

Reversing contactor combination, 380 V 400 V: 15 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation



Part no. DIULM32/21(230V50HZ,240V60HZ)
 Catalog No. 278186
 Alternate Catalog No. XTCR032C21F
 EL-Nummer (Norway) 4130469

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	I_e	A		32
Max. rating for three-phase motors, 50 - 60 Hz				
AC-3				
220 V 230 V	P	kW		10
380 V 400 V	P	kW		15
660 V 690 V	P	kW		17
AC-4				
220 V 230 V	P	kW		4
380 V 400 V	P	kW		7
660 V 690 V	P	kW		10
Actuating voltage				230 V 50 Hz, 240 V 60 Hz
Voltage AC/DC				AC operation
Individual components of the combination				
Contactor Q11 DILM32-01 + DILA-XHI20				
Contactor Q12 DILM32-01 + DILA-XHI20				
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	A		32
Heat dissipation per pole, current-dependent	P_{vid}	W		2.9
Equipment heat dissipation, current-dependent	P_{vid}	W		8.7
Static heat dissipation, non-current-dependent	P_{vs}	W		2.1
Heat dissipation capacity	P_{diss}	W		0
Operating ambient temperature min.		°C		-25
Operating ambient temperature max.		°C		60
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		Reversing safety
Rated control supply voltage U_s at AC 50HZ	V	230 - 230
Rated control supply voltage U_s at AC 60HZ	V	240 - 240
Rated control supply voltage U_s at DC	V	0 - 0
Voltage type for actuating		AC
Rated operation current I_e at AC-1, 400 V		32
Rated operation current I_e at AC-3, 400 V	A	32
Rated operation power at AC-3, 400 V	kW	15
Rated operation power NEMA	kW	14.9
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		EV000415
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP)		IP00
Degree of protection (NEMA)		Other
Rail mounting possible		Yes