

Specifications



Eaton 190965

Eaton Moeller® series DILMT Contactor, 3 pole, 380 V 400 V: 37 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals

General specifications

PRODUCT NAME	Eaton Moeller® series DILMT Contactor
CATALOG NUMBER	190965
MODEL CODE	DILMT80(230V50HZ/240V60HZ)
EAN	4015081911882
PRODUCT LENGTH/DEPTH	124.5 mm
PRODUCT HEIGHT	111.5 mm
PRODUCT WIDTH	72 mm
PRODUCT WEIGHT	1.26 kg
CERTIFICATIONS	EN 60335-1 GB14048 IEC/EN 60947
CATALOG NOTES	Not suitable for motors with efficiency class IE3.

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	640 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	110 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	80 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	80 A
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RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	37 kW
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RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	37 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	FS4
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 350 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 350 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 9 VA, 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	0 VA, Dual-frequency coil in a cold state and 1.0 x U _s , at 60 Hz 8 W, Dual-frequency coil in a cold state and 1.0 x U _s 26 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
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	M8, Terminal screw M3.5, Terminal screw 4 mm AF, Hexagon socket-head spanner, Terminal screw
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver
STRIPPING LENGTH (MAIN CABLE)	16 mm
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ² 1 x (6 - 50) mm ² , Main cables 2 x (6 - 25) mm ² , Main cables
TERMINAL CAPACITY (STRANDED)	1 x (6 - 50) mm ² 2 x (6 - 25) mm ² , Main cables
TIGHTENING TORQUE	1.2 Nm, Screw terminals 6 Nm, Screw terminals

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-004.eps eaton-contactors-contactor-dimensions-006.eps eaton-general-mounting-contactor-3d-drawing.eps eaton-contactors-contactor-3d-drawing-003.eps
ECAD MODEL	DA-CE-ETN.DILMT80(230V50HZ_240V60HZ)
INSTALLATION INSTRUCTIONS	IL034052ZU
WIRING DIAGRAMS	eaton-contactors-contact-dilm-wiring-diagram-003.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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