

■ 32AF types and ratings

Adjustable thermal-magnetic trip type Instantaneous trip type		Standard breaking capacity BM3RSB-□  KK01-317						High breaking capacity BM3RHB-□ BM3RHBK-□  AF01-42					
Number of poles		3						3					
Handle type		Rocker						Rotary					
Rated current I_n (A)		0.16 to 32											
Rated operational voltage U_e (V)		200 to 690											
Rated frequency (Hz)		50/60											
Rated insulation voltage U_i (V)		690											
Rated impulse withstand voltage U_{imp} (kV)		6											
Utilization category IEC 60947-2 Circuit breaker		Cat. A											
IEC 60947-4-1 Motor starter		AC-3											
Trip class IEC 60947-4-1 *1		10											
Instantaneous trip characteristic		$13 \times I_n \text{ max.}$											
Power loss (total of 3-pole)		7W: $I_n=0.16$ to 25A 8.5W: $I_n=32A$											
Mechanical durability (operations)		100,000: $I_n=0.16$ to 25A 70,000: $I_n=32A$											
Electrical durability (operations)		100,000: $I_n=0.16$ to 25A 70,000: $I_n=32A$											
Max. operations per hour (motor start-up)		25											
Phase-loss protection		Provided											
Tripping state indication		Provided											
Test trip function		Provided											
Rated breaking capacity (kA)	Adjustable current range	240V	415V	460V	500V	690V	240V	415V	460V	500V	690V		
	Code I_e : Min.–Max. (A)	230V	400V	440V		600V	230V	400V	440V		600V		
IEC 60947-2 Replace the □ mark in the type number by current range codes.		I_{cu}	I_{cs}	I_{cu}	I_{cs}	I_{cu}	I_{cs}	I_{cu}	I_{cs}	I_{cu}	I_{cs}	I_{cu}	I_{cs}
	P16 0.1–0.16	100	100	100	100	100	100	100	100	100	100	100	100
	P25 0.16–0.25	100	100	100	100	100	100	100	100	100	100	100	100
	P40 0.25–0.4	100	100	100	100	100	100	100	100	100	100	100	100
	P63 0.4–0.63	100	100	100	100	100	100	100	100	100	100	100	100
	001 0.63–1	100	100	100	100	100	100	100	100	100	100	100	100
	1P6 1–1.6	100	100	100	100	100	100	100	100	100	100	100	100
	2P5 1.6–2.5	100	100	100	100	100	100	3	2	100	100	100	100
	004 2.5–4	100	100	100	100	100	100	3	2	100	100	100	100
	6P3 4–6.3	100	100	100	100	50	38	3	2	100	100	100	100
	010 6.3–10	100	100	100	100	15	11	3	2	100	100	50	38
	013 9–13	100	100	50	38	10	8	3	2	100	100	50	38
	016 11–16	100	100	25	19	10	8	3	2	100	100	35*2	27
	020 14–20	50	38	25	19	10	8	3	2	100	100	35*2	27
	025 19–25	50	38	25	19	10	8	3	2	100	100	35*2	27
	032 24–32	50	38	25	19	10	8	3	2	100	100	35*2	27
	040 28–40	–	–	–	–	–	–	–	–	–	–	–	–
	050 35–50	–	–	–	–	–	–	–	–	–	–	–	–
	063 45–63	–	–	–	–	–	–	–	–	–	–	–	–
Dimensions (mm) W×H×D		45×90×66						45×90×79					
Mass (g)		350						370					
Optional accessory	Auxiliary contact block	○						○					
	Alarm contact block	○						○					
	Auxiliary and alarm contact block	○						○					
	Short-circuit alarm contact block	○						○					
	Shunt trip device	○						○					
	Undervoltage trip device	○						○					
	External operating handle	–						○					
Standard		IEC 60947-1, 60947-2, 60947-4-1, UL 508, CSA C22.2 No.14, TÜV											

Note: *1 Adjustable thermal-magnetic trip type only

*2 When the breaking duty is once "0" in JEM 1195, the breaking capacity is 50kA.

○ Available

– Not available

DUO series Manual Motor Starters

Quick reference guide

■ 63AF types and ratings

Adjustable thermal-magnetic trip type Instantaneous trip type		Standard breaking capacity BM3VSB-□  AF01-47					High breaking capacity BM3VHB-□ BM3VHBK-□  AF01-43				
Number of poles		3					3				
Handle type		Rotary					Rotary				
Rated current I_n (A)		10 to 63									
Rated operational voltage U_e (V)		200 to 690									
Rated frequency (Hz)		50/60									
Rated insulation voltage U_i (V)		1000									
Rated impulse withstand voltage U_{imp} (kV)		8									
Utilization IEC 60947-2 Circuit breaker category		Cat. A									
IEC 60947-4-1 Motor starter		AC-3									
Trip class IEC 60947-4-1 ^{*1}		10									
Instantaneous trip characteristic		$13 \times I_n \text{ max.}$									
Power loss (total of 3-pole)		11W: $I_n=10$ to 32A 15W: $I_n=40$ to 50A 17W: $I_n=63A$									
Mechanical durability (operations)		50,000									
Electrical durability (operations)		25,000									
Max. operations per hour (motor start-up)		25									
Phase-loss protection		Provided									
Tripping state indication		Provided									
Test trip function		Provided									
Rated breaking capacity (kA)	Adjustable current range	240V 230V	415V 400V	460V 440V	500V	690V 600V	240V 230V	415V 400V	460V 440V	500V	690V 600V
	Code I_e : Min.–Max. (A)	I_{cu} I_{cs}	I_{cu} I_{cs}	I_{cu} I_{cs}	I_{cu} I_{cs}	I_{cu} I_{cs}	I_{cu} I_{cs}	I_{cu} I_{cs}	I_{cu} I_{cs}	I_{cu} I_{cs}	I_{cu} I_{cs}
IEC 60947-2											
Replace the □ mark in the type number by current range codes.		P16	0.1–0.16	–	–	–	–	–	–	–	–
		P25	0.16–0.25	–	–	–	–	–	–	–	–
		P40	0.25–0.4	–	–	–	–	–	–	–	–
		P63	0.4–0.63	–	–	–	–	–	–	–	–
		001	0.63–1	–	–	–	–	–	–	–	–
		1P6	1–1.6	–	–	–	–	–	–	–	–
		2P5	1.6–2.5	–	–	–	–	–	–	–	–
		004	2.5–4	–	–	–	–	–	–	–	–
		6P3	4–6.3	–	–	–	–	–	–	–	–
		010	6.3–10	100 100	100 100	15 12	10 8	4 3	100 100	100 100	50 38
		013	9–13	100 100	50 38	10 8	6 5	4 3	100 100	100 100	50 38
		016	11–16	100 100	25 19	10 8	6 5	4 3	100 100	50 38	50 38
		020	14–20	50 38	25 19	10 8	6 5	4 3	100 100	50 38	50 38
		025	19–25	50 38	25 19	10 8	6 5	4 3	100 100	50 38	35 ^{*2} 27
		032	24–32	50 38	25 19	10 8	6 5	4 3	100 100	50 38	35 ^{*2} 27
		040	28–40	50 38	25 19	10 8	6 5	4 3	100 100	50 38	35 ^{*2} 27
		050	35–50	50 38	25 19	10 8	6 5	4 3	100 100	50 38	35 ^{*2} 27
		063	45–63	50 38	25 19	10 8	6 5	4 3	100 100	50 38	35 ^{*2} 27
Dimensions (mm) W×H×D		55×110×96									
Mass (g)		780									
Optional accessory	Auxiliary contact block	○									
	Alarm contact block	○									
	Auxiliary and alarm contact block	○									
	Short-circuit alarm contact block	○									
	Shunt trip device	○									
	Undervoltage trip device	○									
	External operating handle	○									
Standard		IEC 60947-1, 60947-2, 60947-4-1, UL 508, CSA C22.2 No.14, TÜV									

Note: ^{*1} Adjustable thermal-magnetic trip type only

○ Available

– Not available

^{*2} When the breaking duty is once "0" in JEM 1195, the breaking capacity is 50kA.

■ 32AF types and ratings, with ring terminal connection

Adjustable thermal-magnetic trip type Instantaneous trip type		Standard breaking capacity BM3RSR-□  KKD05-197						High breaking capacity BM3RHR-□ BM3RHRK-□  KKD05-198					
Number of poles		3						3					
Handle type		Rocker						Rotary					
Rated current I_n (A)		0.16 to 32											
Rated operational voltage U_e (V)		200 to 690											
Rated frequency (Hz)		50/60											
Rated insulation voltage U_i (V)		690											
Rated impulse withstand voltage U_{imp} (kV)		6											
Utilization category IEC 60947-2 Circuit breaker		Cat. A											
IEC 60947-4-1 Motor starter		AC-3											
Trip class IEC 60947-4-1 *1		10											
Instantaneous trip characteristic		$13 \times I_n \text{ max.}$											
Power loss (total of 3-pole)		7W: $I_n=0.16$ to 25A 8.5W: $I_n=32A$											
Mechanical durability (operations)		100,000: $I_n=0.16$ to 25A 70,000: $I_n=32A$											
Electrical durability (operations)		100,000: $I_n=0.16$ to 25A 70,000: $I_n=32A$											
Max. operations per hour (motor start-up)		25											
Phase-loss protection		Provided											
Tripping state indication		Provided											
Test trip function		Provided											
Rated breaking capacity (kA)	Adjustable current range	240V	415V	460V	500V	690V	240V	415V	460V	500V	690V		
	Code I_e : Min.–Max. (A)	230V	400V	440V		600V	230V	400V	440V		600V		
IEC 60947-2 Replace the □ mark in the type number by current range codes.		I_{cu}	I_{cs}	I_{cu}	I_{cs}	I_{cu}	I_{cs}	I_{cu}	I_{cs}	I_{cu}	I_{cs}	I_{cu}	I_{cs}
	P16 0.1–0.16	100	100	100	100	100	100	100	100	100	100	100	100
	P25 0.16–0.25	100	100	100	100	100	100	100	100	100	100	100	100
	P40 0.25–0.4	100	100	100	100	100	100	100	100	100	100	100	100
	P63 0.4–0.63	100	100	100	100	100	100	100	100	100	100	100	100
	001 0.63–1	100	100	100	100	100	100	100	100	100	100	100	100
	1P6 1–1.6	100	100	100	100	100	100	100	100	100	100	100	100
	2P5 1.6–2.5	100	100	100	100	100	100	3	2	100	100	100	100
	004 2.5–4	100	100	100	100	100	100	3	2	100	100	100	100
	6P3 4–6.3	100	100	100	100	50	38	50	38	3	2	100	100
	010 6.3–10	100	100	100	100	15	11	10	8	3	2	100	100
	013 9–13	100	100	50	38	10	8	6	5	3	2	100	100
	016 11–16	100	100	25	19	10	8	6	5	3	2	100	100
	020 14–20	50	38	25	19	10	8	6	5	3	2	100	100
	025 19–25	50	38	25	19	10	8	6	5	3	2	100	100
	032 24–32	50	38	25	19	10	8	6	5	3	2	100	100
	040 28–40	–	–	–	–	–	–	–	–	–	–	–	–
	050 35–50	–	–	–	–	–	–	–	–	–	–	–	–
	063 45–63	–	–	–	–	–	–	–	–	–	–	–	–
Dimensions (mm) W×H×D		45×90×66						45×90×79					
Mass (g)		350						370					
Optional accessory	Auxiliary contact block	○						○					
	Alarm contact block	○						○					
	Auxiliary and alarm contact block	○						○					
	Short-circuit alarm contact block	○						○					
	Shunt trip device	○						○					
	Undervoltage trip device	○						○					
	External operating handle	–						○					
Standard		IEC 60947-1, 60947-2, 60947-4-1, UL 508, CSA C22.2 No.14, TÜV											

Note: *1 Adjustable thermal-magnetic trip type only

*2 When the breaking duty is once "0" in JEM 1195, the breaking capacity is 50kA.

○ Available

– Not available

DUO series Manual Motor Starters

Adjustable thermal-magnetic trip types

Adjustable thermal-magnetic trip types

■ Features

- A wide rated operational current range of up to 32A for the 45mm wide and 63A for the 55mm wide starters.
- ON/OFF and trip indications ensure instant status recognition.
- Suitable for 3-phase motors up to 30kW at 440V AC, AC-3.
- Accessories like auxiliary contact blocks, shunt trip devices, and undervoltage trip devices have been standardized for the 45mm and 55mm wide frame sizes of the BM3R and BM3V.
- Enclosures and external operating handles are available as optional accessories.

■ Standards

IEC 60947-1, 60947-2, 60947-4-1, UL 508, CSA C22.2 No.14, TÜV, CCC

■ Types and ratings

• 32AF standard breaking capacity, rocker handle types

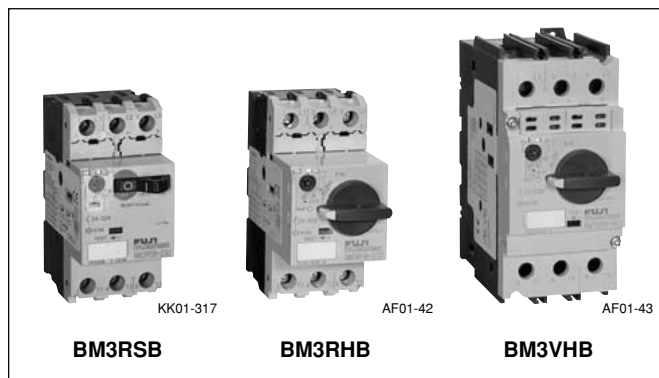
Max. motor capacity and full-load current 3-phase *1				Rated current *2 In (A)	Thermal current setting range I _{le} (A)	Instantaneous trip current (A)	Rated breaking capacity I _{cu} (kA)			Type
200-240V AC (kW)	380-440V AC (A)	200-240V AC (kW)	380-440V AC (A)				240V AC	415V AC	440V AC	
—	—	0.02	0.1	0.16	0.1–0.16	2.1	100	100	100	BM3RSB-P16
0.03	0.24	0.06	0.21	0.25	0.16–0.25	3.3	100	100	100	BM3RSB-P25
0.06	0.37	0.1	0.34	0.4	0.25–0.4	5.2	100	100	100	BM3RSB-P40
0.06	0.37	0.12	0.41	0.63	0.4–0.63	8.2	100	100	100	BM3RSB-P63
0.1	0.68	0.2	0.65	1	0.63–1	13	100	100	100	BM3RSB-001
0.2	1.3	0.4	1.15	1.6	1–1.6	20.8	100	100	100	BM3RSB-1P6
0.4	2.3	0.75	1.8	2.5	1.6–2.5	32.5	100	100	100	BM3RSB-2P5
0.75	3.6	1.5	3.1	4	2.5–4	52	100	100	100	BM3RSB-004
1.5	6.1	2.2	4.6	6.3	4–6.3	81.9	100	100	50	BM3RSB-6P3
2.2	9.2	3.7	7.5	10	6.3–10	130	100	100	15	BM3RSB-010
2.2	9.2	5.5	11.5	13	9–13	169	100	50	10	BM3RSB-013
3.7	15	7.5	14.5	16	11–16	208	100	25	10	BM3RSB-016
3.7	15	7.5	14.5	20	14–20	260	50	25	10	BM3RSB-020
5.5	22.5	11	21	25	19–25	325	50	25	10	BM3RSB-025
7.5	29	15	27.5	32	24–32	416	50	25	10	BM3RSB-032

• 32AF high breaking capacity, rotary handle types

Max. motor capacity and full-load current 3-phase *1				Rated current *2 In (A)	Thermal current setting range I _{le} (A)	Instantaneous trip current (A)	Rated breaking capacity I _{cu} (kA)			Type
200-240V AC (kW)	380-440V AC (A)	200-240V AC (kW)	380-440V AC (A)				240V AC	415V AC	440V AC	
—	—	0.02	0.1	0.16	0.1–0.16	2.1	100	100	100	BM3RHB-P16
0.03	0.24	0.06	0.21	0.25	0.16–0.25	3.3	100	100	100	BM3RHB-P25
0.06	0.37	0.1	0.34	0.4	0.25–0.4	5.2	100	100	100	BM3RHB-P40
0.06	0.37	0.12	0.41	0.63	0.4–0.63	8.2	100	100	100	BM3RHB-P63
0.1	0.68	0.2	0.65	1	0.63–1	13	100	100	100	BM3RHB-001
0.2	1.3	0.4	1.15	1.6	1–1.6	20.8	100	100	100	BM3RHB-1P6
0.4	2.3	0.75	1.8	2.5	1.6–2.5	32.5	100	100	100	BM3RHB-2P5
0.75	3.6	1.5	3.1	4	2.5–4	52	100	100	100	BM3RHB-004
1.5	6.1	2.2	4.6	6.3	4–6.3	81.9	100	100	100	BM3RHB-6P3
2.2	9.2	3.7	7.5	10	6.3–10	130	100	100	50	BM3RHB-010
2.2	9.2	5.5	11.5	13	9–13	169	100	100	50	BM3RHB-013
3.7	15	7.5	14.5	16	11–16	208	100	50	35	BM3RHB-016
3.7	15	7.5	14.5	20	14–20	260	100	50	35	BM3RHB-020
5.5	22.5	11	21	25	19–25	325	100	50	35	BM3RHB-025
7.5	29	15	27.5	32	24–32	416	100	50	35	BM3RHB-032

Notes: *1 Motor full-load currents are based on FUJI's standard type totally-enclosed induction motors.

*2 Max. thermal current setting value



• 63AF standard breaking capacity, rotary handle types

Max. motor capacity and full-load current 3-phase *1				Rated current *2 In (A)	Thermal current setting range Ie (A)	Instantaneous trip current (A)	Rated breaking capacity Icu (kA)			Type
200-240V AC (kW)	(A)	380-440V AC (kW)	(A)				240V AC	415V AC	440V AC	
2.2	9.2	3.7	7.5	10	6.3–10	130	100	100	15	BM3VSB-010
2.2	9.2	5.5	11.5	13	9–13	169	100	50	10	BM3VSB-013
3.7	15	7.5	14.5	16	11–16	208	100	25	10	BM3VSB-016
3.7	15	7.5	14.5	20	14–20	260	50	25	10	BM3VSB-020
5.5	22.5	11	21	25	19–25	325	50	25	10	BM3VSB-025
7.5	29	15	27.5	32	24–32	416	50	25	10	BM3VSB-032
7.5	29	18.5	34	40	28–40	520	50	25	10	BM3VSB-040
11	42	22	39	50	35–50	650	50	25	10	BM3VSB-050
15	55	30	54	63	45–63	819	50	25	10	BM3VSB-063

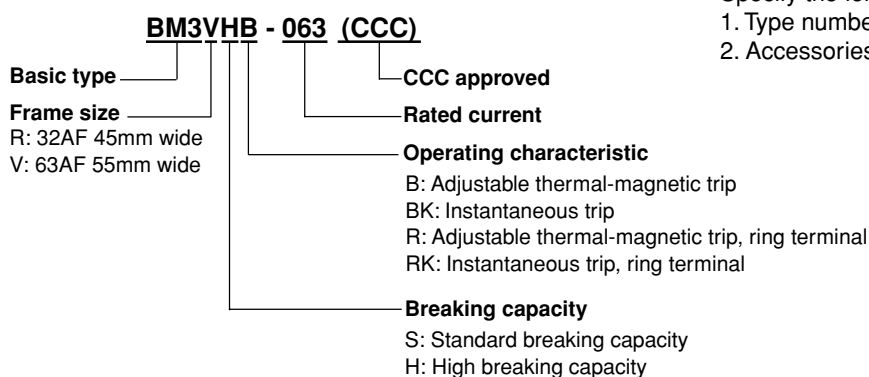
• 63AF high breaking capacity, rotary handle types

Max. motor capacity and full-load current 3-phase *1				Rated current *2 In (A)	Thermal current setting range Ie (A)	Instantaneous trip current (A)	Rated breaking capacity Icu (kA)			Type
200-240V AC (kW)	(A)	380-440V AC (kW)	(A)				240V AC	415V AC	440V AC	
2.2	9.2	3.7	7.5	10	6.3–10	130	100	100	50	BM3VHB-010
2.2	9.2	5.5	11.5	13	9–13	169	100	100	50	BM3VHB-013
3.7	15	7.5	14.5	16	11–16	208	100	50	50	BM3VHB-016
3.7	15	7.5	14.5	20	14–20	260	100	50	50	BM3VHB-020
5.5	22.5	11	21	25	19–25	325	100	50	35	BM3VHB-025
7.5	29	15	27.5	32	24–32	416	100	50	35	BM3VHB-032
7.5	29	18.5	34	40	28–40	520	100	50	35	BM3VHB-040
11	42	22	39	50	35–50	650	100	50	35	BM3VHB-050
15	55	30	54	63	45–63	819	100	50	35	BM3VHB-063

Notes: *1 Motor full-load currents are based on FUJI's standard type totally-enclosed induction motors.

*2 Max. thermal current setting value

■ Type number nomenclature



■ Ordering information

Specify the following:

1. Type number
2. Accessories if required

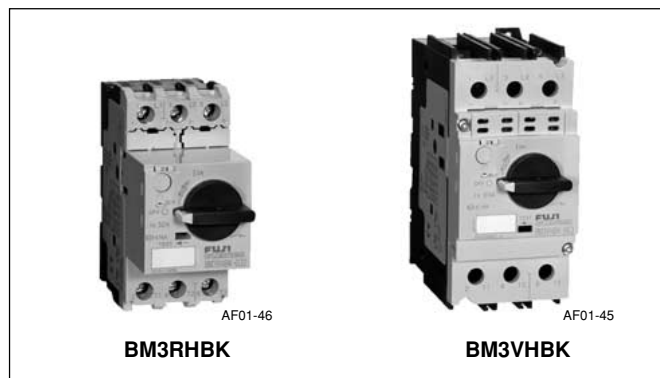
DUO series Manual Motor Starters

Instantaneous trip types

Instantaneous trip types

■ Features

- Instantaneous trip type for short-circuit or overcurrent protection of three-phase motors up to 63A (240V AC, 15kW, or 440V AC, 30kW).
- No overload protection function. Allows motor circuit protection in combination with appropriate thermal overload relay depending on the thermal characteristics of the motor winding and the start-up time of the motor.
- Two modules, 45mm or 55mm wide, cover current ratings from 0.1 to 63A.
RHBK: 45mm wide, rated current of 0.1 to 32A
VHBK: 55mm wide, rated current of 6.3 to 63A
- Rotary handle
- Versatile accessories
Internal and external auxiliary contact blocks, alarm contact block
Short-circuit alarm contact block
Shunt trip device
Undervoltage trip device



■ Standards

IEC 60947-1, 60947-2, 60947-4-1, UL 508
CSA C22.2 No.14, TÜV, CCC

■ Types and ratings

• 32AF high breaking capacity, rotary handle type

Max. motor capacity and full-load current 3-phase *				Rated current In (A)	Instantaneous trip current (A)	Rated breaking capacity Icu (kA)			Type
200-240V AC (kW)	(A)	380-440V AC (kW)	(A)			240V AC	415V AC	440V AC	
—	—	0.02	0.1	0.16	2.1	100	100	100	BM3RHBK-P16
0.03	0.24	0.06	0.21	0.25	3.3	100	100	100	BM3RHBK-P25
0.06	0.37	0.1	0.34	0.4	5.2	100	100	100	BM3RHBK-P40
0.06	0.37	0.12	0.41	0.63	8.2	100	100	100	BM3RHBK-P63
0.1	0.68	0.2	0.65	1	13	100	100	100	BM3RHBK-001
0.2	1.3	0.4	1.15	1.6	20.8	100	100	100	BM3RHBK-1P6
0.4	2.3	0.75	1.8	2.5	32.5	100	100	100	BM3RHBK-2P5
0.75	3.6	1.5	3.1	4	52	100	100	100	BM3RHBK-004
1.5	6.1	2.2	4.6	6.3	81.9	100	100	100	BM3RHBK-6P3
2.2	9.2	3.7	7.5	10	130	100	100	50	BM3RHBK-010
2.2	9.2	5.5	11.5	13	169	100	100	50	BM3RHBK-013
3.7	15	7.5	14.5	16	208	100	50	35	BM3RHBK-016
3.7	15	7.5	14.5	20	260	100	50	35	BM3RHBK-020
5.5	22.5	11	21	25	325	100	50	35	BM3RHBK-025
7.5	29	15	27.5	32	416	100	50	35	BM3RHBK-032

Notes: * Motor full-load currents are based on FUJI's standard type totally-enclosed induction motors.

- Select appropriate thermal overload relay for starter.

• 63AF high breaking capacity, rotary handle type

Max. motor capacity and full-load current 3-phase *				Rated current In (A)	Instantaneous trip current (A)	Rated breaking capacity Icu (kA)			Type
200-240V AC (kW)	(A)	380-440V AC (kW)	(A)			240V AC	415V AC	440V AC	
2.2	9.2	3.7	7.5	10	130	100	100	50	BM3VHBK-010
2.2	9.2	5.5	11.5	13	169	100	100	50	BM3VHBK-013
3.7	15	7.5	14.5	16	208	100	50	50	BM3VHBK-016
3.7	15	7.5	14.5	20	260	100	50	50	BM3VHBK-020
5.5	22.5	11	21	25	325	100	50	35	BM3VHBK-025
7.5	29	15	27.5	32	416	100	50	35	BM3VHBK-032
7.5	29	18.5	34	40	520	100	50	35	BM3VHBK-040
11	42	22	39	50	650	100	50	35	BM3VHBK-050
15	55	30	54	63	819	100	50	35	BM3VHBK-063

Notes: *1 Motor full-load currents are based on FUJI's standard type totally-enclosed induction motors.

- Select appropriate thermal overload relay for starter.

Ring terminal connection types Adjustable thermal-magnetic trip types

■ Features

- Similar to FUJI MCCBs, the new type allows easy mounting and removal of the terminal cover, and up to two ring crimp terminals can be connected from the upper terminal part.
- Straight wiring connection is also possible in addition to ring terminal connection.
- The BM3RSR (0.16 to 32A rocker handle types) and BM3RHR (0.16 to 32A rotary handle types) are available.
- All optional accessories for standard manual motor starters can be mounted.
- The series conforms to IEC, UL and JIS standards, as do the standard manual motor starters.
- Crimp terminal insulation and a long terminal cover conforming to UL508 type E and F standards are available. (Purchased separately.)



■ Types and ratings

• 32AF standard breaking capacity, rocker handle types

Max. motor capacity and full-load current 3-phase *1				Rated current *2 In (A)	Thermal current setting range Ie (A)	Instantaneous trip current (A)	Rated breaking capacity Icu (kA)			Type
200-240V AC (kW)	(A)	380-440V AC (kW)	(A)				240V AC	415V AC	440V AC	
—	—	0.02	0.1	0.16	0.1–0.16	2.1	100	100	100	BM3RSR-P16
0.03	0.24	0.06	0.21	0.25	0.16–0.25	3.3	100	100	100	BM3RSR-P25
0.06	0.37	0.1	0.34	0.4	0.25–0.4	5.2	100	100	100	BM3RSR-P40
0.06	0.37	0.12	0.41	0.63	0.4–0.63	8.2	100	100	100	BM3RSR-P63
0.1	0.68	0.2	0.65	1	0.63–1	13	100	100	100	BM3RSR-001
0.2	1.3	0.4	1.15	1.6	1–1.6	20.8	100	100	100	BM3RSR-1P6
0.4	2.3	0.75	1.8	2.5	1.6–2.5	32.5	100	100	100	BM3RSR-2P5
0.75	3.6	1.5	3.1	4	2.5–4	52	100	100	100	BM3RSR-004
1.5	6.1	2.2	4.6	6.3	4–6.3	81.9	100	100	50	BM3RSR-6P3
2.2	9.2	3.7	7.5	10	6.3–10	130	100	100	15	BM3RSR-010
2.2	9.2	5.5	11.5	13	9–13	169	100	50	10	BM3RSR-013
3.7	15	7.5	14.5	16	11–16	208	100	25	10	BM3RSR-016
3.7	15	7.5	15	20	14–20	260	50	25	10	BM3RSR-020
5.5	22.5	11	21	25	19–25	325	50	25	10	BM3RSR-025
7.5	29	15	27.5	32	24–32	416	50	25	10	BM3RSR-032

Notes: *1 Motor full-load currents are based on FUJI's standard type totally-enclosed induction motors.

*2 Max. thermal current setting value

• 32AF high breaking capacity, rotary handle types

Max. motor capacity and full-load current 3-phase *1				Rated current *2 In (A)	Thermal current setting range Ie (A)	Instantaneous trip current (A)	Rated breaking capacity Icu (kA)			Type
200-240V AC (kW)	(A)	380-440V AC (kW)	(A)				240V AC	415V AC	440V AC	
—	—	0.02	0.1	0.16	0.1–0.16	2.1	100	100	100	BM3RHR-P16
0.03	0.24	0.06	0.21	0.25	0.16–0.25	3.3	100	100	100	BM3RHR-P25
0.06	0.37	0.1	0.34	0.4	0.25–0.4	5.2	100	100	100	BM3RHR-P40
0.06	0.37	0.12	0.41	0.63	0.4–0.63	8.2	100	100	100	BM3RHR-P63
0.1	0.68	0.2	0.65	1	0.63–1	13	100	100	100	BM3RHR-001
0.2	1.3	0.4	1.15	1.6	1–1.6	20.8	100	100	100	BM3RHR-1P6
0.4	2.3	0.75	1.8	2.5	1.6–2.5	32.5	100	100	100	BM3RHR-2P5
0.75	3.6	1.5	3.1	4	2.5–4	52	100	100	100	BM3RHR-004
1.5	6.1	2.2	4.6	6.3	4–6.3	81.9	100	100	100	BM3RHR-6P3
2.2	9.2	3.7	7.5	10	6.3–10	130	100	100	50	BM3RHR-010
2.2	9.2	5.5	11.5	13	9–13	169	100	100	50	BM3RHR-013
3.7	15	7.5	14.5	16	11–16	208	100	50	35	BM3RHR-016
3.7	15	7.5	14.5	20	14–20	260	100	50	35	BM3RHR-020
5.5	22.5	11	21	25	19–25	325	100	50	35	BM3RHR-025
7.5	29	15	27.5	32	24–32	416	100	50	35	BM3RHR-032

Notes: *1 Motor full-load currents are based on FUJI's standard type totally-enclosed induction motors.

*2 Max. thermal current setting value

DUO series Manual Motor Starters

Ring terminal connection types

Instantaneous trip types

• 32AF high breaking capacity, rotary handle type

Max. motor capacity and full-load current 3-phase *1				Rated current *2 In (A)	Instantaneous trip current (A)	Rated breaking capacity Icu (kA)			Type
200-240V AC		380-440V AC				240V AC	415V AC	440V AC	
(kW)	(A)	(kW)	(A)						
—	—	0.02	0.1	0.16	2.1	100	100	100	BM3RHRK-P16
0.03	0.24	0.06	0.21	0.25	3.3	100	100	100	BM3RHRK-P25
0.06	0.37	0.1	0.34	0.4	5.2	100	100	100	BM3RHRK-P40
0.06	0.37	0.12	0.41	0.63	8.2	100	100	100	BM3RHRK-P63
0.1	0.68	0.2	0.65	1	13	100	100	100	BM3RHRK-001
0.2	1.3	0.4	1.15	1.6	20.8	100	100	100	BM3RHRK-1P6
0.4	2.3	0.75	1.8	2.5	32.5	100	100	100	BM3RHRK-2P5
0.75	3.6	1.5	3.1	4	52	100	100	100	BM3RHRK-004
1.5	6.1	2.2	4.6	6.3	81.9	100	100	100	BM3RHRK-6P3
2.2	9.2	3.7	7.5	10	130	100	100	50	BM3RHRK-010
2.2	9.2	5.5	11.5	13	169	100	100	50	BM3RHRK-013
3.7	15	7.5	14.5	16	208	100	50	35	BM3RHRK-016
3.7	15	7.5	14.5	20	260	100	50	35	BM3RHRK-020
5.5	22.5	11	21	25	325	100	50	35	BM3RHRK-025
7.5	29	15	27.5	32	416	100	50	35	BM3RHRK-032

Notes: *1 Motor full-load currents are based on FUJI's standard type totally-enclosed induction motors.

*2 Max. thermal current setting value

■ Wirings

	Wire size (mm ²)	Ring crimp terminal max. width (mm)	Terminal screw	Tightening torque (N·m)
Line side	1 to 8	11 (R1.25-4 to R8-4)	M4	2
Load side	1 to 8	11 (R1.25-4 to R8-4)	M4	2