																															
Electric endurance (Cycles)	100000	100000	100000	25000	25000																															
Max operating frequency per hour (Ope./h)	25	25	25	25	25																															
Temperature compensation	-20 to +60°C	-20 to +60°C	-20 to +60°C	-20 to +60°C	-20 to +60°C																															
Instantaneous short circuit release	13 x Ie max.	13 x Ie max.	13 x Ie max.	13 x Ie max.	13 x Ie max.																															
Trip class	10	10	0	10	10																															
Overload protection	•	•	-	•	•																															
Phase failure protection	•	•	-	•	•																															
Trip indicating function	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																															
Test function	•	•	•	•	•																															
Weight (g)	320	360	360	1000	2200																															
Rated breaking capacity (kA)	Rated operational current Ie (A)	Thermal release adjustment range (A)	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					
			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				
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	-	-	-	-	-	-	-	-	-				
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	-	-	-	-	-	-	-	-	-			
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	-	-	-	-	-	-	-	-	-			
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	-	-	-	-	-	-	-	-	-			
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	-	-	-	-	-	-	-	-	-			
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	-	-	-	-	-	-	-	-	-			
2.5	1.6 to 2.5	100	100	100	100	100	100	100	100	50	38	3	3	100	100	100	100	100	100	100	100	100	100	100	8	8	-	-	-	-	-	-	-			
4	2.5 to 4	100	100	100	100	100	100	50	38	15	11	3	3	100	100	100	100	100	100	100	100	100	100	100	8	8	-	-	-	-	-	-	-			
6	4 to 6	100	100	100	100	100	15	11	10	8	3	3	100	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	100	100	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	6	6	100	100	100	100	50	38	6	5	-		
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	6	6	100	100	100	100	50	38	42	32	6		
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	100	100	50
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	100	100	50
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	100	100	50
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	100	100	50
40	28 to 40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
50	34 to 50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
63	45 to 63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
75	55 to 75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
90	70 to 90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
100	80 to 100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		