DATASHEET - DIULM12/21(24VDC)

Reversing contactor combination, 380 V 400 V: 5.5 kW, 24 V DC, DC operation

Powering Business Worldwide

Part no. DIULM12/21(24VDC)
107023

General specifications	
Product name	Eaton Moeller® series DIUL contactor combination
Part no.	DIULM12/21(24VDC)
EAN	4015081067916
Product Length/Depth	117 millimetre
Product height	68 millimetre
Product width	90 millimetre
Product weight	0.718 kilogram
Compliances	CE Marked RoHS Compliant
Certifications	UL Category Control No.: NLDX IEC/EN 60947-4-1 CE UL File No.: E29096 CSA File No.: 012528 CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 CSA Class No.: 2411-03, 3211-04 UL Listed CSA Certified CSA UL
Product Tradename	DIUL
Product Type	Contactor combination
Product Sub Type	None
Catalog Notes	IE3-fähige Geräte sind mit dem Logo auf der Verpackung gekennzeichnet.
Features & Functions	
Features	Mechanical interlock
Functions	Reversing safety
General information	
Application	Contactor combinations for starting motors with two directions of rotation
Degree of protection	IP20 NEMA Other
Product category	Contactor combinations
Suitable for	Also motors with efficiency class IE3
Utilization category	AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching
Voltage type	DC
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Terminal capacities	
Terminals	Screw terminals
Electrical rating	
Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	12 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	12 A
Rated operational power at AC-3, 380/400 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 690 V, 50 Hz	6.5 kW
Rated operational power at AC-4, 220/230 V, 50 Hz	2 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	4.4 kW
Magnet system	
Duty factor	100 %
Rated control supply voltage (Us) at AC, 50 Hz - min	0 V

Rated control supply voltage (Us) at AC, 50 Hz - max			0 V
Rated control supply voltage (Us) at AC, 60 Hz - min			0 V
Rated control supply voltage (Us) at AC, 60 Hz - max			0 V
Rated control supply voltage (Us) at DC - min			24 V
Rated control supply voltage (Us) at DC - max			24 V
Communication			
Connection			Screw connection
Contacts			
Number of auxiliary contacts (normally closed contacts)			0
Number of auxiliary contacts (normally open contacts)			2
Design verification			
Equipment heat dissipation, current-dependent Pvid			2.4 W
Heat dissipation capacity Pdiss			0 W
Heat dissipation per pole, current-dependent Pvid			0.8 W
Rated operational current for specified heat dissipation (In)			12 A
Static heat dissipation, non-current-dependent Pvs			4.5 W
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.
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			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Combination of contactors (EC000010)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Combination of contactor (ecl@ss13-27-37-10-09 [AGZ572019])			
Function			Reversing contactor
Rail mounting possible			No
Rated control supply voltage AC 50 Hz		V	0 - 0
Rated control supply voltage AC 60 Hz		V	0 - 0
Rated control supply voltage DC		V	24 - 24
Voltage type for actuating			DC
Number of normally closed contacts as main contact			0
Number of normally open contacts as main contact			6
Type of electrical connection of main circuit			Screw connection
Voltage type (operating voltage)			AC
Operating voltage AC 50 Hz		V	24 - 690

Operating voltage AC 60 Hz		V	24 - 690
Operating voltage DC		V	0 - 0
Rated operation current Ie at AC-1, 400 V		A	12
Rated operation current Ie at AC-3, 400 V		A	12
Rated operation power at AC-3, 400 V		kW	5.5
Rated operation power NEMA		kW	7.4
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			2
Number of auxiliary contacts as change-over contact			0
Type of electrical connection for auxiliary- and control current circuit			Screw connection
Degree of protection (IP)			IP20
Degree of protection (NEMA)			Other
Width		mm	90
Height		mm	68
Depth		mm	117