DATASHEET - DIULEM/21/MV-G(24VDC)

Reversing contactor combination, 380 V 400 V: 4 kW, 24 V DC, DC operation



Part no.	DIULEM/21/MV-G(24VDC)
Catalog No.	214655
Alternate Catalog	XTMR9A21TD
No.	

Delivery program

Product range			Contactor combinations
Application			Contactor combinations for starting motors with two directions of rotation
Accessories			DIUL reversing combinations
Utilization category			NAC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching
Notes			Also suitable for motors with efficiency class IE3.
Rated operational current			
AC-3			
380 V 400 V	l _e	А	9
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	Р	kW	2.2
380 V 400 V	Р	kW	4
660 V 690 V	Р	kW	4
AC-4			
220 V 230 V	Р	kW	1.5
380 V 400 V	Ρ	kW	3
660 V 690 V	Р	kW	3
Actuating voltage			24 V DC
Voltage AC/DC			DC operation
Instructions			Integrated diode-resistor combination
Individual components of the combination			
Contactor Q11 DILEM-10-G + 11DILEM			
Contactor Q12 DILEM-10-G + 11DILEM			
Spare auxiliary contacts			
Mechanical interlock +			

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	9
Heat dissipation per pole, current-dependent	P _{vid}	W	0.71
Equipment heat dissipation, current-dependent	P _{vid}	W	2.13
Static heat dissipation, non-current-dependent	P _{vs}	W	2.3
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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 7.0

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@ss10.0.1-27-37-10-09 [AGZ572014])				
Function		1	Reversing safety	
Rated control supply voltage Us at AC 50HZ	V	(0 - 0	
Rated control supply voltage Us at AC 60HZ	V	(0 - 0	
Rated control supply voltage Us at DC	V	:	24 - 24	
Voltage type for actuating			DC	
Rated operation current le at AC-1, 400 V		9	9	
Rated operation current le at AC-3, 400 V	А	:	9	
Rated operation power at AC-3, 400 V	kV	N	4	
Rated operation power NEMA	kV	N	3.7	
Number of normally closed contacts as main contact		(0	
Number of main contacts as normally open contact		(6	
Type of electrical connection for auxiliary- and control current circuit		1	EV000415	
Type of electrical connection of main circuit		:	Screw connection	
Degree of protection (IP)		l	IP20	
Degree of protection (NEMA)			Other	
Rail mounting possible			Yes	