

# Technical Information

## IEC performance data (Motor protection ; Class 20)



### ● MMS 63HL

Rated operational current $I_e$ [A]	10	13	17	22	26	32	40	50	63
<b>Switching of standard three-phase motors</b>									
AC-2, AC-3									
230/240V [kW]	2.2/3	3	3.7/4	4	5.5	7.5	7.5	11	15
400/415V [kW]	3.7/4	5.5	7.5	7.5	11	15	18.5	22	30
500V [kW]	4/5.5	7.5	11	11	15	18.5	22	30	37
690V [kW]	7.5	11	11	15	18.5	22	30	45	55
<b>Back-up fuses</b>									
gG, gL <sub>r</sub> , only if $I_{cc} > I_{cu}$ (* = No back up fuse required)									
230/240V [A]	*	*	*	*	*	*	*	*	*
400/415V [A]	*	*	100	125	125	125	160	160	160
440/460V [A]	100	100	100	125	125	125	125	125	160
500V [A]	100	100	100	100	100	100	100	100	100
690V [A]	63	63	63	80	80	80	80	80	80
<b>Ultimate short-circuit breaking capacity <math>I_{cu}</math></b>									
230/240V [kA]	100	100	100	100	100	100	100	100	100
400/415V [kA]	100	100	50	50	50	50	50	50	50
440/460V [kA]	50	50	50	50	35	35	35	35	35
500V [kA]	50	42	12	12	12	10	10	10	10
690V [kA]	6	6	5	5	5	5	5	5	5
<b>Rated service short-circuit breaking capacity <math>I_{cs}</math></b>									
230/240V [kA]	100	100	100	100	100	100	100	100	100
400/415V [kA]	100	100	50	50	50	50	50	50	50
440/460V [kA]	38	38	38	38	27	27	27	27	27
500V [kA]	38	32	9	9	9	8	8	8	8
690V [kA]	5	5	5	5	5	5	5	5	5



### ● MMS 100HL

Rated operational current $I_e$ [A]	17	22	26	32	40	50	63	75	90	100
<b>Switching of standard three-phase motors</b>										
AC-2, AC-3										
230/240V [kW]	3.7/4	4	5.5	7.5	7.5	11	15	22	30	30
400/415V [kW]	7.5	7.5	11	15	18.5	22	30	37	45	45
500V [kW]	11	11	15	18.5	22	30	37	45	55	63
690V [kW]	11	15	18.5	22	30	45	55	63	75	90
<b>Back-up fuses</b>										
gG, gL <sub>r</sub> , only if $I_{cc} > I_{cu}$ (* = No back up fuse required)										
230/240V [A]	*	*	*	*	*	*	*	*	*	*
400/415V [A]	*	*	*	*	*	*	*	*	*	*
440/460V [A]	125	125	125	160	160	160	200	200	200	200
500V [A]	100	125	125	125	160	160	160	160	160	160
690V [A]	80	80	80	80	80	100	100	125	160	160
<b>Ultimate short-circuit breaking capacity <math>I_{cu}</math></b>										
230/240V [kA]	100	100	100	100	100	100	100	100	100	100
400/415V [kA]	100	100	100	100	100	100	100	75	75	75
440/460V [kA]	50	50	50	50	50	50	50	50	50	50
500V [kA]	35	35	35	25	20	15	15	12	12	12
690V [kA]	12	12	12	12	12	10	8	6	6	6
<b>Rated service short-circuit breaking capacity <math>I_{cs}</math></b>										
230/240V [kA]	100	100	100	100	100	100	100	100	100	100
400/415V [kA]	100	50	50	50	50	50	50	50	50	50
440/460V [kA]	38	38	38	38	38	38	38	38	38	38
500V [kA]	27	27	27	19	15	11	11	9	9	9
690V [kA]	9	9	9	9	9	8	6	6	6	6

Note) \* = Short circuit proof up to 50 or 100kA.  
No back up fuse required.