

Specifications



Photo is representative



Eaton 199601

Eaton Moeller® series MSC-R Reversing starter, 380 V 400 V 415 V: 2.2 kW, $I_r = 4 - 6.3$ A, 24 V DC, DC voltage, Push in terminals

General specifications

PRODUCT NAME	Eaton Moeller® series MSC-R Reversing starter
CATALOG NUMBER	199601
MODEL CODE	MSC-R-6,3-M7(24VDC)-PI
EAN	4015081983025
PRODUCT LENGTH/DEPTH	95 mm
PRODUCT HEIGHT	197 mm
PRODUCT WIDTH	90 mm
PRODUCT WEIGHT	1.019 kg
CERTIFICATIONS	IEC/EN 60947-4-1 VDE 0660
CATALOG NOTES	Also suitable for motors with efficiency class IE3.



Powering Business Worldwide

Climatic environmental conditions

ALTITUDE	Max. 2000 m
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C

Design verification

10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION	Does not apply, since the

AGAINST ELECTRIC SHOCK	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	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.

Electrical rating	
RATED OPERATIONAL CURRENT (IE)	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	6.3 A
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	1.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	2.2 kW
RATED OPERATIONAL VOLTAGE	230 - 415 V AC

Features & functions	
FITTED WITH:	Short-circuit release
FUNCTIONS	Temperature compensated overload protection

General information

CLASS	CLASS 10 A
CONNECTION	Push in terminals
CONNECTION TO SMARTWIRE-DT	No
COORDINATION TYPE	2
DEGREE OF PROTECTION	IP20 NEMA Other
MODEL	IEC/UL starter
MOUNTING METHOD	DIN rail
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
OVERLOAD RELEASE CURRENT SETTING - MAX	6.3 A
OVERLOAD RELEASE CURRENT SETTING - MIN	4 A
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
SUITABLE FOR	Also motors with efficiency class IE3
TYPE	Starter with Bi-Metal release
VOLTAGE TYPE	DC

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V	50 A
SHORT-CIRCUIT RELEASE (IRM) - MAX	97.7 A

Magnet system

POWER CONSUMPTION (SEALING) AT DC	3 W
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V

Resources

BROCHURES	eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf
CATALOGUES	Product Range Catalog Switching and protecting motors eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

DECLARATIONS OF CONFORMITY	eaton-reversing-starter-declaration-of-conformity-uk251158en.pdf eaton-reversing-starter-declaration-of-conformity-eu250675en.pdf
DRAWINGS	eaton-reversing-starters-motorstarter-msc-r-reversing-starter-dimensions.eps
ECAD MODEL	ETN.199601.edz
INSTALLATION INSTRUCTIONS	eaton-push-in-rev-starter-msc-r-up-to-12a-il034105zu.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	eaton-iec-motor-starter-electronic-overload-mcad-3d-models-msc-r-bg1-pi.stp eaton-motor-starter-mcad-drawings-msc-r-bg1-pi.dwg
SALES NOTES	eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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