DATASHEET - DIULM25/21(110V50HZ,120V60HZ)



Reversing contactor combination, 380 V 400 V: 11 kW, 110 V 50 Hz, 120 V 60 Hz, AC operation



Powering Business Worldwide

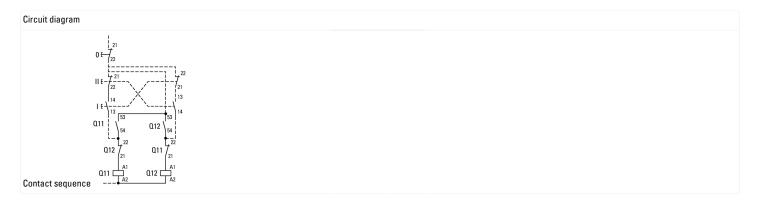
Part no. DIULM25/21(110V50HZ,120V60HZ)

Catalog No. 278158

Alternate Catalog XTCR025C21A

No.

Contactor combinations for starting motors with two directions of rotation. Notes Seed and	140.			
Product range Application Appl	Delivery program			
DIUL reversing combinations	Product range			Contactor combinations
Utilization category AC-3. Normal AC induction motors: starting, purging, reversing, inching LE3 AC-4. Normal AC induction motors: starting, plugging, reversing, inching LE3 AC-3. Also suitable for metars with efficiency class IE3. IE3-radely devices are identified by the logs on their packaging. AC-3. AC-3	Application			Contactor combinations for starting motors with two directions of rotation
Notes Rated operational current AC-3 380 V 400 V AC-3 220 V 200 V P	Accessories			DIUL reversing combinations
Rated operational current AC-3 380 V 400 V AC-3 380 V 400 V AC-3 220 V 230 V P	Utilization category			AC-4: Normal AC induction motors: starting, plugging, reversing, inching
AC-3 880 V 400 V Max. reting for three-phase motors, 50 - 60 Hz AC-3 220 V 280 V P WV 7.5 280 V 400 V P WV 11 AC-4 220 V 280 V 9 WV 3.5 280 V 400 V P WV 6 880 V 800 V P WV 85 880 V 800 V Returning voltage Contracted 11 DILMX-91	Notes			
18	Rated operational current			
Max. rating for three-phase motors, 50 - 60 Hz AC-3 220 V 230 V P NW 75 380 V 400 V P NW 11 AC-4 220 V 230 V P NW 35 380 V 400 V P NW 65 860 V 890 V P NW 65 860 V 890 V P NW 65 Actuating voltage 110 V 50 Hz, 120 V 60 Hz Voltage AC/DC AC operation Total DILMZ-61 10 DLA XH120 ACTUAL X	AC-3			
AC-3 220 V 230 V P NW 15 380 V 400 V P NW 16 680 V 890 V P NW 35 380 V 400 V P NW 55 380 V 400 V P NW 680 V 890 V P NW 680 V P NW 6	380 V 400 V	le	Α	25
AC-3 220 V 230 V P KW 7.5 380 V 400 V P KW 11 AC-4 220 V 230 V P KW 3.5 380 V 400 V P KW 6 680 V 800 V P KW 6 680 V 800 V P KW 6 680 V 800 V P KW 6 ACtuating voltage AC/DC ACtuating voltage	Max. rating for three-phase motors, 50 - 60 Hz			
1880 V 400 V				
AC-4	220 V 230 V	Р	kW	7.5
120 V 230 V 230 V P NW 3.5 380 V 400 V P NW 8.5 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 Hz, 120 V 60 Hz 4ct ustring voltage V 100 V 100 V 100 Hz 4ct ustring voltage V 100	380 V 400 V	Р	kW	11
220 V 230 V P	660 V 690 V	Р	kW	14
S80 V 400 V	AC-4			
Ref V 680	220 V 230 V	P	kW	3.5
Actualing voltage Voltage AC/DC Individual components of the combination Contactor 011 DLM25-01 + DILA-XHI20 Spare auxiliary contacts 64 64 64 64	380 V 400 V	P	kW	6
Ac operation Individual components of the combination Contactor Q11 DILM25-01 - DILAX-HIZD Contactor Q12 DILM25-01 - DILAX-HIZD Spare auxiliary contacts 64 64 64 64	660 V 690 V	Р	kW	8.5
Individual components of the combination Contactor Q11 DILM25-01 + DILA/XHI20 Spare auxiliary contacts 64 64 64 64	Actuating voltage			
Contactor 011 DILM25-01 + DILA-XHI20 Contactor 012 DILM25-01 + DILA-XHI20 Spare auxiliary contacts 64 64 64 64				AC operation
+ DILA-XHI20 Contactor 012 DILM25-01 + DILA-XHI20 Spare auxiliary contacts 64				
Spare auxiliary contacts 64 63 64 64 64 64				
63 64 63 64 64 64 64	Contactor Q12 DILM25-01 + DILA-XHI20			
64 63 64 64	Spare auxiliary contacts			
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Mechanical interlock +	■ 1 04			
	Mechanical interlock +			



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	25
Heat dissipation per pole, current-dependent	P _{vid}	W	1.8
Equipment heat dissipation, current-dependent	P _{vid}	W	5.3
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

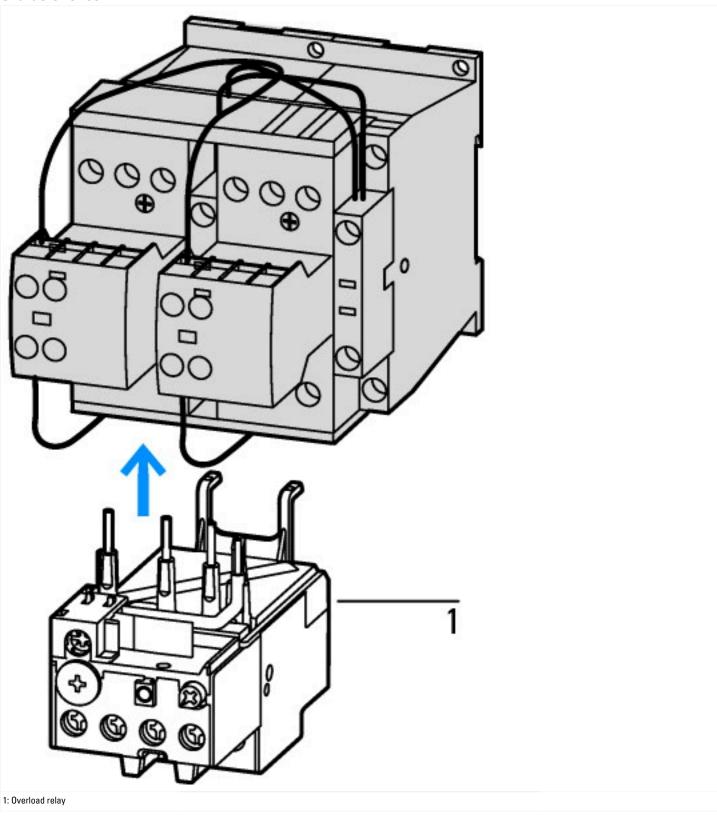
Low-voltage industrial components (EG000017) / Combination of contactors (EC000010)				
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Combination of contactor (ecl@ss10.0.1-27-37-10-09 [AGZ572014])				
Function		Reversing safety		
Rated control supply voltage Us at AC 50HZ	V	110 - 110		
Rated control supply voltage Us at AC 60HZ	V	120 - 120		
Rated control supply voltage Us at DC	V	0 - 0		

Voltage type for actuating		AC
Rated operation current le at AC-3, 400 V	Α	25
Rated operation power at AC-3, 400 V	kW	11
Rated operation power NEMA	kW	11
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP)		IP00
Degree of protection (NEMA)		Other

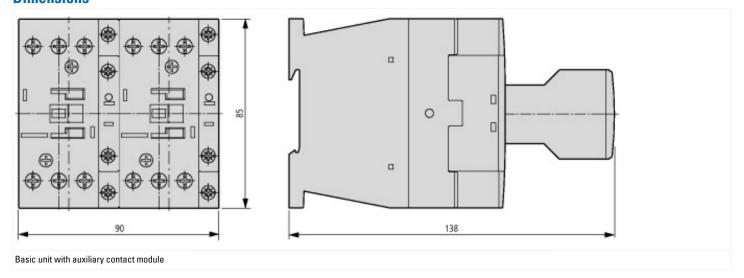
Approvals

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



Additional product information (links)

IL03407030Z (AWA2100-2139) Wiring for contactor combinations

IL03407030Z (AWA2100-2139) Wiring for contactor combinations

https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407030Z2018_05.pdf