DATASHEET - DIULM9/21(230V50HZ,240V60HZ)



Reversing contactor combination, 380 V 400 V: 4 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation



Part no. DIULM9/21(230V50HZ,240V60HZ)

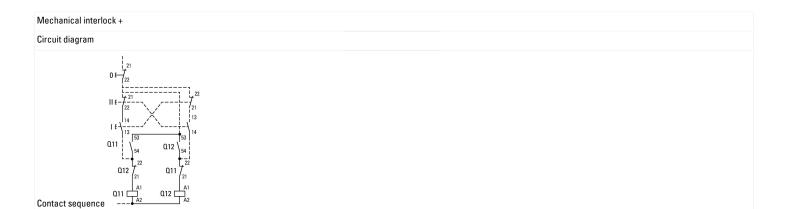
Catalog No. 278086

Alternate Catalog XTCR009B21F

No.

EL-Nummer 4130465

	(Norway)	4130403			
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
					IE3 ✓
Notes					Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging.
Rated operational current	t				
AC-3					
380 V 400 V			le	Α	9
Max. rating for three-pha	se motors, 50 - 60 Hz				
AC-3					
220 V 230 V			Р	kW	2.5
380 V 400 V			P	kW	4
660 V 690 V			P	kW	4.5
AC-4					
220 V 230 V			P	kW	1.5
380 V 400 V			P	kW	2.5
660 V 690 V			P	kW	3.6
Actuating voltage					230 V 50 Hz, 240 V 60 Hz
Voltage AC/DC					AC operation
Individual components of the con	mbination				
Contactor Q11 DILM9-01 + DILA-XHI20					
Contactor Q12 DILM9-01 + DILA-XHI20					
Spare auxiliary contacts					
\					
₀₁₁ 64					
\ 63					
₀₁₂ 64					



Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	9
Heat dissipation per pole, current-dependent	P _{vid}	W	0.28
Equipment heat dissipation, current-dependent	P _{vid}	W	0.84
Static heat dissipation, non-current-dependent	P _{vs}	W	1.4
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 switch gear must be observed. $\label{eq:specification}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Rated control supply voltage Us at AC 60HZ

Low-voltage industrial components (EGU00017) / Combination of Contactors (ECU00010)				
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 Us at AC 50HZ	V	230 - 230		

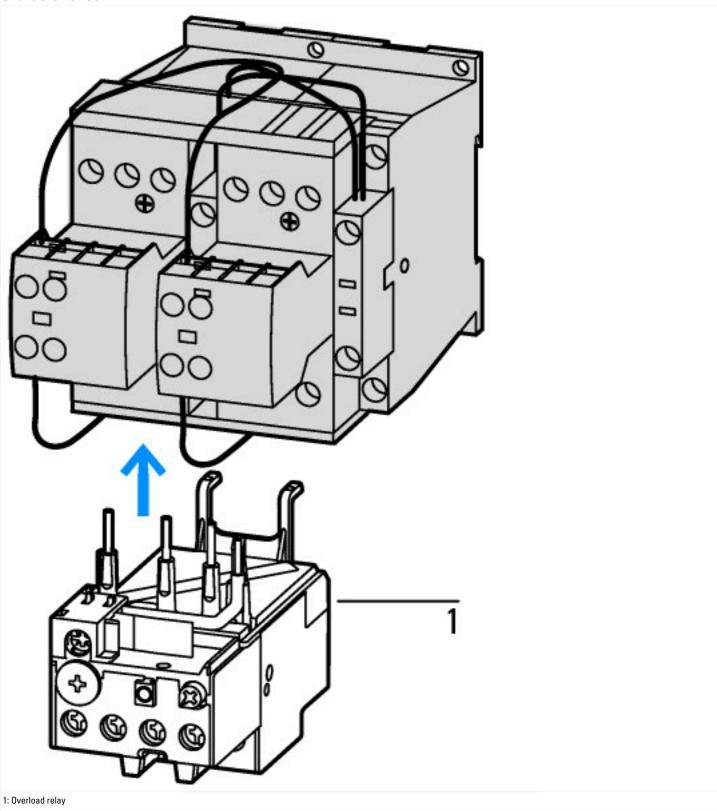
240 - 240

Rated control supply voltage Us at DC	V	0 - 0
Voltage type for actuating		AC
Rated operation current le at AC-3, 400 V	А	A 9
Rated operation power at AC-3, 400 V	kV	W 4
Rated operation power NEMA	kV	W 3.7
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP)		IP20
Degree of protection (NEMA)		Other

Approvals

Product Standards	IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking
UL File No.	E29096
UL Category Control No.	NLDX
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
North America Certification	UL listed, CSA certified
Specially designed for North America	No





Dimensions

