Specifications



Photo is representative





Eaton 188280

Eaton Moeller® series MSC-DM DOL starter, 380 V 400 V 415 V: 0.09 kW, Ir=0.25 - 0.4 A, 230 V 50 Hz, 240 V 60 Hz, Alternating voltage

General specifications	
PRODUCT NAME	Eaton Moeller® series MSC-DM DOL starter
CATALOG NUMBER	188280
MODEL CODE	MSC-DM-0,4- M7(230V50HZ)
EAN	4015081861651
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	170 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.546 kg
CERTIFICATIONS	UL60947-4-1A CSA-C22.2 No. 14-10 CSA UL Category Control No.: NKJH UL CE CSA Class No.: 3211-04 IEC/EN 60947-4-1 CSA File No.: 012528 VDE 0660 UL File No.: E123500



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

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)	1
OVERLOAD RELEASE CURRENT SETTING - MIN	0.25 A
OVERLOAD RELEASE CURRENT SETTING - MAX	0.4 A
OVERVOLTAGE CATEGORY	Ш
POLLUTION DEGREE	3
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
SUITABLE FOR	Also motors with efficiency class IE3
ТҮРЕ	Starter with Bi-Metal release
VOLTAGE TYPE	AC

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

Electrical rating	
RATED OPERATIONAL CURRENT (IE)	0.31 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	0.4 A
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	0.06 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	0.09 kW
RATED OPERATIONAL	230 - 415 V AC

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)

Short-circuit rating	
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V	50000 A
SHORT-CIRCUIT RELEASE (IRM) - MAX	6.2 A

Magnet system	
POWER CONSUMPTION, SEALING, 50 HZ	1.4 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	
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.
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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls 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	Is the panel builder's responsibility.

Resources	
BROCHURES	eaton-motor-starters- system-xstart-brochure- br03407001en-en-us.pdf eaton-msfs-motor-starter- feeder-system-brochure-
	br034005en-en-us.pdf
CATALOGUES	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
	Product Range Catalog Switching and protecting motors
DECLARATIONS OF CONFORMITY	eaton-dol-starter- declaration-of-conformity- uk251157en.pdf
	eaton-dol-starter- declaration-of-conformity- eu250674en.pdf
DRAWINGS	eaton-manual-motor- starters-msc-d-dol-starter- dimensions-002.eps
	eaton-manual-motor- starters-msc-d-dol-starter- 3d-drawing-002.eps
	eaton-manual-motor- starters-mounting-msc-d- dol-starter-3d-drawing.eps
	eaton-general-ie-ready- dilm-contactor- standards.eps
ECAD MODEL	ETN.188280.edz
INSTALLATION INSTRUCTIONS	<u>IL034030ZU</u>
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CS-msc dm DA-CD-msc dm
SALES NOTES	eaton-link-module-for- motor-starters-pkz-flyer- fl034003en-en-us.pdf
WIRING DIAGRAMS	eaton-manual-motor- starters-device-msc-d-dol- starter-wiring-diagram.eps

INSULATING MATERIAL	
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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