**ABILITY**
Technical Datasheet

# MMS-63S

LS ELECTRIC — Manual Motor Starter (Metasol MMS)



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| **GENERAL** | |
| Product code | **0706100141** |
| Product description | **MMS-63S 10A METASOL DIAL COVER EXP** |
| Product type | **Metasol Manual Motor Starter** |
| Product name | **MMS-63S** |
| Type | **Current adjustable type** |
| Breaking capacity | **Standard** |
| Rated operational current (Ie) | **10A** |
| Thermal release Adjustment range (A) | **6-10** |
| 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) | **100kA at 415V/400V** |
| Ultimate short-circuit breaking capacity (Icu) | **15kA at 460V/440V** |
| Ultimate short-circuit breaking capacity (Icu) | **10kA at 525V/500V** |
| Ultimate short-circuit breaking capacity (Icu) | **4kA at 690V/600V** |
| Rated service short-circuit breaking capacity (Ics) | **100kA at 220V/240V/230V** |
| Rated service short-circuit breaking capacity (Ics) | **100kA at 415V/400V** |
| Rated service short-circuit breaking capacity (Ics) | **12kA at 460V/440V** |

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| Rated service short-circuit breaking capacity (Ics) | **8kA at 525V/500V** |
| Rated service short-circuit breaking capacity (Ics) | **3kA at 690V/600V** |
| Switching of standard three-phase motors (AC-2, AC-3) | **2.2/3kW at 230V/240V** |
| Switching of standard three-phase motors (AC-2, AC-3) | **3.7/4kW at 400V/415V** |
| Switching of standard three-phase motors (AC-2, AC-3) | **4/5.5kW at 500V** |
| Switching of standard three-phase motors (AC-2, AC-3) | **7.5kW 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) | **No back up fuse required** |
| Back-up fuses (gG, gL, only if Icc>Icu) | **80kA at 440V/460V** |
| Back-up fuses (gG, gL, only if Icc>Icu) | **80kA at 500V** |
| Back-up fuses (gG, gL, only if Icc>Icu) | **63kA at 690V** |
| Wire Single-core [㎟]/[AWG] | **0.75~35 / 18~2 at 1 conductor** |
| Wire Single-core [㎟]/[AWG] | **0.75~25 / 18~4 at 2 conductors** |
| Wire Stranded [㎟]/[AWG] | **0.75~35 / 18~2 at 1 conductor** |
| Wire Stranded [㎟]/[AWG] | **0.75~25 / 18~4 at 2 conductors** |
| Wire Flexible [㎟]/[AWG] | **0.75~25 / 18~4 at 1 conductor** |
| Wire Flexible [㎟]/[AWG] | **0.75~16 / 18~6 at 2 conductors** |
| Tightening torque [Nm]/[lb-in] | **3~4.5 / 26~39** |
| **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) | **1** |
| Size width | **55mm / 2.17inch** |
| Size height | **144.6mm / 5.69inch** |
| Size depth | **140mm / 5.51inch** |
| Drawing | **MMS 63S-01.jpg** |
| **CHARACTERISTIC CURVES (INCLUDING THERMAL LIMIT ON SHORT CIRCUIT FOR MMS)** | |
| Tripping curve | **MMS-63AF-horz.png** |