

Specifications



Photo is representative



Eaton 199313

Eaton Moeller® series DILA Auxiliary contact module, 2 pole, Ith= 16 A, 2 N/O, Front fixing, Push in terminals, DILA, DILM7 - DILM38

General specifications

PRODUCT NAME	Eaton Moeller® series DILA Accessory Auxiliary contact module
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CATALOG NUMBER	199313
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MODEL CODE	DILA-XHI20-PI
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EAN	4015081973972
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PRODUCT LENGTH/DEPTH	54 mm
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PRODUCT HEIGHT	38 mm
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PRODUCT WIDTH	36 mm
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PRODUCT WEIGHT	0.039 kg
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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.: NKR
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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)
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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

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) 0

NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS) 2

Communication

CONNECTION TYPE Push in terminals

Electrical rating

CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) 16 A

CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN) 0.16 A

RATED INSULATION VOLTAGE (UI) 690 V

RATED OPERATIONAL CURRENT (IE)

10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series)
10 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series)
2.5 A at 24 V, DC L/R ≤ 50 ms (with 3 contacts in series)
0.25 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in series)
1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series)
6 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series)
1 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series)
6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series)
3 A at 110 V, DC L/R ≤ 15 ms

	ms (with 1 contact in series) 5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series) 0.5 A at 110 V, DC L/R ≤ 50 ms (with 3 contacts in series)
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	4 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	4 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	1.5 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V	0.5 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V	0.25 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V	2.5 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	1 A
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	500 V
SAFE ISOLATION	400 V AC, Between auxiliary contacts, According to EN 61140 400 V AC, Between coil and auxiliary contacts, According to EN 61140
SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING	10 A gG/gL, 500 V, Max. Fuse, Contacts
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)

Features & functions

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

General information

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
OPERATING FREQUENCY	9000 Operations/h
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
SHOCK RESISTANCE	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 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
TYPE	Front mounting auxiliary contact

Terminal capacities

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm ² 2 x (0.5 - 1.5) mm ²
TERMINAL CAPACITY (FLEXIBLE)	1 x (0.5 - 2.5) mm ² 2 x (0.5 - 2.5) mm ²
TERMINAL CAPACITY (SOLID)	1 x (0.5 - 2.5) mm ² 2 x (0.5 - 2.5) mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	20 - 14

Resources

CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-accessory-declaration-of-conformity-uk251276en.pdf eaton-accessory-declaration-of-conformity-eu250793en.pdf
DRAWINGS	eaton-contactors-dimensions-007.eps
ECAD MODEL	ETN.199313.edz

INSTALLATION INSTRUCTIONS	eaton-contactors-dila-dilm7-15-dilmp20-il03407013z.pdf
	eaton-contactors-dila-dilm7-15-dilmp20-push-in-il034108zu.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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