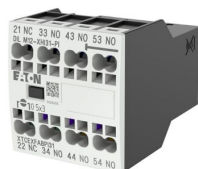


Specifications



Eaton 199459

Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 3 N/O, 1 NC, Front fixing, Push in terminals, DILA, DILM7 - DILM15

General specifications

PRODUCT NAME	Eaton Moeller® series DILM auxiliary contact module
CATALOG NUMBER	199459
MODEL CODE	DILM12-XHI31-PI
EAN	4015081978656
PRODUCT LENGTH/DEPTH	54 mm
PRODUCT HEIGHT	38 mm
PRODUCT WIDTH	36 mm
PRODUCT WEIGHT	0.051 kg
CERTIFICATIONS	IEC/EN 60947 VDE 0660 CSA File No.: 012528 CSA Class No.: 3211-03 UL File No.: E29184 UL 508 CSA-C22.2 No. 14-05 CE marking UL CSA UL Category Control No.: NKCR
CATALOG NOTES	Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified. Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open)

Ambient conditions, mechanical

SHOCK RESISTANCE

7 g, N/O auxiliary contact,
Basic unit with auxiliary
contact module,
Mechanical, according to
IEC/EN 60068-2-27, Half-
sinusoidal shock 10 ms
5 g, N/C auxiliary contact,
Basic unit with auxiliary
contact module,
Mechanical, according to
IEC/EN 60068-2-27, Half-
sinusoidal shock 10 ms

Contacts

CONTROL CIRCUIT RELIABILITY

$\lambda < 5 \times 1/10^7$ (1 failure at
2,000,000 operations for
 $U_e = 24$ V DC, $U_{min} = 17$ V,
 $I_{min} = 5.4$ mA)

NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)

0

NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)

1

NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)

3

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX

60 °C

AMBIENT STORAGE TEMPERATURE - MAX

80 °C

AMBIENT OPERATING TEMPERATURE - MIN

-25 °C

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX

40 °C

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN

-25 °C

AMBIENT STORAGE TEMPERATURE - MIN

-40 °C

CLIMATIC PROOFING

Damp heat, constant, to
IEC 60068-2-78
Damp heat, cyclic, to IEC
60068-2-30

Conventional thermal current I_{th}

CONVENTIONAL THERMAL CURRENT I_{TH} AT 60°C (3-POLE, OPEN)

16 A

CONVENTIONAL THERMAL CURRENT I_{TH} OF AUXILIARY CONTACTS (1-POLE, OPEN)

0.16 A

Electrical rating

RATED INSULATION VOLTAGE (UI)	690 V
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RATED OPERATIONAL CURRENT (IE)	1 A at 220 V, DC L/R $\leq$ 15 ms (with 1 contact in series) 10 A at 24 V, DC L/R $\leq$ 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R $\leq$ 15 ms (with 1 contact in series) 6 A at 60 V, DC L/R $\leq$ 15 ms (with 1 contact in series)
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RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	4 A
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RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	4 A
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RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	1.5 A
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RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V	0.5 A
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RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V	0.25 A
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RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V	2.5 A
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RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	1 A
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RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	500 V
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Features & functions

ELECTRIC CONNECTION TYPE	Push-in connection
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FEATURES	Interlocked opposing contacts within an auxiliary contact module (according to IEC 60947-5-1 Annex L)
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FITTED WITH:	Interlocked opposing contacts
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FUNCTIONS	For standard applications
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NUMBER OF POLES	Four-pole
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General information

CONNECTION	Push in terminals
DEGREE OF PROTECTION	IP20
LIFESPAN, ELECTRICAL	1,300,000 Operations (at 230 V, AC-15, 3 A)
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated) 10,000,000 Operations (DC operated)
MODEL	Top mounting
MOUNTING METHOD	Front fastening
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
TYPE	Front mounting auxiliary contact

Short-circuit rating

SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING	10 A gG/gL, 500 V, Max. Fuse, Contacts
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Safety

SAFE ISOLATION	400 V AC, Between coil and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140
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Switching capacity

SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)

Terminal capacities

TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)	1 x (0.5 - 2.5) mm ² 2 x (0.5 - 2.5) mm ²
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TERMINAL CAPACITY (FLEXIBLE)	1 x (0.5 - 2.5) mm ² 2 x (0.5 - 2.5) mm ²
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TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)	1 x (0.5 - 2.5) mm ² 2 x (0.5 - 2.5) mm ²
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TERMINAL CAPACITY (SOLID)	1 x (0.5 - 2.5) mm ² 2 x (0.5 - 2.5) mm ²
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TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm ² 2 x (0.5 - 1.5) mm ²
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TERMINAL CAPACITY (SOLID/STRANDED AWG)	20 - 14
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Resources

CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
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DECLARATIONS OF CONFORMITY	eaton-accessory-declaration-of-conformity-uk251276en.pdf eaton-accessory-declaration-of-conformity-eu250793en.pdf
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DRAWINGS	eaton-contactors-dimensions-007.eps
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ECAD MODEL	ETN.199459.edz
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INSTALLATION INSTRUCTIONS	eaton-contactors-dila-dilm7-15-dilmp20-il03407013z.pdf eaton-contactors-dila-dilm7-15-dilmp20-push-in-il034108zu.pdf
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INSTALLATION VIDEOS	WIN-WIN with push-in technology
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MCAD MODEL	eaton-contact-blocks-mcad-drawings-dil-a-xhi-4-pi.dwg eaton-contact-blocks-mcad-3d-models-dil-a-xhi-4-pi.stp
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WIRING DIAGRAMS	eaton-contactors-wiring-diagram-2100swi-139.eps
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PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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