

Specifications



Eaton 190977

Eaton Moeller® series DILMT Contactor, 3 pole, 380 V 400 V: 3 kW, 24 V DC, DC operation, Screw terminals

General specifications

PRODUCT NAME	Eaton Moeller® series DILMT Contactor
CATALOG NUMBER	190977
MODEL CODE	DILMT7(RDC24)
EAN	4015081912001
PRODUCT LENGTH/DEPTH	77.5 mm
PRODUCT HEIGHT	70.1 mm
PRODUCT WIDTH	27 mm
PRODUCT WEIGHT	0.175 kg
CERTIFICATIONS	EN 60335-1 GB14048 IEC/EN 60947
CATALOG NOTES	Also tested according to AC-3e. Also 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	56 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	20 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	7 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	7 A
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RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	3 kW
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RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	660 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

FITTED WITH:	Varistor suppressor circuit
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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	FS1
LIFESPAN, ELECTRICAL	1,000,000 Operations (at 400V, AC-3)
LIFESPAN, MECHANICAL	10,000,000 Operations (DC operated)
OPERATING FREQUENCY	3600 mechanical Operations/h (DC operated)
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Contactors
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
USED WITH	DILT-XHI...
UTILIZATION CATEGORY	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching
VOLTAGE TYPE	DC

Terminal capacities

SCREW SIZE	M3.5, Terminal screw
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 2, Terminal screw, Control circuit cables, Pozidriv screwdriver
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
TERMINAL CAPACITY (STRANDED)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ²
TIGHTENING TORQUE	0.8 Nm, Screw terminals

Magnet system

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX 24 V

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN 24 V

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-002.eps eaton-contactors-contactor-dimensions-007.eps

	eaton-contactors-contactor-3d-drawing.eps eaton-general-mounting-contactor-3d-drawing.eps
ECAD MODEL	DA-CE-ETN.DILMT7(RDC24)
INSTALLATION INSTRUCTIONS	IL034049ZU
WIRING DIAGRAMS	eaton-contactors-contact-dilm-wiring-diagram-003.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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