ABILITY
Technical Datasheet

MMS-100S

LS ELECTRIC — Manual Motor Starter (Metasol MMS)



GENERAL	
Product code	**0707100141**
Product description	**MMS-100S 17A METASOL DIAL COVER EXP**
Product type	**Metasol Manual Motor Starter**
Product name	**MMS-100S**
Type	**Current adjustable type**
Breaking capacity	**Standard**
Rated operational current (Ie)	**17A**
Thermal release Adjustment range (A)	**11-17**
Type of terminal	**Lug**
Handle type	**Rotary**
Local/Export	**Export**
Standards	**IEC 60947-4-1, IEC 60947-2, UL508**
Certificates	**CE, UL, CCC**
Certificates	**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 Ie 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**
Function	**Trip indicating function**
Function	**Short circuit protection**
Ultimate short-circuit breaking capacity (Icu)	**100kA at 220V/240V/230V**
Ultimate short-circuit breaking capacity (Icu)	**50kA at 415V/400V**
Ultimate short-circuit breaking capacity (Icu)	**40kA at 460V/440V**
Ultimate short-circuit breaking capacity (Icu)	**25kA at 525V/500V**
Ultimate short-circuit breaking capacity (Icu)	**10kA at 690V/600V**
Rated service short-circuit breaking capacity (Ics)	**100kA at 220V/240V/230V**
Rated service short-circuit breaking capacity (Ics)	**38kA at 415V/400V**
Rated service short-circuit breaking capacity (Ics)	**30kA at 460V/440V**

Rated service short-circuit breaking capacity (Ics)	**19kA at 525V/500V**
Rated service short-circuit breaking capacity (Ics)	**8kA at 690V/600V**
Switching of standard three-phase motors (AC-2, AC-3)	**3.7/4kW at 230V/240V**
Switching of standard three-phase motors (AC-2, AC-3)	**7.5kW at 400V/415V**
Switching of standard three-phase motors (AC-2, AC-3)	**11kW at 500V**
Switching of standard three-phase motors (AC-2, AC-3)	**11kW at 690V**
Back-up fuses (gG, gL, only if Icc>Icu)	**No back up fuse required**
Back-up fuses (gG, gL, only if Icc>Icu)	**100kA at 400V/415V**
Back-up fuses (gG, gL, only if Icc>Icu)	**100kA at 440V/460V**
Back-up fuses (gG, gL, only if Icc>Icu)	**100kA at 500V**
Back-up fuses (gG, gL, only if Icc>Icu)	**63kA at 690V**
Wire Single-core [㎟]/[AWG]	**2.5~70 / 12~2/0 at 1 conductor**
Wire Single-core [㎟]/[AWG]	**2.5~50 / 12~1/0 at 2 conductors**
Wire Stranded [㎟]/[AWG]	**2.5~70 / 12~2/0 at 1 conductor**
Wire Stranded [㎟]/[AWG]	**2.5~50 / 12~1/0 at 2 conductors**
Wire Flexible [㎟]/[AWG]	**2.5~50 / 12~1/0 at 1 conductor**
Wire Flexible [㎟]/[AWG]	**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**
Ambient air temperature	**-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 (kg)	**2.2**
Size width	**70mm / 2.76inch**
Size height	**171mm / 6.73inch**
Size depth	**165mm / 6.5inch**
Drawing	**MMS 100S-01.jpg**
CHARACTERISTIC CURVES (INCLUDING THERMAL LIMIT ON SHORT CIRCUIT FOR MMS)	
Tripping curve	**MMS-100AF-horz.png**