## 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

PRODUCT NAME	Eaton Moeller® series DILM auxiliary contact module	
CATALOG NUMBER	199459	
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)	



TYPE Front mounting auxilia contact	. ro. r
	ır y
Interlocked opposing contacts within an auxiliary contact modu (according to IEC 6094 1 Annex L)	
TYPE Push-in connection	
FITTED WITH:  Interlocked opposing contacts	
POLLUTION DEGREE 3	
CLIMATIC PROOFING  Damp heat, constant, 1 IEC 60068-2-78 Damp heat, cyclic, to II 60068-2-30	
AMBIENT OPERATING TEMPERATURE - MAX 60 °C	
AMBIENT OPERATING TEMPERATURE - MIN -25 °C	
AMBIENT OPERATING TEMPERATURE 40 °C (ENCLOSED) - MAX	
AMBIENT OPERATING TEMPERATURE -25 °C (ENCLOSED) - MIN	
AMBIENT STORAGE TEMPERATURE - MAX 80 °C	
AMBIENT STORAGE TEMPERATURE - MIN	
CONVENTIONAL THERMAL CURRENT ITH 16 A AT 60°C (3-POLE, OPEN)	
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	
NUMBER OF CONTACTS (CHANGE-OVER 0 CONTACTS)	
NUMBER OF CONTACTS (NORMALLY CLOSED 1 CONTACTS)	
NUMBER OF CONTACTS (NORMALLY OPEN 3 CONTACTS)	

MCAD MODEL	eaton-contact-blocks- mcad-3d-models-dil-a-xhi- 4-pi.stp
	dil a xhi 4 pi.dwg
	eaton-contactors- dimensions-007.eps

RATED IMPULSE WITHSTAND VOLTAGE (UIMP)       6000 V AC         MOUNTING METHOD       Front fastening         CONNECTION       Push in terminals         OVERVOLTAGE CATEGORY       III         CONTROL CIRCUIT RELIABILITY       λ < 5 x 1/107 (1 failure at 2,000,000 operations for Ue = 24 V DC, Umin = 17 V, Imin = 5.4 mA)         DEGREE OF PROTECTION       IP20         MODEL       Top mounting         LAMP HOLDER       None         FUNCTIONS       For standard applications         400 V AC, Between coil and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140         400 V AC, Between coil and auxiliary contacts, According to EN 61140       1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series)         RATED OPERATIONAL CURRENT (IE)       1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series)         10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series)       3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series)         LIFESPAN, ELECTRICAL       1,300,000 Operations (at 230 V, AC-15, 3 A)         TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)       1 x (0.5 - 2.5) mm²         TERMINAL CAPACITY (AUXILIARY CONTACTS, GENERAL USE)       10 A, 600 V AC, (UL/CSA)         SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)       10 A, 600 V AC, Operated (UL/CSA)         A600, AC operated (UL/CSA)       10,000,000 Operations (AC operated)		
CONNECTION       Push in terminals         OVERVOLTAGE CATEGORY       III         CONTROL CIRCUIT RELIABILITY       λ < 5 x 1/10 <sup>7</sup> (1 failure at 2,000,000 operations for U <sub>w</sub> = 24 V DC, Umin = 17 V, Imin = 5.4 mA)         DEGREE OF PROTECTION       IP20         MODEL       Top mounting         LAMP HOLDER       None         FUNCTIONS       For standard applications         SAFE ISOLATION       400 V AC, Between coil and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140         RATED OPERATIONAL CURRENT (IE)       1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series)         10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series)       3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series)         LIFESPAN, ELECTRICAL       1,300,000 Operations (at 230 V, AC-15, 3 A)         TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)       1 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm² CABLE END)         SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)       10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA) 1 A, 250 V DC, (UL/CSA) P300, DC operated (UL/CSA) P300, DC operated (UL/CSA)         ILIFESPAN MECHANICAL       10,000,000 Operations (AC	WITHSTAND VOLTAGE	6000 V AC
OVERVOLTAGE CATEGORY  III  CONTROL CIRCUIT RELIABILITY  DEGREE OF PROTECTION  MODEL  LAMP HOLDER  FUNCTIONS  For standard applications  400 ∨ AC, Between coil and auxiliary contacts, According to EN 61140 400 ∨ AC, Between auxiliary contacts, According to EN 61140 400 ∨ AC, Between auxiliary contacts, According to EN 61140  1 A at 220 ∨, DC L/R ≤ 15 ms (with 1 contact in series) 10 A at 24 ∨, DC L/R ≤ 15 ms (with 1 contact in series) 3 A at 110 ∨, DC L/R ≤ 15 ms (with 1 contact in series) 6 A at 60 ∨, DC L/R ≤ 15 ms (with 1 contact in series) 6 A at 60 ∨, DC L/R ≤ 15 ms (with 1 contact in series)  1 X (0.5 - 2.5) mm² 2 X (0.5 - 2.5) mm² 2 X (0.5 - 2.5) mm²  CABLE END)  SWITCHING CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)  SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)  SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)  LIFESPAN MECHANICAL  1 A (0.00 ∨ AC, (UL/CSA) P300, DC operated (UL/CSA) P300, DC operated (UL/CSA) 10,000,000 Operations (AC	MOUNTING METHOD	Front fastening
CONTROL CIRCUIT RELIABILITY  CONTROL CIRCUIT RELIABILITY  DEGREE OF PROTECTION  IP20  MODEL  LAMP HOLDER  FUNCTIONS  FOR standard applications  400 V AC, Between coil and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140  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)  LIFESPAN, ELECTRICAL  1,300,000 Operations (at 230 V, AC-15, 3 A)  TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)  TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)  SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)  SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)  LIFESPAN MECHANICAL  1,000,000 Operations (AC  A600, AC operated (UL/CSA) P300, DC operated (UL/CSA) P300, DC operations (AC	CONNECTION	Push in terminals
CONTROL CIRCUIT RELIABILITY  2,000,000 operations for U <sub>e</sub> = 24 V DC, Umin = 17 V, Imin = 5.4 mA)  DEGREE OF PROTECTION  IP20  MODEL  Top mounting  LAMP HOLDER  FOR standard applications  400 V AC, Between coil and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140  1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series) 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series)  LIFESPAN, ELECTRICAL  1,300,000 Operations (at 230 V, AC-15, 3 A)  TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)  TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)  SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)  10 A, 600 V AC, (UL/CSA) P300, DC operated (UL/CSA) P300, DC operated (UL/CSA) P300, DC operations (AC		Ш
MODEL       Top mounting         LAMP HOLDER       None         FUNCTIONS       For standard applications         A00 V AC, Between coil and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140         RATED OPERATIONAL CURRENT (IE)       1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series) 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series)         LIFESPAN, ELECTRICAL       1,300,000 Operations (at 230 V, AC-15, 3 A)         TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)       1 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm²         TERMINAL 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)         LIFESPAN MECHANICAL       10,000,000 Operations (AC		2,000,000 operations for $U_e = 24 \text{ V DC}$ , Umin = 17 V,
FUNCTIONS  For standard applications  400 V AC, Between coil and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140 100 V AC, Between auxiliary contacts, According to EN 61140  110 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 110 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 110 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 110 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 110 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 110 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 110 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 110 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 110 A contact in series	DEGREE OF PROTECTION	IP20
FUNCTIONS  For standard applications  400 V AC, Between coil and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140  1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series) 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 1,300,000 Operations (at 230 V, AC-15, 3 A)  TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)  TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)  SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)  SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)  LIFESPAN MECHANICAL  10,000,000 Operations (AC  A600, AC operated (UL/CSA) P300, DC operated (UL/CSA) P300, DC operations (AC	MODEL	Top mounting
SAFE ISOLATION  ### A00 V AC, Between coil and auxiliary contacts, According to EN 61140   ### 400 V AC, Between auxiliary contacts, According to EN 61140   ### 1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series)   ### 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series)   ### 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series)   ### 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series)   ### 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series)   ### 1,300,000 Operations (at 230 V, AC-15, 3 A)   ### 1 X (0.5 - 2.5) mm²   ### 2 X (0.5 - 2.5) mm²   ### 3 X (0.5 - 2.5) mm	LAMP HOLDER	None
According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140 1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series) 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 1,300,000 Operations (at 230 V, AC-15, 3 A)  TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)  TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)  SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)  SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)  LIFESPAN MECHANICAL  ACCORDING 1140 1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 10 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 1 1,300,000 Operations (at 230 V, AC-15, 3 A)  1 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm² 4 x (0.5 - 2.5) mm² 4 x (0.5 - 2.5) mm² 5 x (0.5 - 2.5) mm² 7 x (0.5 - 2.5)	FUNCTIONS	For standard applications
RATED OPERATIONAL CURRENT (IE)  RATED OPERATIONAL CURRENT (IE) $ \begin{array}{l}                                     $	SAFE ISOLATION	and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts,
TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)  TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)  SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)  SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)  LIFESPAN MECHANICAL  230 V, AC-15, 3 A)  1 × (0.5 - 2.5) mm²  2 × (0.5 - 2.5) mm²  2 × (0.5 - 2.5) mm²  2 × (0.5 - 2.5) mm²  10 A, 600 V AC, (UL/CSA)  10 A, 250 V DC, (UL/CSA)  A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)  10,000,000 Operations (AC		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
(FLEXIBLE WITH UNISOLATED FERRULE)  TERMINAL CAPACITY (FLEXIBLE WITH 1 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm² 3 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm² 3 x (0.5 - 2.5) mm² 4 x (0.5 - 2.5) mm² 5 x (0.5 - 2.5) mm² 6 x (0.5 - 2.5) mm² 7 x (0.5 - 2.5) m	LIFESPAN, ELECTRICAL	•
(FLEXIBLE WITH ULTRASONIC WELDED CABLE END)  SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)  SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)  1 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm² 10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)  A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)  10,000,000 Operations (AC	(FLEXIBLE WITH	,
(AUXILIARY CONTACTS, GENERAL USE)  SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)  A600, AC operated (UL/CSA) P300, DC operated (UL/CSA) P300, DC operated (UL/CSA)  10,000,000 Operations (AC	(FLEXIBLE WITH ULTRASONIC WELDED	
(UL/CSA) P300, DC operated (UL/CSA) P300, DC operated (UL/CSA)  10,000,000 Operations (AC	(AUXILIARY CONTACTS,	
TIFFYPAN MFCHANICAL	(AUXILIARY CONTACTS,	(UL/CSA) P300, DC operated
	LIFESPAN, MECHANICAL	•

	10,000,000 Operations (DC operated)
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
NUMBER OF POLES	Four-pole
SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING	10 A gG/gL, 500 V, Max. Fuse, Contacts
RATED INSULATION VOLTAGE (UI)	690 V
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
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm <sup>2</sup> 2 x (0.5 - 1.5) mm <sup>2</sup>
TERMINAL CAPACITY (SOLID)	1 x (0.5 - 2.5) mm <sup>2</sup> 2 x (0.5 - 2.5) mm <sup>2</sup>
TERMINAL CAPACITY (SOLID/STRANDED AWG)	20 - 14
TERMINAL CAPACITY (FLEXIBLE)	1 x (0.5 - 2.5) mm <sup>2</sup> 2 x (0.5 - 2.5) mm <sup>2</sup>
SHOCK RESISTANCE	7 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to

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

## **PROJECT NAME:**

**PROJECT NUMBER:** 

**PREPARED BY:** 



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Eaton House

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