## Eaton 103000

Eaton Moeller® series MSC-R Reversing starter, 380 V 400 V 415 V: 0.25 kW, Ir= 0.63 - 1 A, 24 V DC, DC voltage MSC-R-1-M7(24VDC)/BBA

PRODUCT NAME	Eaton Moeller® series MSC-R Reversing starter
CATALOG NUMBER	103000
PRODUCT LENGTH/DEPTH	200 mm
PRODUCT HEIGHT	153 mm
PRODUCT WIDTH	90 mm
PRODUCT WEIGHT	1.63 kg
CERTIFICATIONS	CSA-C22.2 No. 14 (on request) UL File No.: E123500 CE UL 508 (on request) CSA Class No.: 3211-04 IEC/EN 60947-4-1 CSA-C22.2 No. 14-10 UL60947-4-1A UL Category Control No.: NKJH CSA UL CSA File No.: 012528



TYPE  10.10 TEMPERATURE RISE  10.11 SHORT-CIRCUIT RATING  10.12 ELECTROMAGNETIC COMPATIBILITY  10.13 MECHANICAL FUNCTION  10.2.2 CORROSION RESISTANCE  10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES  10.2.3.2 VERIFICATION OF INSULATING MATERIALS TO NORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  10.2.5 LIFTING  Starter with Bi-Metal release  The panel builder is responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.		
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standard's requirements.		entire switchgear needs to
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	10.3 DEGREE OF	Does not apply, since the

<u>IL03402015Z</u> <u>IL03402006Z</u>
eaton-manual-motor- starters-starter-msc-r- reversing-starter-wiring- diagram.eps
eaton-msfs-motor-starter- feeder-system-brochure- br034005en-en-us.pdf
eaton-manual-motor- starters-busbar-msc-r- reversing-starter- dimensions-002.eps

PROTECTION OF ASSEMBLIES	entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Short-circuit release
POLLUTION DEGREE	3
POLLUTION DEGREE CLASS	3 CLASS 10 A
	<del>-</del>
CLASS  CONNECTION TO	CLASS 10 A
CLASS  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE	CLASS 10 A
CLASS  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	CLASS 10 A  No  6000 V AC
CLASS  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  MODEL	CLASS 10 A  No  6000 V AC  IEC/UL starter
CLASS  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  MODEL  ALTITUDE  ELECTRICAL CONNECTION TYPE OF	CLASS 10 A  No  6000 V AC  IEC/UL starter  Max. 2000 m
CLASS  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  MODEL  ALTITUDE  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	CLASS 10 A  No  6000 V AC  IEC/UL starter  Max. 2000 m  Screw connection
CLASS  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  MODEL  ALTITUDE  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  VOLTAGE TYPE	CLASS 10 A  No  6000 V AC  IEC/UL starter  Max. 2000 m  Screw connection  DC  Mounting on Busbar 60
CLASS  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  MODEL  ALTITUDE  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  VOLTAGE TYPE  MOUNTING METHOD  OVERVOLTAGE	CLASS 10 A  No  6000 V AC  IEC/UL starter  Max. 2000 m  Screw connection  DC  Mounting on Busbar 60 mm
CLASS  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  MODEL  ALTITUDE  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  VOLTAGE TYPE  MOUNTING METHOD  OVERVOLTAGE CATEGORY	CLASS 10 A  No  6000 V AC  IEC/UL starter  Max. 2000 m  Screw connection  DC  Mounting on Busbar 60 mm  III

POWER CONSUMPTION (SEALING) AT DC	3 W
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V	50000 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V	50000 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 480 Y/277 V	0 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 600 Y/347 V	0 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	1 A
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
RATED OPERATIONAL CURRENT (IE)	0.8 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1 A

RATED OPERATIONAL VOLTAGE	230 - 415 V AC
SUITABLE FOR	Also motors with efficiency class IE3
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
COORDINATION TYPE	2
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	5.7 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1.9 W
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF COMMAND POSITIONS	0
NUMBER OF PILOT LIGHTS	0
OVERLOAD RELEASE CURRENT SETTING - MAX	1 A
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	0.12 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	0.25 kW
RATED POWER AT 460 V, 60 HZ, 3-PHASE	0 kW
RATED POWER AT 575 V, 60 HZ, 3-PHASE	0 kW
SHORT-CIRCUIT RELEASE (IRM) - MAX	15.5 A
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	2.6 W
COORDINATION CLASS (IEC 60947-4-3)	Class 2
DEGREE OF PROTECTION	IP20

	NEMA Other
ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection
ACTUATING VOLTAGE	24 V DC
POWER CONSUMPTION	2.6 W

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
:



Eaton House 30 Pembroke Road Dublin 4, Eaton.com



information.





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