

Specifications



Eaton 191001

Eaton Moeller® series DILMT Contactor, 3 pole, 380 V 400 V: 22 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals

General specifications

PRODUCT NAME	Eaton Moeller® series DILMT Contactor
CATALOG NUMBER	191001
MODEL CODE	DILMT50(230V50HZ/240V60HZ)
EAN	4015081912247
PRODUCT LENGTH/DEPTH	108.1 mm
PRODUCT HEIGHT	103.6 mm
PRODUCT WIDTH	55 mm
PRODUCT WEIGHT	0.776 kg
CERTIFICATIONS	EN 60335-1 GB14048 IEC/EN 60947
CATALOG NOTES	Not suitable for motors with efficiency class IE3.



Powering Business Worldwide

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	55 °C
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AMBIENT STORAGE TEMPERATURE - MAX	80 °C
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AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
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CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
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Electrical rating

RATED BREAKING CAPACITY AT 380/400 V	400 A
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RATED INSULATION VOLTAGE (UI)	690 V
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RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	70 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	50 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	50 A
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RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	22 kW
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RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	30 kW
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RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
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Contacts

NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
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NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
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Features & functions

NUMBER OF POLES	Three-pole
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General information

APPLICATION	Contactors for Motors
CONNECTION TO SMARTWIRE-DT	No
DEGREE OF PROTECTION	IP20
FRAME SIZE	FS3
LIFESPAN, MECHANICAL	5,000,000 Operations (AC operated)
OPERATING FREQUENCY	3600 mechanical Operations/h (AC operated)
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Contactors
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
USED WITH	DILMT95-XHI11-SR and DILT-XHI01(10)
UTILIZATION CATEGORY	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching
VOLTAGE TYPE	AC

Magnet system

PICK-UP VOLTAGE	0.85 - 1.1 V AC x U _c
POWER CONSUMPTION, PICK-UP, 50 HZ	0 VA, Dual-frequency coil in a cold state and 1.0 x U _s 220 VA, Dual-frequency coil in a cold state and 1.0 x U _s
POWER CONSUMPTION, PICK-UP, 60 HZ	0 VA, Dual-frequency coil in a cold state and 1.0 x U _s 220 VA, Dual-frequency coil in a cold state and 1.0 x U _s
POWER CONSUMPTION, SEALING, 50 HZ	22 W, Dual-frequency coil in a cold state and 1.0 x U _s 0 W, Dual-frequency coil in a cold state and 1.0 x U _s
POWER CONSUMPTION, SEALING, 60 HZ	5 W, Dual-frequency coil in a cold state and 1.0 x U _s 0 VA, Dual-frequency coil in a cold state and 1.0 x U _s , at 60 Hz 0 W, Dual-frequency coil in a cold state and 1.0 x U _s 20 VA, Dual-frequency coil in a cold state and 1.0 x U _s , at 60 Hz
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 CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	240 V

Terminal capacities

SCREW SIZE	M6, Terminal screw M3.5, Terminal screw
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 2, Terminal screw, Control circuit cables, Pozidriv screwdriver
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	14 mm
STRIPPING LENGTH (MAIN CABLE)	14 mm
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ² 1 x (2.5 - 25) mm ² , Main cables 2 x (2.5 - 16) mm ² , Main cables
TERMINAL CAPACITY (STRANDED)	1 x (2.5 - 25) mm ² 2 x (2.5 - 16) mm ²
TIGHTENING TORQUE	1.2 Nm, Screw terminals 2.5 Nm

Resources

BROCHURES	eaton-dilat-dilmt-contactors-zbt-motor-protection-relay-brochure-br034003en-en-us.pdf eaton-powerxl-variable-frequency-drives-hvac-brochure-br040012en-en-us.pdf
DRAWINGS	eaton-contactors-contactor-dimensions-003.eps eaton-contactors-contactor-dimensions-005.eps eaton-general-mounting-contactor-3d-drawing.eps eaton-contactors-contactor-3d-drawing-002.eps
ECAD MODEL	DA-CE-ETN.DILMT50(230V50HZ_240V60HZ)
INSTALLATION INSTRUCTIONS	IL034051ZU
WIRING DIAGRAMS	eaton-contactors-contact-dilm-wiring-diagram-003.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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