

Manual Motor Starters

Product Selection Guide

Quick selection table ... IEC rating



Frame		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 × I _e max.							13 × I _e max.														
Overload protection		o							o														
Phase failure function		o							o														
Trip indicating function		x							x														
Test function		o							o														
Weight (g)		320							360														
Rated breaking capacity (kA)	Rated operational current (I _e)	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		
			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}	
0.16	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	100	
0.25	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	0.4	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	0.63	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	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	1.6	1~1.6	100	100	100	100	100	100	100	100	100	3	3	100	100	100	100	100	100	100	100	100	
2.5	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	4	2.5~4	100	100	100	100	50	38	15	11	3	3	100	100	100	100	100	100	100	100	100	8	8
6	6	4~6	100	100	100	100	15	11	10	8	3	3	100	100	100	100	100	100	100	100	100	6	6
8	8	5~8	100	100	100	100	15	11	10	8	3	3	100	100	100	100	50	38	50	38	6	6	6
10	10	6~10	100	100	50	38	15	11	6	5	3	3	100	100	100	100	50	38	50	38	6	6	6
13	13	9~13	100	100	50	38	10	8	6	5	3	3	100	100	100	100	50	38	42	32	6	6	6
17	17	11~17	50	38	20	15	10	8	6	5	3	3	100	100	50	38	20	15	10	8	4	4	4
22	22	14~22	40	30	15	11	8	6	6	5	3	3	100	100	50	38	20	15	10	8	4	4	4
26	26	18~26	40	30	15	11	8	6	5	4	3	3	100	100	50	38	20	15	10	8	4	4	4
32	32	22~32	30	22	15	11	6	4	5	4	3	3	100	100	50	38	20	15	10	8	4	4	4
40	40	28~40	20	15	10	8	5	3	4	3	2	2	100	100	40	30	15	11	8	6	3	3	3
50	50	34~50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63	63	45~63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65	65	47~65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75	75	55~75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
90	90	70~90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100	100	80~100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



63AF													100AF															
MMS-63S						MMS-63H						MMS-100S					MMS-100H											
-						MMS-63HI						-					MMS-100HI											
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.											
o						o						o					o											
o						o						o					o											
x						x						o					o											
o						o						o					o											
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}	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	50	38	12	9	5	5	100	100	50	38	40	30	25	19	10
50	38	25	19	10	8	6	5	4	3	100	100	50	50	50	38	12	9	5	5	100	100	50	38	40	30	25	19	10
50	38	25	19	10	8	6	5	4	3	100	100	50	50	35	27	12	9	5	5	100	100	50	38	40	30	25	19	10
50	38	25	19	10	8	6	5	4	3	100	100	50	50	35	27	10	8	5	5	100	100	50	38	40	30	15	11	10
50	38	25	19	10	8	6	5	4	3	100	100	50	50	35	27	10	8	5	5	100	100	50	38	40	30	15	11	6
50	38	25	19	10	8	6	5	4	3	100	100	50	50	35	27	10	8	5	5	100	100	50	38	40	30	12	9	6
50	38	25	19	10	8	6	5	4	3	100	100	50	50	35	27	10	8	5	5	100	100	50	38	40	30	12	9	6
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	30	8	6	5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	50	38	40	30	8	6	5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	50	38	40	30	8	6	5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	50	38	40	30	8	6	5