

Manual Motor Starters

Quick selection table ... IEC rating



Frame Size (AF)			32AF																						
Type	Current adjustable type		MMS-32S								MMS-32H														
	Instantaneous type		-								MMS-32HI														
	Breaking capacity		Standard								High breaking														
	Handle Type		Toggle								Rotary														
Number of poles			3								3														
Rated operational voltage (Ue)			Up to 690V								Up to 690V														
Rated frequency			50/60 Hz								50/60 Hz														
Rated insulation voltage (Ui)			690V								690V														
Rated impulse voltage (Uimp)			6kV								6kV														
Utilization category	IEC 60 947-2 (Breaker)		Cat. A								Cat. A														
	IEC 60 947-4 (Motor starter)		AC 3								AC 3														
Mechanical endurance (Operating)			100,000								100,000														
Electrical endurance (Cycles)			100,000								100,000														
Max operating frequency per hour (Ope./h)			25								25														
Temperature compensation (Operation)			-20 ~ +60°C								-20 ~ +60°C														
Instantaneous short circuit release			13 × Ie max.								13 × Ie max.														
Overload protection			○								○														
Phase failure function			○								○														
Trip indicating function			×								×														
Test function			○								○														
Dimension(W×H×D)			45×105×54.4								45×105×60.3														
Weight (g)			320								360														
Rated breaking capacity (kA)	Rated operational current (Ie)	Thermal release Adjustment range (A)	220V 240V 230V		415V 400V		460V 440V		525V 500V		690V 600V		220V 240V 230V		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			
			0.16	0.1~0.16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
			0.25	0.16~0.25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
			0.4	0.25~0.4	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
			0.63	0.4~0.63	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
			1	0.63~1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
			1.6	1~1.6	100	100	100	100	100	100	100	100	3	3	100	100	100	100	100	100	100	100	100	100	
			2.5	1.6~2.5	100	100	100	100	100	100	100	50	38	3	3	100	100	100	100	100	100	100	100	8	8
			4	2.5~4	100	100	100	100	50	38	15	11	3	3	100	100	100	100	100	100	100	100	8	8	
			6	4~6	100	100	100	100	15	11	10	8	3	3	100	100	100	100	100	100	100	100	6	6	
			8	5~8	100	100	100	100	15	11	10	8	3	3	100	100	100	100	50	38	50	38	6	6	
			10	6~10	100	100	50	38	15	11	6	5	3	3	100	100	100	100	50	38	50	38	6	6	
			13	9~13	100	100	50	38	10	8	6	5	3	3	100	100	100	100	50	38	42	32	6	6	
17	11~17	50	38	20	15	10	8	6	5	3	3	100	100	50	38	20	15	10	8	4	4				
22	14~22	40	30	15	11	8	6	6	5	3	3	100	100	50	38	20	15	10	8	4	4				
26	18~26	40	30	15	11	8	6	5	4	3	3	100	100	50	38	20	15	10	8	4	4				
32	22~32	30	22	10	5	6	4	5	4	3	3	100	100	50	38	20	15	10	8	4	4				
40	28~40	20	15	10	5	5	3	4	3	2	2	100	100	40	30	15	11	8	6	3	3				
50	34~50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
63	45~63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
65	47~65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
75	55~75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
90	70~90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
100	80~100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				



63AF											100AF										
MMS-63S					MMS-63H						MMS-100S					MMS-100H					
-					-						-					-					
Standard					High breaking						Standard					High breaking					
Rotary					Rotary						Rotary					Rotary					
3					3						3					3					
Up to 690V					Up to 690V						Up to 690V					Up to 690V					
50/60 Hz					50/60 Hz						50/60 Hz					50/60 Hz					
1,000V					1,000V						1,000V					1,000V					
8kV					8kV						8kV					8kV					
Cat. A					Cat. A						Cat. A					Cat. A					
AC 3					AC 3						AC 3					AC 3					
50,000					50,000						50,000					50,000					
25,000					25,000						25,000					25,000					
25					25						25					25					
-20 ~ +60°C					-20 ~ +60°C						-20 ~ +60°C					-20 ~ +60°C					
13 × I _e max.					13 × I _e max.						13 × I _e max.					13 × I _e max.					
○					○						○					○					
○					○						○					○					
×					×						○					○					
○					○						○					○					
55 × 125 × 112.3					55 × 125 × 112.3						70 × 165 × 138					70 × 165 × 138					
1,000					1,000						2,200					2,200					
220V 240V 230V	415V 400V	460V 440V	525V 500V	690V 600V	220V 240V 230V	415V 400V	460V 440V	525V 500V	690V 600V	220V 240V 230V	415V 400V	460V 440V	525V 500V	690V 600V	220V 240V 230V	415V 400V	460V 440V	525V 500V	690V 600V		
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}		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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100	100	100	100	15	12	10	8	4	3	100	100	100	100	50	38	50	38	6	5		
100	100	50	38	10	8	6	5	4	3	100	100	100	100	50	38	42	32	6	5		
100	100	25	19	10	8	6	5	4	3	100	100	50	50	38	12	9	5	5	100		
50	38	25	19	10	8	6	5	4	3	100	100	50	50	38	12	9	5	5	100		
50	38	25	19	10	8	6	5	4	3	100	100	50	50	35	27	12	9	5	5		
50	38	25	19	10	8	6	5	4	3	100	100	50	50	35	27	10	8	5	5		
50	38	25	19	10	8	6	5	4	3	100	100	50	50	35	27	10	8	5	5		
50	38	25	19	10	8	6	5	4	3	100	100	50	50	35	27	10	8	5	5		
50	38	25	19	10	8	6	5	4	3	100	100	50	50	35	27	10	8	5	5		
50	38	25	19	10	8	6	5	4	3	75	50	35	27	25	19	6	5	3	3		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	50	38	40		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	50	38	40		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	50	38	40		