

## Eaton 199581

Eaton Moeller® series MSC-D DOL starter,  
380 V 400 V 415 V: 5.5 kW, Ir= 8 - 12 A, 24 V  
DC, DC, Push in terminals

PRODUCT NAME	Eaton Moeller® series MSC-D DOL starter
CATALOG NUMBER	199581
PRODUCT LENGTH/DEPTH	95 mm
PRODUCT HEIGHT	197 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.676 kg
CERTIFICATIONS	IEC/EN 60947-4-1 VDE 0660
CATALOG NOTES	Also suitable for motors with efficiency class IE3.

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

<b>MCAD MODEL</b>	<a href="#">msc_d_bg1_pi.dwg</a>
	<a href="#">eaton-iec-motor-starter-electronic-overload-mcad-3d-models-msc-d-bg1-pi.stp</a>
	<a href="#">eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf</a>
<a href="#">eaton-manual-motor-starters-motortarter-msc-d-dol-starter-dimensions.eps</a>	

<b>PROTECTION OF ASSEMBLIES</b>	entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>FITTED WITH:</b>	Short-circuit release
<b>POLLUTION DEGREE</b>	3
<b>CLASS</b>	CLASS 10 A
<b>CONNECTION TO SMARTWIRE-DT</b>	No
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC
<b>MODEL</b>	IEC/UL starter
<b>ALTITUDE</b>	Max. 2000 m
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Spring clamp connection
<b>VOLTAGE TYPE</b>	DC
<b>MOUNTING METHOD</b>	DIN rail
<b>OVERVOLTAGE CATEGORY</b>	III
<b>CONNECTION</b>	Push in terminals
<b>FUNCTIONS</b>	Temperature compensated overload protection
<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	8 A
<b>POWER CONSUMPTION</b>	2.6 W

<b>(SEALING) AT DC</b>	
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V</b>	0 A
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V</b>	50000 A
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 480 Y/277 V</b>	0 A
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 600 Y/347 V</b>	0 A
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	24 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	24 V
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	12 A
<b>RATED OPERATIONAL CURRENT (IE)</b>	11.3 A
<b>RATED OPERATIONAL VOLTAGE</b>	230 - 415 V AC
<b>SUITABLE FOR</b>	Also motors with efficiency class IE3
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	55 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>COORDINATION TYPE</b>	1
<b>NUMBER OF AUXILIARY</b>	0

<b>CONTACTS (NORMALLY CLOSED CONTACTS)</b>	
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>NUMBER OF COMMAND POSITIONS</b>	0
<b>NUMBER OF PILOT LIGHTS</b>	0
<b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	12 A
<b>RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ</b>	3 kW
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	5.5 kW
<b>RATED POWER AT 460 V, 60 HZ, 3-PHASE</b>	0 kW
<b>RATED POWER AT 575 V, 60 HZ, 3-PHASE</b>	0 kW
<b>SHORT-CIRCUIT RELEASE (IRM) - MAX</b>	186 A
<b>COORDINATION CLASS (IEC 60947-4-3)</b>	Class 1
<b>DEGREE OF PROTECTION</b>	IP20 NEMA Other
<b>ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT</b>	Spring clamp connection
<b>ACTUATING VOLTAGE</b>	24 V DC
<b>POWER CONSUMPTION</b>	2.6 W

<b>PROJECT NAME:</b>
<b>PROJECT NUMBER:</b>
<b>PREPARED BY:</b>
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