## Specifications

Photo is representative

## Eaton 010303

Eaton Moeller® series DILER Contactor relay, 220 V DC, N/O = Normally open: 4 N/O, Screw terminals, DC operation

PRODUCT NAME  Eaton Moeller® series DILER Control relay  CATALOG NUMBER  010303  MODEL CODE  DILER-40-G(220VDC)  EAN  4015080103035  PRODUCT LENGTH/DEPTH  PRODUCT HEIGHT  58 mm  PRODUCT WIDTH  45 mm  PRODUCT WEIGHT  0.206 kg  UL File No.: E29184 CSA CSA File No.: 012528 VDE 0660 UL EN 60947-5-1 UL Category Control No.:	General specification	ons
MODEL CODE  DILER-40-G(220VDC)  EAN  4015080103035  PRODUCT LENGTH/DEPTH  54 mm  PRODUCT WIDTH  45 mm  PRODUCT WEIGHT  0.206 kg  UL File No.: E29184 CSA CSA File No.: 012528 VDE 0660 UL EN 60947-5-1 UL Category Control No.:	PRODUCT NAME	
## PRODUCT   54 mm   54 mm   FRODUCT   ENGTH/DEPTH   58 mm   FRODUCT WIDTH   45 mm   FRODUCT WEIGHT   0.206 kg   UL File No.: E29184   CSA   CSA   File No.: 012528   VDE 0660   UL   EN 60947-5-1   UL Category Control No.:   EACH   Control No.:   Control No.:   Category	CATALOG NUMBER	010303
PRODUCT LENGTH/DEPTH         54 mm           PRODUCT HEIGHT         58 mm           PRODUCT WIDTH         45 mm           PRODUCT WEIGHT         0.206 kg           UL File No.: E29184 CSA CSA File No.: 012528 VDE 0660 UL EN 60947-5-1 UL Category Control No.:	MODEL CODE	DILER-40-G(220VDC)
S4 mm	EAN	4015080103035
PRODUCT WIDTH 45 mm  PRODUCT WEIGHT 0.206 kg  UL File No.: E29184  CSA  CSA File No.: 012528  VDE 0660  UL  EN 60947-5-1  UL Category Control No.:		54 mm
PRODUCT WEIGHT  0.206 kg  UL File No.: E29184  CSA  CSA File No.: 012528  VDE 0660  UL  EN 60947-5-1  UL Category Control No.:	PRODUCT HEIGHT	58 mm
UL File No.: E29184  CSA  CSA File No.: 012528  VDE 0660  UL  EN 60947-5-1	PRODUCT WIDTH	45 mm
CSA CSA File No.: 012528 VDE 0660 UL EN 60947-5-1 UL Category Control No.:	PRODUCT WEIGHT	0.206 kg
NKCR IEC/EN 60947 IEC/EN 60947-4-1 CSA Class No.: 3211-03 CSA-C22.2 No. 14-05 CE UL 508	CERTIFICATIONS	CSA CSA File No.: 012528 VDE 0660 UL EN 60947-5-1 UL Category Control No.: NKCR IEC/EN 60947 IEC/EN 60947-4-1 CSA Class No.: 3211-03 CSA-C22.2 No. 14-05 CE
GLOBAL CATALOG 010303	GLOBAL CATALOG	010303



Product specification	S
FEATURES	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.

Resources	
CATALOGS	Product Range Catalog Switching and protecting motors
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
CHARACTERISTIC CURVE	eaton-contactors-diler- relay-characteristic- curve.eps
DECLARATIONS OF	DA-DC-00004748.pdf
CONFORMITY	DA-DC-00004763.pdf
DRAWINGS	eaton-contactors-diler- dimensions.eps
	eaton-contactors-diler- dimensions-002.eps
	eaton-contactors-diler- dimensions-003.eps
	eaton-contactors-diler- dimensions-005.eps
	eaton-contactors-diler- dimensions-004.eps
	eaton-tripping-devices- mounting-diler-contactor- relay-symbol.eps
ECAD MODEL	eaton-diler-control-relay- eplan-010303.edz
INSTALLATION INSTRUCTIONS	<u>IL03407009Z</u>
MCAD MODEL	DA-CS-dil_em
WICAD WIODEL	DA-CD-dil em
SYSTEM OVERVIEW	eaton-contactors- accessory-diler-relay- system-overview.eps
WIRING DIAGRAMS	eaton-contactors-contact- diler-relay-wiring-diagram- 004.eps

10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to 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	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is 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	Is the panel builder's responsibility.
FITTED WITH:	Interlocked opposing contacts
OPERATING FREQUENCY	9000 Operations/h
OPERATING FREQUENCY POLLUTION DEGREE	9000 Operations/h
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POLLUTION DEGREE	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC
POLLUTION DEGREE  CLIMATIC PROOFING  AMBIENT OPERATING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
POLLUTION DEGREE  CLIMATIC PROOFING  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
POLLUTION DEGREE  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
POLLUTION DEGREE  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
POLLUTION DEGREE  CLIMATIC PROOFING  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX  AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN  EQUIPMENT HEAT DISSIPATION, CURRENT-	3  Damp heat, constant, to IEC 60068-2-78  Damp heat, cyclic, to IEC 60068-2-30  50 °C  -25 °C  40 °C
POLLUTION DEGREE  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  HEAT DISSIPATION	3  Damp heat, constant, to IEC 60068-2-78  Damp heat, cyclic, to IEC 60068-2-30  50 °C  -25 °C  40 °C  25 °C

DEPENDENT PVID	
NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)	0
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
POWER CONSUMPTION (PICK-UP) AT DC	2.3 W
POWER CONSUMPTION (SEALING) AT DC	2.3 W
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING	
DELAY) - MIN	26 ms
·	26 ms 25 ms
DELAY) - MIN  SWITCHING TIME (DC  OPERATED, MAKE  CONTACTS, OPENING	
DELAY) - MIN  SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX  SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING	25 ms
DELAY) - MIN  SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX  SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN  SWITCHING TIME (DC OPERATED, N/O, WITH AUXILIARY CONTACT MODULE, CLOSING	25 ms 15 ms

PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	10 A
VOLTAGE TYPE OF OPERATING VOLTAGE	AC/DC
RATED SWITCH CURRENT	10 A
OPERATING VOLTAGE AT AC, 50 HZ - MIN	17 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	500 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	17 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	500 V
OPERATING VOLTAGE AT DC - MIN	24 VDC
OPERATING VOLTAGE AT DC - MAX	220 VDC
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
VOLTAGE TYPE	DC
CODE NUMBER	40E
DEGREE OF PROTECTION	IP20
MOUNTING POSITION	As required (except vertical with terminals A1/A2 at the bottom)
OVERVOLTAGE CATEGORY	Ш
CONTROL CIRCUIT RELIABILITY	< 2 λ, < 1 failure at 100,000,000 Operations (at U <sub>e</sub> = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
CONNECTION TYPE (AUXILIARY CIRCUIT)	Screw connection
DUTY FACTOR	100 %
LIFESPAN, MECHANICAL	20,000,000 Operations (DC operated)
MOUNTING METHOD	DIN-rail/screw
PICK-UP VOLTAGE	0.85 - 1.3 V DC x Uc 0.7 - 1.3 V DC x Uc (at 24 V:

	without auxiliary contact module and at ambient air temperature + 40 °C)
VOLTAGE TOLERANCE	Smoothed DC, three- phase bridge rectifiers or smoothed double-wave rectification
SAFE ISOLATION	300 V AC, Between coil and auxiliary contacts, According to EN 61140 300 V AC, Between auxiliary contacts, According to EN 61140
SCREW SIZE	M3.5, Terminal screw
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)
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)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	220 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	220 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 DISSIPATION, NON- CURRENT-DEPENDENT PVS	2.3 W
STRIPPING LENGTH (MAIN CABLE)	8 mm
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	35 ms
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 1.5) mm <sup>2</sup> 2 x (0.75 - 1.5) mm <sup>2</sup>
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)	1 x (18 - 14) 2 x (18 - 14) 18 - 14
SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING	6 A gG/gL, 500 V, Max. Fuse, Contacts
TERMINAL CAPACITY	1 x (0.75 - 2.5) mm <sup>2</sup> 2 x (0.75 - 2.5) mm <sup>2</sup>
(SOLID)	· ,
TIGHTENING TORQUE	1.2 Nm, Screw terminals

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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