

Specifications



Photo is representative



Eaton 283175

Eaton Moeller® series MSC-R Reversing starter, 380 V 400 V 415 V: 0.25 kW, $I_r = 0.63 - 1$ A, 230 V 50 Hz, 240 V 60 Hz, AC voltage MSC-R-1-M7(230V50HZ)

General specifications

PRODUCT NAME	Eaton Moeller® series MSC-R Reversing starter
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CATALOG NUMBER	283175
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MODEL CODE	MSC-R-1-M7(230V50HZ)
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EAN	4015082831752
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PRODUCT LENGTH/DEPTH	185 mm
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PRODUCT HEIGHT	95 mm
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PRODUCT WIDTH	90 mm
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PRODUCT WEIGHT	0.89 kg
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CERTIFICATIONS	CSA-C22.2 No. 14 (on request) IEC/EN 60947-4-1 CSA File No.: 012528 CE CSA CSA-C22.2 No. 14-10 UL UL60947-4-1A CSA Class No.: 3211-24 UL 508 (on request) UL Category Control No.: NKJH UL File No.: E123500
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Features & Functions

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

Climatic environmental conditions

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

General

CLASS	CLASS 10 A
CONNECTION	Screw 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 - MIN	0.63 A
OVERLOAD RELEASE CURRENT SETTING - MAX	1 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	AC

Electrical rating

RATED OPERATIONAL CURRENT (IE)	0.8 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	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 OPERATIONAL	230 - 415 V AC

Short-circuit rating

**RATED CONDITIONAL
SHORT-CIRCUIT CURRENT
(IQ), TYPE 2, 380 V, 400 V,
415 V** 50000 A

**SHORT-CIRCUIT RELEASE
(IRM) - MAX** 15.5 A

VOLTAGE

**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)** P300, DC operated
(UL/CSA)
A600, AC operated
(UL/CSA)

Magnet system

**POWER CONSUMPTION,
SEALING, 50 HZ** 1.2 W, Dual-frequency coil
in a cold state and 1.0 x
Us, at 50 Hz

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 50
HZ - MIN** 230 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 50
HZ - MAX** 230 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 60
HZ - MIN** 0 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 60
HZ - MAX** 0 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT DC -
MIN** 0 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT DC -
MAX** 0 V

Design verification

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
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	1.4 W
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 AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.

Resources

BROCHURES	eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf eaton-motor-starters-system-xstart-brochure-br03407001en-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-manual-motor-starters-starter-msc-r-reversing-starter-dimensions.eps eaton-manual-motor-starters-mounting-msc-r-reversing-starter-3d-drawing.eps eaton-general-ie-ready-dilm-contactor-standards.eps
ECAD MODEL	ETN.283175.edz
INSTALLATION INSTRUCTIONS	IL03402006Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CS-msc_r_bg1 DA-CD-msc_r_bg1
SALES NOTES	eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf
WIRING DIAGRAMS	eaton-manual-motor-starters-starter-msc-r-reversing-starter-wiring-diagram.eps

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.
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.

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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