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Eaton 051757

Eaton Moeller® series DILER Contactor relay, 190 V 50 Hz, 220 V 60 Hz, N/O = Normally open: 4 N/O, Screw terminals, AC operation

PRODUCT NAME	Eaton Moeller® series DILER Control relay
CATALOG NUMBER	051757
PRODUCT LENGTH/DEPTH	52 mm
PRODUCT HEIGHT	58 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.17 kg
CERTIFICATIONS	IEC/EN 60947 CSA Class No.: 3211-03 EN 60947-5-1 VDE 0660 UL 508 UL File No.: E29184 UL CE CSA File No.: 012528 CSA CSA-C22.2 No. 14-05 IEC/EN 60947-4-1 UL Category Control No.: NKCR



Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Meets the product standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated.
entire switchgear needs to
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ASSEMBLIES	be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Interlocked opposing contacts
OPERATING FREQUENCY	9000 Operations/h
POLLUTION DEGREE	3
POLLUTION DEGREE CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC
CLIMATIC PROOFING AMBIENT OPERATING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CLIMATIC PROOFING AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CLIMATIC PROOFING AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 50 °C -25 °C
CLIMATIC PROOFING AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX AMBIENT OPERATING TEMPERATURE	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 50 °C -25 °C 40 °C
CLIMATIC PROOFING AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN EQUIPMENT HEAT DISSIPATION, CURRENT-	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 50 °C -25 °C 40 °C
CLIMATIC PROOFING AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 50 °C -25 °C 40 °C 25 °C

NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS, DELAYED SWITCHING)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	4
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS, LEADING)	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	4
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	190 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	190 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
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APPLICATION	Contactor relays
	Contactor relays DILER Mini-contactors
APPLICATION	•
APPLICATION PRODUCT CATEGORY	DILER Mini-contactors Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN
APPLICATION PRODUCT CATEGORY PROTECTION CONVENTIONAL THERMAL CURRENT ITH	DILER Mini-contactors Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
APPLICATION PRODUCT CATEGORY PROTECTION CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) VOLTAGE TYPE OF	DILER Mini-contactors Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) 10 A
APPLICATION PRODUCT CATEGORY PROTECTION CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) VOLTAGE TYPE OF OPERATING VOLTAGE	DILER Mini-contactors Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) 10 A AC/DC
APPLICATION PRODUCT CATEGORY PROTECTION CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) VOLTAGE TYPE OF OPERATING VOLTAGE RATED SWITCH CURRENT OPERATING VOLTAGE AT	DILER Mini-contactors Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) 10 A AC/DC
APPLICATION PRODUCT CATEGORY PROTECTION CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) VOLTAGE TYPE OF OPERATING VOLTAGE RATED SWITCH CURRENT OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT	DILER Mini-contactors Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) 10 A AC/DC 10 A
APPLICATION PRODUCT CATEGORY PROTECTION CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) VOLTAGE TYPE OF OPERATING VOLTAGE RATED SWITCH CURRENT OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT	DILER Mini-contactors Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) 10 A AC/DC 10 A 17 V
APPLICATION PRODUCT CATEGORY PROTECTION CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) VOLTAGE TYPE OF OPERATING VOLTAGE RATED SWITCH CURRENT OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 60 HZ - MIN OPERATING VOLTAGE AT AC, 60 HZ - MIN	DILER Mini-contactors Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) 10 A AC/DC 10 A 17 V 500 V

SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
VOLTAGE TYPE	AC
CODE NUMBER	40E
DEGREE OF PROTECTION	IP20
MOUNTING POSITION	As required (except vertical with terminals A1/A2 at the bottom)
OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT RELIABILITY	< 2 λ, < 1 failure at 100,000,000 Operations (at U _e = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
CONNECTION TYPE (AUXILIARY CIRCUIT)	Screw connection
DUTY FACTOR	100 %
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated)
MOUNTING METHOD	DIN-rail/screw
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc (voltage tolerance - single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz) 0.85 - 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz)
POWER CONSUMPTION, PICK-UP, 50 HZ	25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
SAFE ISOLATION	300 V AC, Between auxiliary contacts, According to EN 61140 300 V AC, Between coil and auxiliary contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
SCREW SIZE	M3.5, Terminal screw
POWER CONSUMPTION, SEALING, 60 HZ	1.3 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
RATED OPERATIONAL CURRENT (IE)	0.5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series) 2.5 A at 24 V, DC L/R ≤ 15

	ms (with 1 contact in series) 2.5 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series) 1.5 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series) 10 A
POWER CONSUMPTION, SEALING, 50 HZ	1.3 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 4.6 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10 A, 600 V AC, (UL/CSA) 0.5 A, 250 V DC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	220 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	220 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED INSULATION VOLTAGE (UI)	690 V
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	6 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	3 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	1.5 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6 A
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	600 V
STATIC HEAT	1.8 W

DISSIPATION, NON- CURRENT-DEPENDENT PVS	
STRIPPING LENGTH (MAIN CABLE)	8 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	21 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	18 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 ms
SWITCHING TIME (AC OPERATED, N/O, WITH AUXILIARY CONTACT MODULE, CLOSING DELAY)	45 ms
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 1.5) mm ² 2 x (0.75 - 1.5) mm ²
SHOCK RESISTANCE	8 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms
SHORT-CIRCUIT PROTECTION RATING	10 A fast, 500V, Maximum fuse, Short-circuit rating without welding, Contacts
TERMINAL CAPACITY (SOLID/STRANDED AWG)	2 x (18 - 14) 18 - 14 1 x (18 - 14)
SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING	6 A gG/gL, 500 V, Max. Fuse, Contacts
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ²
ACTUATING VOLTAGE	190 V 50 Hz, 220 V 60 Hz
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