Specifications







Eaton 121757

Eaton Moeller® series MSC-DEA DOL starter, 380 V 400 V 415 V: 5.5 kW, 100 kA, Ir: 3 - 12 A, Connection to SmartWire-DT: yes, 24 V DC, DC, Screw terminals

General specifications	
PRODUCT NAME	Eaton Moeller® series MSC-DEA DOL starter
CATALOG NUMBER	121757
MODEL CODE	MSC-DEA-12-M12(24VDC)
EAN	4015081195671
PRODUCT LENGTH/DEPTH	102 mm
PRODUCT HEIGHT	198 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.78 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947-4-1
GLOBAL CATALOG	121757



Product specifications	S
ТҮРЕ	Starter with electronic trip unit
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	Does not apply, since the
PROTECTION OF ASSEMBLIES	entire switchgear needs to be evaluated.

Resources	
BROCHURES Egine	aton-motor-starters- ystem-xstart-brochure- ir03407001en-en-us.pdf aton-msfs-motor-starter- eeder-system-brochure- ir034005en-en-us.pdf
CATALOGS CATALOGS	witching and protecting notors aton-product-overview-pr-machinery-catalogue-a08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY e.d.	aton-dol-starter- leclaration-of-conformity- u250679en.pdf aton-dol-starter- leclaration-of-conformity- k251162en.pdf
DRAWINGS eg ssi d g ssi eg ssi ssi eg ssi ssi ssi eg d d	aton-manual-motor- tarters-starter-msc-d-dol- tarter-dimensions- 02.eps aton-manual-motor- tarters-mounting-msc-d- lol-starter-3d-drawing.eps aton-manual-motor- tarters-starter-msc-d-dol- tarter-3d-drawing.eps aton-general-ie-ready- illm-contactor- tandards.eps
ECAD MODEL <u>E</u>	TN.121757.edz
INSTALLATION INSTRUCTIONS	_034038ZU
	VIN-WIN with push-in echnology
MCAD MODEL	0A-CD-msc de bg1 0A-CS-msc de bg1
SALES NOTES <u>m</u>	aton-link-module-for- notor-starters-pkz-flyer- 034003en-en-us.pdf
WIRING DIAGRAMS <u>S1</u>	aton-manual-motor- tarters-msc-d-dol-starter- viring-diagram.eps

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.
ls the panel builder's responsibility.
Short-circuit release
3
Adjustable
In conjunction with PKE- SWD-32 SmartWire DT PKE module Yes
6000 V AC
IEC starter
Max. 2000 m
Screw connection
DC
DIN rail
500 (Class 5) AC-4 cycle operation, Main conducting paths For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cutout periods. 1000 (Class 20) AC-4 cycle operation, Main conducting paths Note: Going below the minimum current flow

	overheating of the load (motor). 700 (Class 10) AC-4 cycle operation, Main conducting paths 900 (Class 15) AC-4 cycle operation, Main conducting paths
OVERVOLTAGE CATEGORY	Ш
CONNECTION	Screw terminals
CUT-OUT PERIODS - MIN	≤ 500 ms, main conducting paths, AC-4 cycle operation
FUNCTIONS	Temperature compensated overload protection
OVERLOAD RELEASE CURRENT SETTING - MIN	3 A
POWER CONSUMPTION (SEALING) AT DC	2.6 W
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V	0 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V	100 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 -	24 V

MIN	_
RATED OPERATIONAL	
CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	12 A
PROTOCOL	Other bus systems
RATED OPERATIONAL CURRENT (IE)	11.3 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	12 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	1
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	4.5 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1.5 W
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF COMMAND POSITIONS	0
NUMBER OF PILOT LIGHTS	0
OVERLOAD RELEASE CURRENT SETTING - MAX	12 A
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	5.5 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	186 A
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STATIC HEAT DISSIPATION, NON-2.6 W **CURRENT-DEPENDENT PVS COORDINATION CLASS** Class 1 (IEC 60947-4-3) IP20 **DEGREE OF PROTECTION NEMA Other ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND** Screw connection **CONTROL-CURRENT CIRCUIT ACTUATING VOLTAGE** 24 V DC

4.5 W

POWER CONSUMPTION

PROJECT NAME: PROJECT NUMBER: PREPARED BY: DATE:



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