Specifications







Eaton 100414

Eaton Moeller® series MSC-D DOL starter, 380 V 400 V 415 V: 7.5 kW, Ir= 10 - 16 A, 230 V 50 Hz, 240 V 60 Hz, AC MSC-D-16-M15(230V50HZ)

General specifications	
PRODUCT NAME	Eaton Moeller® series MSC-D DOL starter
CATALOG NUMBER	100414
MODEL CODE	MSC-D-16-M15(230V50HZ)
EAN	4015081003914
PRODUCT LENGTH/DEPTH	95 mm
PRODUCT HEIGHT	180 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.589 kg
CERTIFICATIONS	CSA UL CE IEC/EN 60947-4-1 UL Category Control No.: NLRV CSA Class No.: 3211-24 CSA File No.: 012528 UL 60947-4-1 UL File No.: E36332 VDE 0660 CSA-C22.2 No. 60947-4-1-14
CATALOG NOTES	Not suitable for motors with efficiency class IE3.
GLOBAL CATALOG	100414
PRODUCT TYPE	DOL starter

Product specifications

TYPE	Starter with Bi-Metal release
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 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	Is the panel builder's responsibility.

Resources

BROCHURES	eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf
CATALOGS	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-dol-starter-declaration-of-conformity-eu250673en.pdf eaton-dol-starter-declaration-of-conformity-uk251156en.pdf
DRAWINGS	eaton-manual-motor-starters-motorstarter-msc-d-dol-starter-dimensions.eps eaton-manual-motor-starters-mounting-msc-d-dol-starter-3d-drawing.eps
ECAD MODEL	ETN.100414.edz
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	eaton-motor-starter-mcad-drawings-msc-d-bg1.dwg eaton-motor-starter-mcad-drawings-msc-d-bg2.dwg DA-CS-msc_d_bg1
SALES NOTES	eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 100414
WIRING DIAGRAMS	eaton-manual-motor-starters-device-msc-d-dol-starter-wiring-diagram.eps

CONDUCTORS	
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.
FITTED WITH:	Short-circuit release
POLLUTION DEGREE	3
CLASS	CLASS 10 A
CONNECTION TO SMARTWIRE-DT	No
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
MODEL	IEC starter
ALTITUDE	Max. 2000 m
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
VOLTAGE TYPE	AC
MOUNTING METHOD	DIN rail
OVERVOLTAGE CATEGORY	III
CONNECTION	Screw terminals
FUNCTIONS	Temperature compensated overload protection
OVERLOAD RELEASE CURRENT SETTING - MIN	10 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V	50 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	230 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	230 V
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	15 A
POWER CONSUMPTION, SEALING, 50 HZ	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
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)
RATED OPERATIONAL CURRENT (IE)	15.2 A
RATED OPERATIONAL CURRENT FOR	15.5 A

SPECIFIED HEAT DISSIPATION (IN)	
RATED OPERATIONAL VOLTAGE	230 - 415 V AC
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
COORDINATION TYPE	1
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	10.5 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	3.5 W
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF COMMAND POSITIONS	0
NUMBER OF PILOT LIGHTS	0
OVERLOAD RELEASE CURRENT SETTING - MAX	16 A
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	7.5 kW
SHORT-CIRCUIT RELEASE (IRM) - MAX	248 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	1.4 W
COORDINATION CLASS (IEC 60947-4-3)	Class 1
DEGREE OF PROTECTION	IP20 NEMA Other
ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection
ACTUATING VOLTAGE	230 V 50 Hz 240 V 60 Hz
POWER CONSUMPTION	1.4 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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