

■ Protective coordination between MMSs and contactors

• IEC 60947-4-1 Type 1 The rated conditional short-circuit current $I_q=50kA/240V$ AC, 415V AC

Motor capacity and full load current 3-phase				Manual motor starter		Magnetic contactor		Link module	Base plate
200–240V AC		380–415V AC		Type	Adjustable current range (A)	Type	Rated operational current AC-3 (A)		
Capacity (kW)	Current (A)	Capacity (kW)	Current (A)						
0.03	0.24	0.06	0.21	BM3RSB-P25	0.16 to 0.25	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-P25		SC-E02		BZ0LRE22AA	BZ0BPVE22A
0.06	0.37	0.09	0.31	BM3RSB-P40	0.25 to 0.4	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-P40		SC-E02		BZ0LRE22AA	BZ0BPVE22A
–	–	0.12	0.41	BM3RSB-P63	0.4 to 0.63	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-P63		SC-E02		BZ0LRE22AA	BZ0BPVE22A
0.12	0.72	0.18	0.63	BM3RSB-001	0.63 to 1.0	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-001		SC-E02		BZ0LRE22AA	BZ0BPVE22A
–	–	0.25	0.8	BM3RSB-001	0.63 to 1.0	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-001		SC-E02		BZ0LRE22AA	BZ0BPVE22A
0.25	1.4	0.37	1.1	BM3RSB-1P6	1.0 to 1.6	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-1P6		SC-E02		BZ0LRE22AA	BZ0BPVE22A
–	–	0.55	1.5	BM3RSB-1P6	1.0 to 1.6	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-1P6		SC-E02		BZ0LRE22AA	BZ0BPVE22A
0.37	2	0.75	1.9	BM3RSB-2P5	1.6 to 2.5	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-2P5		SC-E02		BZ0LRE22AA	BZ0BPVE22A
–	–	1.1	2.5	BM3RSB-004	2.5 to 4.0	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-004		SC-E02		BZ0LRE22AA	BZ0BPVE22A
0.75	3.6	1.5	3.4	BM3RSB-004	2.5 to 4.0	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-004		SC-E02		BZ0LRE22AA	BZ0BPVE22A
–	–	2.2	4.5	BM3RSB-6P3	4.0 to 6.3	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-6P3		SC-E02		BZ0LRE22AA	BZ0BPVE22A
1.5	6.1	3	6.5	BM3RSB-010	6.3 to 10	SC-M02	9	BZ0LRC09AA	–
				BM3RHB-010		SC-E02		BZ0LRE22AA	BZ0BPVE22A
2.2	9.2	4	8	BM3RSB-010	6.3 to 10	SC-M02	9	BZ0LRC09AA	–
				BM3RHB-010		SC-E02		BZ0LRE22AA	BZ0BPVE22A
3	12	5.5	11	BM3RSB-013	9 to 13	SC-E03	12	BZ0LRE22AA	BZ0BPVE22A
				BM3RHB-013					
4	16	7.5	14	BM3RHB-020	14 to 20	SC-E04	18	BZ0LRE22AA	BZ0BPVE22A
5.5	22	11	21	BM3RHB-025	19 to 25	SC-E05	25	BZ0LRE22AA	BZ0BPVE22A
7.5	29	15	28	BM3RHB-032	24 to 32	SC-E1	32	BZ0LRE32AA	BZ0BPVE32A
				BM3VHB-032					BZ0LVE51AA
11	38	18.5	35	BM3VHB-040	28 to 40	SC-E2	40	BZ0LVE51AA	BZ0BPVE51A
15	50	22	45	BM3VHB-050	35 to 50	SC-E2S	50	BZ0LVE51AA	BZ0BPVE51A

Notes: • The full-load current of each three-phase motor is a reference value.
Check the actual full-load current of the motor before use.

• The above table shows combinations with AC operated type magnetic contactors.
The link module will differ if the magnetic contactor is a DC operated type.

DUO series Combination Starters

Protective coordination

• **IEC 60947-4-1 Type 2** The rated conditional short-circuit current $I_q=50kA/240V AC, 415V AC$

Motor capacity and full load current 3-phase				Manual motor starter		Magnetic contactor		Link module	Base plate
200–240V AC		380–415V AC		Type	Adjustable current range (A)	Type	Rated operational current AC-3 (A)		
Capacity (kW)	Current (A)	Capacity (kW)	Current (A)						
0.03	0.24	0.06	0.21	BM3RSB-P25	0.16 to 0.25	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-P25		SC-E02	9	BZ0LRE22AA	BZ0BPVE22A
0.06	0.37	0.09	0.31	BM3RSB-P40	0.25 to 0.4	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-P40		SC-E02	9	BZ0LRE22AA	BZ0BPVE22A
–	–	0.12	0.41	BM3RSB-P63	0.4 to 0.63	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-P63		SC-E02	9	BZ0LRE22AA	BZ0BPVE22A
0.12	0.72	0.18	0.63	BM3RSB-001	0.63 to 1.0	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-001		SC-E02	9	BZ0LRE22AA	BZ0BPVE22A
–	–	0.25	0.8	BM3RSB-001	0.63 to 1.0	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-001		SC-E02	9	BZ0LRE22AA	BZ0BPVE22A
0.25	1.4	0.37	1.1	BM3RSB-1P6	1.0 to 1.6	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-1P6		SC-E02	9	BZ0LRE22AA	BZ0BPVE22A
–	–	0.55	1.5	BM3RSB-1P6	1.0 to 1.6	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-1P6		SC-E02	9	BZ0LRE22AA	BZ0BPVE22A
0.37	2	0.75	1.9	BM3RSB-2P5	1.6 to 2.5	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-2P5		SC-E02	9	BZ0LRE22AA	BZ0BPVE22A
–	–	1.1	2.5	BM3RSB-004	2.5 to 4.0	SC-M01	6	BZ0LRC09AA	–
				BM3RHB-004		SC-E02	9	BZ0LRE22AA	BZ0BPVE22A
0.75	3.6	1.5	3.4	BM3RSB-004	2.5 to 4.0	SC-E03	12	BZ0LRE22AA	BZ0BPVE22A
				BM3RHB-004					
1.5	6.1	2.2	4.5	BM3RSB-6P3	4.0 to 6.3	SC-E04	18	BZ0LRE22AA	BZ0BPVE22A
				BM3RHB-6P3					
–	–	3	6.5	BM3RSB-010	6.3 to 10	SC-E04	18	BZ0LRE22AA	BZ0BPVE22A
				BM3RHB-010					
2.2	9.2	4	8	BM3RSB-010	6.3 to 10	SC-E04	18	BZ0LRE22AA	BZ0BPVE22A
				BM3RHB-010					
3	12	5.5	11	BM3RSB-013	9 to 13	SC-E05	25	BZ0LRE22AA	BZ0BPVE22A
				BM3RHB-013					
4	16	7.5	14	BM3RHB-020	14 to 20	SC-E05	25	BZ0LRE22AA	BZ0BPVE22A
5.5	22	11	21	BM3RHB-025	19 to 25	SC-E1	32	BZ0LRE32AA	BZ0BPVE32A
				BM3VHB-025				BZ0LVE51AA	BZ0BPVE51A
7.5	29	15	28	BM3RHB-032	24 to 32	SC-E1	32	BZ0LRE32AA	BZ0BPVE32A
				BM3VHB-032				BZ0LVE51AA	BZ0BPVE51A
11	38	18.5	35	BM3VHB-040	28 to 40	SC-E2	40	BZ0LVE51AA	BZ0BPVE51A

Notes: • The full-load current of each three-phase motor is a reference value.
Check the actual full-load current of the motor before use.

• The above table shows combinations with AC operated type magnetic contactors.
The link module will differ if the magnetic contactor is a DC operated type.