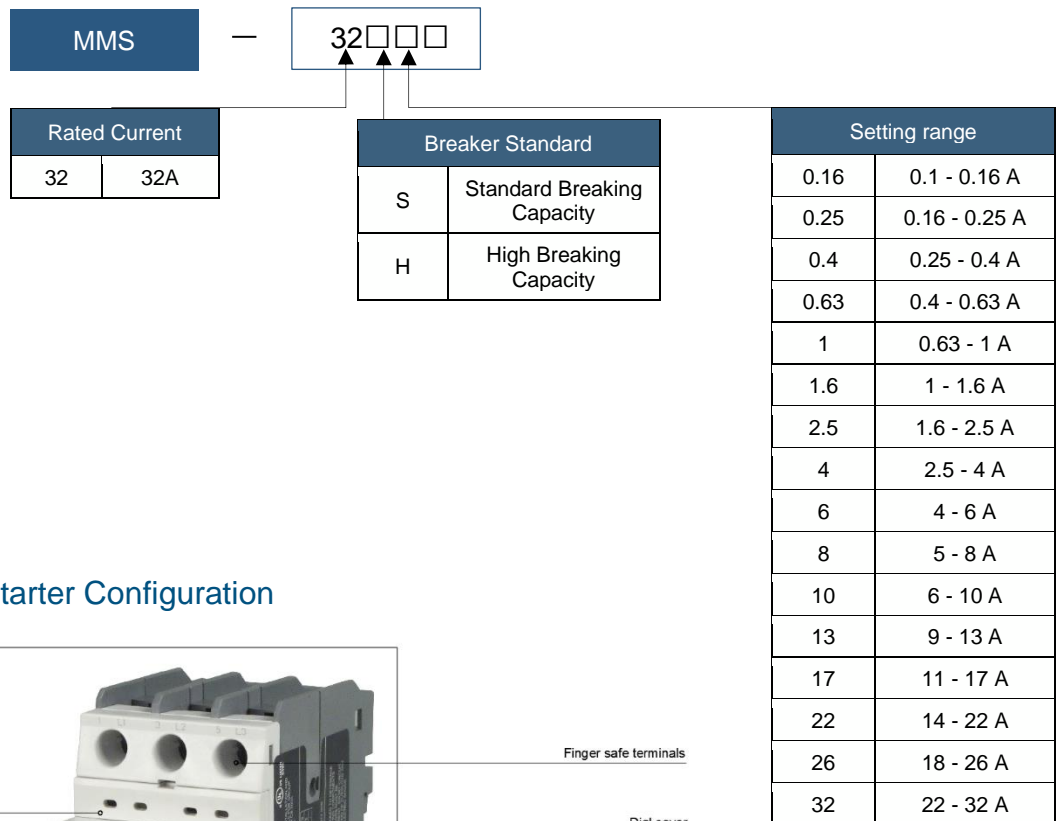




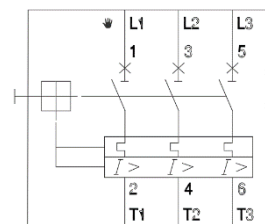
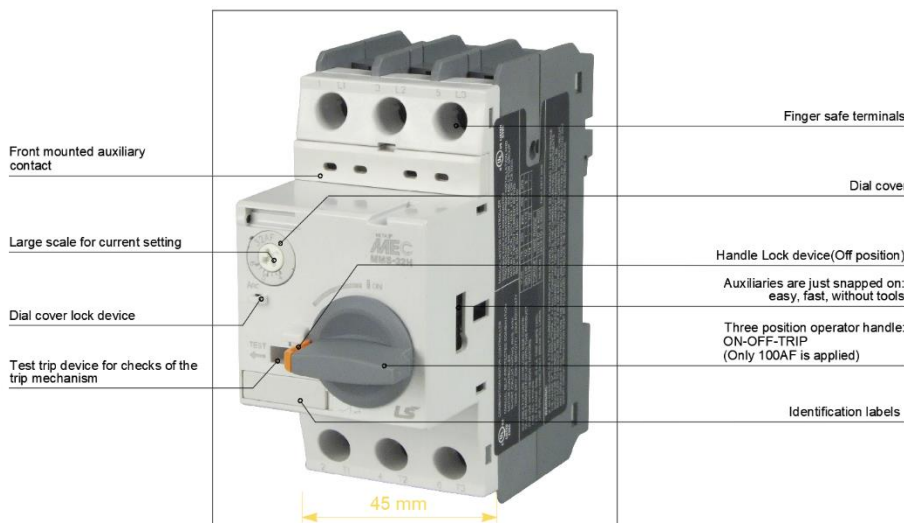
Manual Motor Starters

- Adjustable thermal release
- Magnetic release at 13 times the rated operation current.
- Trip Class 10
- Protection against Phase Failures, short circuit, and Overload.
- Standards-IEC 60947, UL508.
CSA & CCC certified

Generic photo only (actual product may change depending on configuration)



Manual Motor Starter Configuration



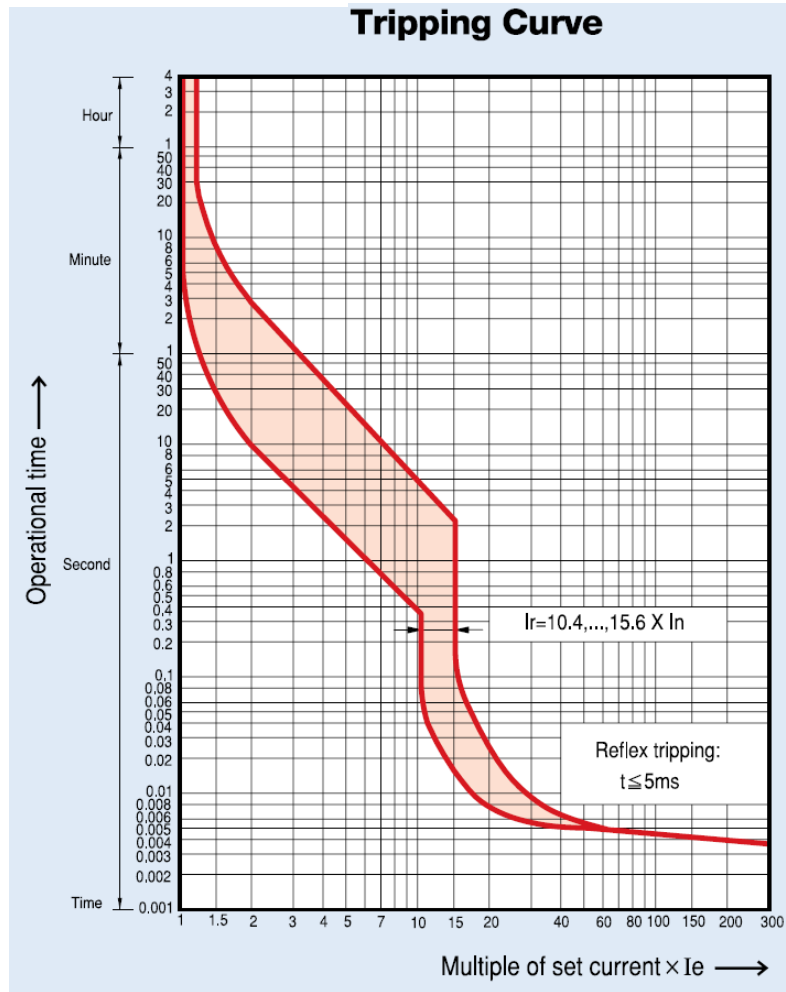
Circuit Diagram

Properties			MMS-32S										MMS-32H											
Manufacturer			LS																					
Product Series			Manual Motor Starters																					
Breaking capacity			Standard Breaking capacity										High Breaking Capacity											
Handle Type			Toggle										Rotary											
No. of Poles			3										3											
Rated operational voltage (Ue)			Up to 690V										Up to 690V											
Rated frequency			50/60Hz										50/60Hz											
Rated insulation voltage (Ui)			690V										690V											
Rated impulse voltage (Uimp)			6kV										6kV											
Utilization category			IEC 60 947-2 (Breaker)					Category A					Category A					Category A						
			IEC 60947-4 (Motor Starter)					AC3					AC3					AC3						
Mechanical endurance (Operations)			100000										100000											
Electrical endurance (Cycles)			100000										100000											
Max operating frequency per hour (Ope.h)			25										25											
Temperature compensation (Operation)			-20 to +60 °C										-20 to +60 °C											
Instantaneous short circuit release			13 x Ie max										13 x Ie max											
Protection Function			Overload Protection, Phase failure										Overload Protection, Phase failure											
Test Function			Trip test button available										Trip test button available											
Weight (g)			320										360											
Rated Breaking Capacity	Rated Operational Current (Ie)	Thermal release Adjustment range (A)	220V 230V 240V		400V 415V		440V 460V		500V 525V		600V 690V		220V 230V 240V		400V 415V		440V 460V		500V 525V		600V 690V			
			Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics
			0.16	0.16 - 0.25 A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0.25	0.25 - 0.4 A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0.4	0.4 - 0.63 A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0.63	0.63 - 1 A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1	1 - 1.6 A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1.6	1.6 - 2.5 A	100	100	100	100	100	100	100	100	3	3	100	100	100	100	100	100	100	100	100	100	100	100	100
2.5	2.5 - 4 A	100	100	100	100	100	100	50	38	3	3	100	100	100	100	100	100	100	100	100	100	8	8	
4	4 - 6 A	100	100	100	100	50	38	15	11	3	3	100	100	100	100	100	100	100	100	100	100	8	8	
6	6 - 8 A	100	100	100	100	15	11	10	8	3	3	100	100	100	100	100	100	100	100	100	6	6	6	
8	8 - 10 A	100	100	100	100	15	11	10	8	3	3	100	100	100	100	50	38	50	38	6	6	6	6	
10	10 - 13 A	100	100	50	38	15	11	6	5	3	3	100	100	100	100	50	38	42	32	6	6	6	6	
13	13 - 17 A	100	100	50	38	10	8	6	5	3	3	100	100	100	100	50	38	42	32	6	6	6	6	
17	17 - 22 A	50	38	20	15	10	8	6	5	3	3	100	100	50	38	20	15	10	8	4	4	4	4	
22	22 - 26 A	40	30	15	11	8	6	5	4	3	3	100	100	50	38	20	15	10	8	4	4	4	4	
26	26 - 32 A	40	30	15	11	8	6	5	4	3	3	100	100	50	38	20	15	10	8	4	4	4	4	
32	32 - 32 A	30	22	10	5	6	4	5	4	3	3	100	100	50	38	20	15	10	8	4	4	4	4	

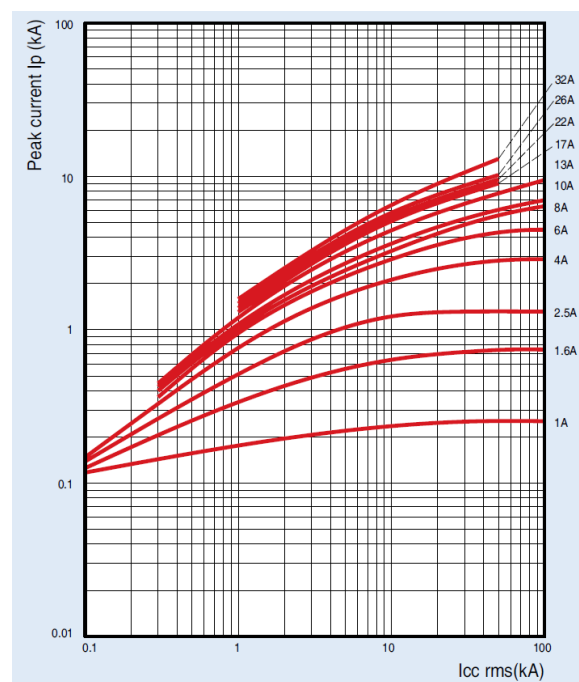
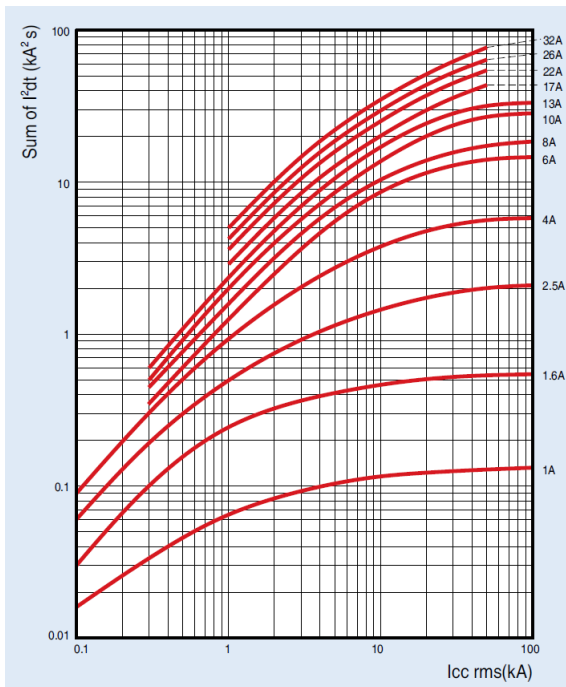
Manual Motor Starter Configuration

Type	Rated Operational current Ie	Thermal release Adjustment range	Magnetic release Operating current	Switching of 3 phase AC motors, AC-2, AC-3						400/415V	
				3-phase [kW] (50/60Hz)			3-phase [HP] (60Hz)			Icu	Ics
				230V	400V	690V	230V	460V	575V	[kA]	[kA]
MMS-32S	0.16	0.1 - 0.16 A	2.08	-	0.02	-	-	-	-	100	100
	0.25	0.16 - 0.25 A	3.25	0.03	0.06	-	-	-	-	100	100
	0.4	0.25 - 0.4 A	5.2	0.06	0.09	-	-	-	-	100	100
	0.63	0.4 - 0.63 A	8.19	0.09	0.12	0.25	-	-	-	100	100
	1	0.63 - 1 A	13	0.12	0.25	0.55	-	1/2	1/2	100	100
	1.6	1 - 1.6 A	20.8	0.25	0.55	1.1	1/3	3/4	1	100	100
	2.5	1.6 - 2.5 A	32.5	0.37	0.75	1.5	1/2	1 1/2	1 1/2	100	100
	4	2.5 - 4 A	52	0.75	1.5	3	1	2	3	100	100
	6	4 - 6 A	78	1.5	2.2	4	1 1/2	5	5	100	100
	8	5 - 8 A	104	1.5	3	5.5	2	5	5	100	100
	10	6 - 10 A	130	3	4	7.5	3	7 1/2	10	50	38
	13	9 - 13 A	169	3	5.5	11	3	7 1/2	10	50	38
	17	11 - 17 A	221	4	7.5	15	5	10	15	20	15
	22	14 - 22 A	286	4	7.5	15	7 1/2	15	20	15	11
	26	18 - 26 A	338	5.5	11	18.5	7 1/2	15	20	15	11
32	22 - 32 A	416	7.5	15	22	10	20	30	15	11	
MMS-32H	0.16	0.1 - 0.16 A	2.08	-	0.02	-	-	-	-	100	100
	0.25	0.16 - 0.25 A	3.25	0.03	0.06	-	-	-	-	100	100
	0.4	0.25 - 0.4 A	5.2	0.06	0.09	-	-	-	-	100	100
	0.63	0.4 - 0.63 A	8.19	0.09	0.12	0.25	-	-	-	100	100
	1	0.63 - 1 A	13	0.12	0.25	0.55	-	1/2	1/2	100	100
	1.6	1 - 1.6 A	20.8	0.25	0.55	1.1	1/3	3/4	1	100	100
	2.5	1.6 - 2.5 A	32.5	0.37	0.75	1.5	1/2	1 1/2	1 1/2	100	100
	4	2.5 - 4 A	52	0.75	1.5	3	1	2	3	100	100
	6	4 - 6 A	78	1.5	2.2	4	1 1/2	5	5	100	100
	8	5 - 8 A	104	1.5	3	5.5	2	5	5	100	100
	10	6 - 10 A	130	3	4	7.5	3	7 1/2	10	100	100
	13	9 - 13 A	169	3	5.5	11	3	7 1/2	10	100	100
	17	11 - 17 A	221	4	7.5	11	5	10	15	50	38
	22	14 - 22 A	286	4	7.5	15	7 1/2	15	20	50	38
	26	18 - 26 A	338	5.5	11	18.5	7 1/2	15	20	50	38
32	22 - 32 A	416	7.5	15	22	10	20	30	50	38	

Trip Curve of MMS-32



Thermal limit in KA^2s in the magnetic operation zone MMS-32 ($U_e=415V$)

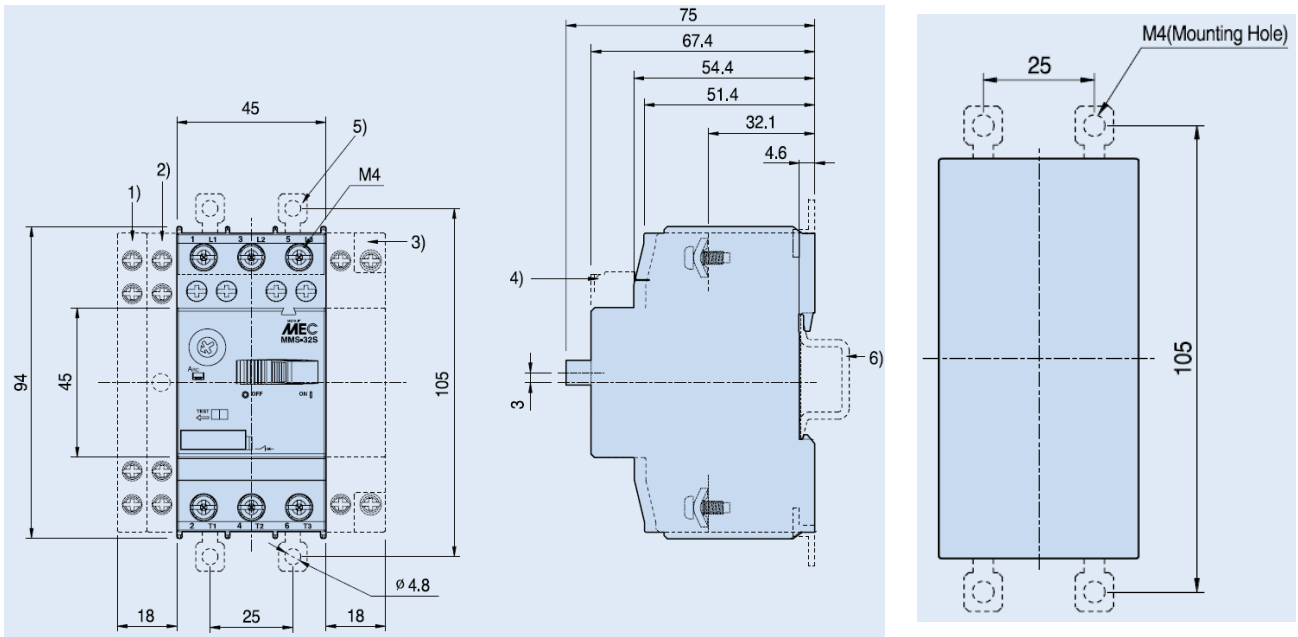


Catalogue number: **MMS-32**□□□□

Manual Motor Starters: 3 Pole 0.16A ~ 32A 100 ~ 11ka @415V



Dimensions for MMS-32S



Dimensions for MMS-32H

