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℃										-20 ~ +60℃									
Instantaneous short circuit release			13 × Ie max.										13 × Ie max.									
Overload protection			O										O									
Phase failure function			O										O									
Trip indicating function			×										×									
Test function			O										O									
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	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	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	15	11	6	4	5	4	3	3	100	100	50	38	20	15	10	8	4	4
	40	28~40	20	15	10	8	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
-	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℃	-20 ~ +60℃	-20 ~ +60℃	-20 ~ +60℃
13 × Ie max.	13 × Ie max.	13 × Ie max.	13 × Ie max.
○	○	○	○
○	○	○	○
×	×	○	○
○	○	○	○
1,000	1,000	2,200	2,200

MMS-63S										MMS-63H / MMS-63HI									
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
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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
50	38	25	19	10	8	6	5	4	3	100	100	50	50	50	38	12	9	5	5
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
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MMS-100S										MMS-100H / MMS-100HI									
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
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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100	100	50	38	40	30	25	19	10	8	100	100	100	100	50	38	35	27	12	9
100	100	50	38	40	30	25	19	10	8	100	100	100	50	50	38	35	27	12	9
100	100	50	38	40	30	25	19	10	8	100	100	100	50	50	38	35	27	12	9
100	100	50	38	40	30	15	11	10	8	100	100	100	50	50	38	25	19	12	9
100	100	50	38	40	30	15	11	6	5	100	100	100	50	50	38	20	15	12	9
100	100	50	38	40	30	12	9	6	5	100	100	100	50	50	38	15	11	10	8
100	100	50	38	40	30	12	9	6	5	100	100	100	50	50	38	15	11	8	6
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100	100	50	38	40	30	8	6	5	4	100	100	75	50	50	38	12	9	6	6
100	100	50	38	40	30	8	6	5	4	100	100	75	50	50	38	12	9	6	6
100	100	50	38	40	30	8	6	5	4	100	100	75	50	50	38	12	9	6	6