



## Eaton 190987

Eaton Moeller® series DILMT Contactor, 3 pole, 380 V 400 V: 45 kW, 24 V DC, DC operation, Screw terminals

□□□□

<b>PRODUCT NAME</b>	Eaton Moeller® series DILMT Contactor
<b>CATALOG NUMBER</b>	190987
<b>PRODUCT LENGTH/DEPTH</b>	124.5 mm
<b>PRODUCT HEIGHT</b>	111.5 mm
<b>PRODUCT WIDTH</b>	72 mm
<b>PRODUCT WEIGHT</b>	1.26 kg
<b>CERTIFICATIONS</b>	EN 60335-1 GB14048 IEC/EN 60947
<b>CATALOG NOTES</b>	Not suitable for motors with efficiency class IE3.

## □□□□

USED WITH	DILMT95-XHI11-SR and DILT-XHI01(10)
NUMBER OF POLES	Three-pole
FITTED WITH:	Varistor suppressor circuit
OPERATING FREQUENCY	3600 mechanical Operations/h (DC operated)
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CONNECTION TO SMARTWIRE-DT	No
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
UTILIZATION CATEGORY	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching
FRAME SIZE	FS4
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	40 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	32 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	28 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	22 ms
APPLICATION	Contactors for Motors
PRODUCT CATEGORY	Contactors

## □□

ECAD MODEL	<a href="#">DA-CE-ETN.DILMT95(RDC24)</a>
□□□	<a href="#">eaton-contactors-contact-dilm-wiring-diagram-003.eps</a>
□□□□	<a href="#">eaton-dilat-dilmt-contactors-zbt-motor-protection-relay-brochure-br034003en-en-us.pdf</a>  <a href="#">eaton-powerxl-variable-frequency-drives-hvac-brochure-br040012en-en-us.pdf</a>
□□	<a href="#">eaton-contactors-contactor-dimensions-004.eps</a>  <a href="#">eaton-contactors-contactor-dimensions-006.eps</a>  <a href="#">eaton-contactors-contactor-3d-drawing-003.eps</a>  <a href="#">eaton-general-mounting-contactor-3d-drawing.eps</a>

<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>SCREWDRIVER SIZE</b>	2, Terminal screw, Pozidriv screwdriver
<b>VOLTAGE TYPE</b>	DC
<b>DEGREE OF PROTECTION</b>	IP20
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT</b>	0
<b>NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)</b>	3
<b>RATED BREAKING CAPACITY AT 380/400 V</b>	760 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>OVERVOLTAGE CATEGORY</b>	III
<b>LIFESPAN, MECHANICAL</b>	5,000,000 Operations (DC operated)
<b>SCREW SIZE</b>	M8, Terminal screw M3.5, Terminal screw 4 mm AF, Hexagon socket-head spanner, Terminal screw
<b>TERMINAL CAPACITY (STRANDED)</b>	1 x (6 - 50) mm <sup>2</sup> 2 x (6 - 25) mm <sup>2</sup> , Main cables
<b>TERMINAL CAPACITY (SOLID)</b>	2 x (0.75 - 2.5) mm <sup>2</sup> 1 x (0.75 - 2.5) mm <sup>2</sup> 1 x (6 - 50) mm <sup>2</sup> , Main cables 2 x (6 - 25) mm <sup>2</sup> , Main cables
<b>TIGHTENING TORQUE</b>	1.2 Nm, Screw terminals

<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 INSULATION VOLTAGE (UI)</b>	690 V
<b>RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V</b>	120 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b>	95 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	95 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V</b>	0 A
<b>RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ</b>	30 kW
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	45 kW
<b>RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ</b>	0 kW
<b>RATED OPERATIONAL POWER (NEMA)</b>	0 kW
<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	690 V
<b>STRIPPING LENGTH (MAIN CABLE)</b>	16 mm
<b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V</b>	160 A gG/gL
<b>CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)</b>	120 A
<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	45 kW
<b>ACTUATING VOLTAGE</b>	24 V DC
<b>OPERATING VOLTAGE AT AC, 50 HZ - MIN</b>	24 V
<b>OPERATING VOLTAGE AT AC, 50 HZ - MAX</b>	690 V
<b>OPERATING VOLTAGE AT</b>	24 V

AC, 60 HZ - MIN	
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:



  Eaton House  
30 Pembroke Road  
Dublin 4,    
Eaton.com

© 2025    

Follow us on social media to get the latest product and support information.

