

Metasol Manual Motor Starter

MMS-100S



General

Product code	0707100700
Product description	MMS-100S 63A METASOL EXP
Type	Current adjustable type
Breaking capacity	Standard
Rated operational current (Ie)	63A
Thermal release Adjustment range (A)	45-63
Type of terminal	Lug
Handle type	Rotary
Local/Export	Export
Standards	IEC 60947-4-1, IEC 60947-2, UL508
Certificates	CE, UL, CCC
	KR, LR, BV, DNV GL, ABS, RINA

Characteristics

Poles description	3P
Trip class	10
Rated operational voltage [Ue]	Up to 690V
Rated insulation voltage [Ui]	1000V
Rated withstand voltage [Uimp]	8kV
Rated frequency [Hz]	50/60Hz

Instantaneous short circuit release	13 x I _e max.
Max operating frequency per hour (Ope./h)	25
Mechanical endurance (Operating)	50000
Electrical endurance (Cycles)	25000
Utilization category (IEC60947-2 Breaker)	Cat.A
Utilization category (IEC60947-4 Motor starter)	AC-3
Function	Overload protection, Phase failure function
	Trip indicating function
	Short circuit protection
Ultimate short-circuit breaking capacity (I _{cu})	100kA at 220V/240V/230V
	50kA at 415V/400V
	40kA at 460V/440V
	12kA at 525V/500V
Rated service short-circuit breaking capacity (I _{cs})	6kA at 690V/600V
	100kA at 220V/240V/230V
	38kA at 415V/400V
	30kA at 460V/440V
	9kA at 525V/500V
Switching of standard three-phase motors (AC-2, AC-3)	5kA at 690V/600V
	15kW at 230V/240V
	30kW at 400V/415V
	37kW at 500V
	55kW at 690V
	No back up fuse required
	160kA at 400V/415V

Back-up fuses (gG, gL, only if Icc>Icu)	160kA at 440V/460V
	100kA at 500V
	80kA at 690V
Wire Single-core [mm]/[AWG]	2.5~70 / 12~2/0 at 1 conductor
	2.5~50 / 12~1/0 at 2 conductors
Wire Stranded [mm]/[AWG]	2.5~70 / 12~2/0 at 1 conductor
	2.5~50 / 12~1/0 at 2 conductors
Wire Flexible [mm]/[AWG]	2.5~50 / 12~1/0 at 1 conductor
	2.5~35 / 10~2 at 2 conductors
Tightening torque [Nm]/[lb-in]	4~6 / 35~53

Environment

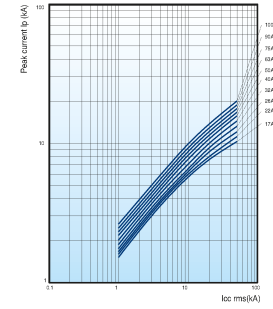
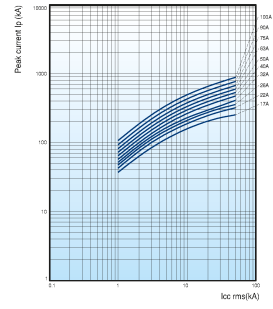
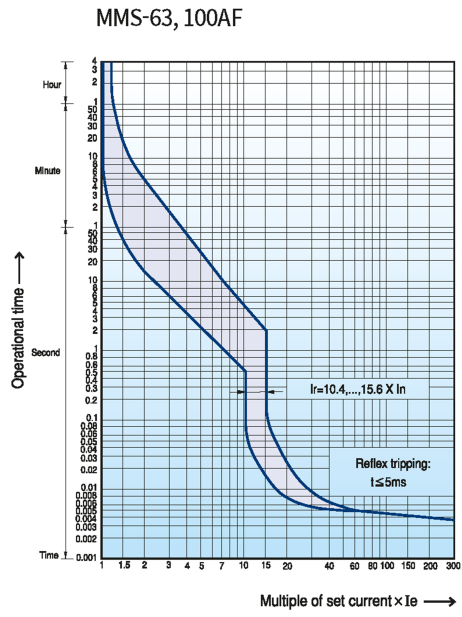
Degree of Protection	IP20
Ambient air temperature	-50°C ~ +80°C at storage
	-20°C ~ +60°C at operation
Ambient temperature compensation	-5°C ~ +40°C
Maximum operating altitude	2,000m
Shock resistance	25g
Vibration resistance	5~15Hz
REACH	Yes
RoHS	Yes
WEEE	Yes

Dimensions

Weight	4.85lbs / 2.2kg
Size width	2.76inch / 70mm
Size height	6.5inch / 165mm
Size depth	6.73inch / 171mm

Characteristic Curves (including Thermal limit on short circuit for MMS)

MMS-100S/H/HI



LS ELECTRIC