DATASHEET - DILEM-10(24V50/60HZ)



Contactor, 24 V 50/60 Hz, 3 pole, 380 V 400 V, 4 kW, Contacts N/O = Normally open= 1 N/O, Screw terminals, AC operation



DILEM-10(24V50/60HZ) Part no. 021417 Catalog No.

Alternate Catalog XTMC9A10T

Delivery program			
Product range			Contactors
Application			Mini Contactors for Motors and Resistive Loads
Subrange			DILEM contactors
Utilization category			AC-1: Non-inductive or slightly inductive loads, resistance furnaces 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.
Connection technique			Screw terminals
Description			With auxiliary contact
Number of poles			3 pole
Rated operational current			
AC-3			
380 V 400 V	I _e	Α	9
AC-1			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	Α	22
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	P	kW	2.2
380 V 400 V	P	kW	4
660 V 690 V	P	kW	4
AC-4			
220 V 230 V	P	kW	1.5
380 V 400 V	P	kW	3
660 V 690 V	P	kW	3
Contacts			
N/0 = Normally open			1 N/0
Contact sequence			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
For use with			DILEM
Actuating voltage			24 V 50/60 Hz
Voltage AC/DC			AC operation

Technical data

General			
Standards			IEC/EN 60947, VDE 0660, CSA, UL
Lifespan, mechanical; Coil 50/60 Hz	Operations	x 10 ⁶	7
Lifespan, mechanical	Operations	x 10 ⁶	10
Maximum operating frequency			

Marcian Contaction without coveried relay	Mechanical		One /h	9000
Cambing promiting Cambing promiting Cambing poster promiting Cambin		One mation of the	Ops./h	
Part		Operations/ii		
Company	Cimatic proving			
Enclased Storage Storage Meanufact temperature, storage Ambient temperature, storage Ambient temperature, storage Ambient temperature, storage Ambient temperature, storage Meanufact position Countries position Meanufact and storage max. Meanufact all shock resistance (ECCN 0008 3-27) Histell administration of temperature and storage max. Meanufact all shock resistance (ECCN 0008 3-27) Histell administration of temperature and storage max. Meanufact and storage max.	Ambient temperature			
Storage	Open		°C	-25 - +50
Miles unbient temperceture, storage max.	Enclosed		°C	- 25 - 40
Analizati temperature, storage max Vicurianing position Westhamical shock resistance (IECEN 8008-2-27) Half-sinuspidal	Storage		°C	
Abundancy presision Abundancy and select Associated (ECEN 8008-2-27) Abundancy and select actual select ac	Min. ambient temperature, storage		°C	- 40
Machanical shock resistance (ECFN 6008 2-27) Maile sinusoidal shock. 10 ms Basic unit without auxiliary contact module Main contacts MakeDreak contacts Main contacts MakeDreak contacts Main contacts MakeDreak contacts Main contacts make contact Main contacts Note that main main contacts Solid or stranded Main main contacts Solid or stranded ANVI 18-14 ANVI 18-14 Tennals screw Pacific with ferrula Main contacts Main contacts Main contacts Note that main contacts Solid or stranded ANVI 18-14 ANVI 18-14 Tennals screw Pacific with acceptance of the main contacts Solid or stranded ANVI 18-14 Tennals screw Pacific main contacts Note that main contacts Not	Ambient temperature, storage max.		°C	+ 80
Mechanical abook resistance (IECPIN 80088-2-27) Half-sinusodal shock. 10 ms Basic cunt without auxiliary contact module Man contacts, make contacts Man contacts, make contacts Man contacts when accurated to make the second to the secon	Mounting position			As required, except vertical with terminals A1/A2 at the bottom
Half-sinusoidal shock, 10 ms Sasic untivathout auxilary contact module Sasic untivathout auxilary contact module Sasic untivathout auxilary contacts Sasic untivathout auxilary contacts Sasic untivath auxilary contact module Sasic untivath auxilary contact Make contact Sasic untivath auxilary contacts Make contact Sasic untivath auxilary contact shake/break contact Sasic untivath auxilary contact Sasic untivath auxi	Mounting position			
Basic unit vithout auxiliary contact module	Mechanical shock resistance (IEC/EN 60068-2-27)			
Main contacts Make/break contacts	Half-sinusoidal shock, 10 ms			
Make	Basic unit without auxiliary contact module			
Make Basic unit with auxiliary contact module	Main contacts, make contacts		g	10
Basic unit with auxiliary contacts make contact Main contacts make contact Make Auxiliary contacts Make/break contacts Protection Pr	Main contacts Make/break contacts		g	
Make Make Contacts Make/break contacts Auxiliary contacts Make/break contacts Degree of Protection Protection against direct contact when actuated from front (EN 50274) Winduse Workgint Germinal capacity of auxiliary and main contacts Solid Flexible with ferrule Solid or stranded Solid or stranded Solid or stranded Solid or stranded Flexible with ferrule Flexible with ferrule Solid or stranded	Make		g	8
Make	Basic unit with auxiliary contact module			
Auxillary contacts Make/break contacts Degree of Protection Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated from front (EN 50274) Protection against direct contact when actuated protection against direct contact when actuated protection against direct contact when actuated protection agains	Main contacts make contact		g	
Protection against direct contact when actuated from front (EN 50274) Altitude m M Max. 2000 Ferminal capacity of auxiliary and main contacts Solid contact when actuated from front (EN 50274) Solid contact when actuated from front (EN 50274) Flexible with ferrule mm 2 1x 0.75 - 2.5] Solid contact when actuated from front (EN 50274) Flexible with ferrule mm 2 1x 0.75 - 2.5] Solid contact when actuated from front (EN 50274) Flexible with ferrule mm 2 1x 0.75 - 2.5] Solid contact when actuated from front (EN 50274) Solid contact when actuated from front (EN 50274) Flexible with ferrule mm 2 1x 0.75 - 2.5] Solid contact when actuated from front (EN 50274) Solid contact when actuated from front (EN 50274) Max 12 2x (0.75 - 1.5) 2x (0	Make		g	10
Protection against direct contact when actuated from front (EN 50274) Altitude	Auxiliary contacts Make/break contacts		g	20 / 20
Max. 2000 Max.	Degree of Protection			IP20
Weight ferminal capacity of auxiliary and main contacts Screw terminals Solid Flexible with ferrule Solid or stranded Stripping length Terminal screw Pozidriv screwdriver Standard screwdriver Standard screwdriver Max. tightening torque Max. tightening Max. tightening torque Max. tightening torque Max. t	Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Solid and stranded stranded stranded solid are stranded solid and stranded solid are solid are stranded solid are sol	Altitude		m	Max. 2000
Screw terminals mm² 1 x (0.75 - 2.5) (2 x (0.75 - 2.5)) Flexible with ferrule mm² 1 x (0.75 - 1.5) (2 x (0.75 - 1.5)) Solid or stranded AWG 18 - 14 Stripping length Max 18 - 14 Terminal screw M3.5 M3.5 Pozidriv screwdriver Size 2 Standard screwdriver Nm 1.2 Max. tightening torque Nm 1.2 Aisted impulse withstand voltage V AC 6000 Overvoltage category/pollution degree III/3 6000 Stated insulation voltage U _i V AC 690 Stated insulation to EN 61140 V AC 690 between coil and contacts V AC 300 between the contacts V AC 300	Weight		kg	0.17
Solid Soli	Terminal capacity of auxiliary and main contacts			
Flexible with ferrule	Screw terminals			
Solid or stranded	Solid		mm ²	
Stripping length Terminal screw M3.5 Pozidriv screwdriver Standard screwdriver Standard screwdriver Max. tightening torque Max. tighteni	Flexible with ferrule		mm ²	
Terminal screw Pozidriv screwdriver Standard screwdriver Max. tightening torque Max. tighte	Solid or stranded		AWG	18 - 14
Size 2 Standard screwdriver mm 0.8 x 5.5 1 x 6 Max. tightening torque nducting paths Bated impulse withstand voltage virule voltage virule v	Stripping length		mm	8
Standard screwdriver Max. tightening torque Max. tightening torque Nm 1.2 Main conducting paths Rated impulse withstand voltage Overvoltage category/pollution degree Ui V AC Bated operational voltage Ui V AC Serie isolation to EN 61140 between coil and contacts V AC Standard screwdriver mm 0.8 x 5.5 1 x 6 Nm 1.2 6000 III/3 690 690 690 690 690 690 690 69	Terminal screw			M3.5
Max. tightening torque Main conducting paths Bated impulse withstand voltage Overvoltage category/pollution degree Bated operational voltage Ui V AC V AC 690 Bated operational voltage V AC between coil and contacts V AC between the contacts I X 6 Nm 1.2 6000 III/3 6000 III/3 690 690 690 690 V AC 690 Overvoltage isolation to EN 61140 Overvoltage isolation to EN 61140	Pozidriv screwdriver		Size	2
Main conducting paths Rated impulse withstand voltage Overvoltage category/pollution degree Rated insulation voltage Ui V AC 690 Rated operational voltage Ue V AC 690 Safe isolation to EN 61140 between coil and contacts V AC 690 V AC 300	Standard screwdriver		mm	
Rated impulse withstand voltage Overvoltage category/pollution degree Rated insulation voltage Ui V AC 690 Rated operational voltage Ue V AC 690 Safe isolation to EN 61140 between coil and contacts V AC 500 V AC 300	Max. tightening torque		Nm	1.2
Overvoltage category/pollution degree Ui VAC 690 Rated insulation voltage Ue VAC 690 Safe isolation to EN 61140 between coil and contacts VAC 300 between the contacts VAC 300	Main conducting paths			
Rated insulation voltage Ue VAC 690 Safe isolation to EN 61140 between coil and contacts VAC 300 VAC 300	Rated impulse withstand voltage	U _{imp}	V AC	6000
Rated operational voltage Safe isolation to EN 61140 between coil and contacts between the contacts V AC 300 V AC	Overvoltage category/pollution degree			III/3
Safe isolation to EN 61140 between coil and contacts V AC between the contacts V AC 300	Rated insulation voltage	Ui	V AC	690
between coil and contacts VAC 300 between the contacts VAC 300	Rated operational voltage	U _e	V AC	690
between the contacts VAC 300	Safe isolation to EN 61140			
	between coil and contacts		V AC	300
Making capacity (cos φ to IEC/EN 60947) A 110	between the contacts		V AC	300
	Making capacity (cos φ to IEC/EN 60947)		Α	110

	Α	90
	Α	90
	Α	64
	Α	42
gL/gG	Α	10
gL/gG	Α	20
		22
		20
I _{th} =I _e	Α	19
I _{th}	Α	16
		At maximum permissible ambient air temperature.
		At maximum permissible ambient air temperature.
I _{th}	Α	50
I _{th}	Α	40
		At maximum permissible ambient temperature (open.)
l _e	Α	9
I _e	Α	9
l _e	Α	9
I _e	Α	9
le	Α	9
I _e	Α	6.4
I _e	Α	4.8
Р	kWh	
Р	kW	2.2
Р	kW	2.5
Р	kW	4
Р	kW	4.3
Р	kW	4.6
P	kW	4
P	kW	4
		At maximum permissible ambient air temperature.
l _e	Α	6.6
l _e	Α	6.6
I _e	Α	6.6
l _e	Α	6.6
I _e	Α	6.6
1	Α	5
I _e		
l _e	Α	3.4
	A kWh	3.4
	GL/gG GL/g	A

240 V	Р	kW	1.0
			1.8
380 V 400 V	P	kW	3
415 V	P	kW	3.1
440 V	P	kW	3.3
500 V	Р	kW	3
660 V 690 V	P	kW	3
DC Rated operational current open			
DC-1			
12 V	1	Α	20
	le		
24 V	l _e	Α	20
60 V	l _e	Α	20
110 V	l _e	Α	20
220 V	l _e	Α	20
Current heat losses (3- or 4-pole)			
at I _{th} , 50 °C		W	5.9
at I _e to AC-3/400 V		W	1.2
Magnet systems			
Voltage tolerance			
AC operated			
Dual-frequency coil 50/60 Hz	Pick-up	x U _c	0.85 - 1.1
Power consumption			
AC operation			
Dual-frequency coil 50/60 Hz at 50 Hz	Pick-up	VA	30
Dual-frequency coil 50/60 Hz at 50 Hz	Pick-up	W	26
Dual-frequency coil 50/60 Hz at 50 Hz	Sealing	VA	5.4
Dual-frequency coil 50/60 Hz at 50 Hz	Sealing	W	1.8
Dual-frequency coil 50/60 Hz at 60 Hz	Pick-up	VA	29
Dual-frequency coil 50/60 Hz at 60 Hz	Pick-up	W	24
Dual-frequency coil 50/60 Hz at 60 Hz	Sealing	VA	3.9
Dual-frequency coil 50/60 Hz at 60 Hz	Sealing	W	1.8
Duty factor		% DF	100
Switching times at 100 $\%$ U _c			
Make contact		ms	
Closing delay		ms	
Closing delay min.		ms	14
Closing delay max.		ms	21
Opening delay		ms	
Opening delay min.		ms	8
Opening delay max.		ms	18
Closing delay with top mounting auxiliary contact		ms	45
Reversing contactors			
Changeover time at 110 % U_{c}			
Changeover time min.		ms	16
Changeover time max.		ms	21
Arcing time at 690 V AC		ms	12
Auxiliary contacts			
Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module			Yes
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U _e	V AC	600
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	300

hatuaan tha auviliany aantaata		V AC	200
between the auxiliary contacts		V AC	300
Rated operational current			
AC-15		۸	
220 V 240 V	I _e	A	6
380 V 415 V	I _e	Α	3
500 V	l _e	Α	1.5
DC L/R ≦ 15 ms			
Contacts in series:		Α	
1	24 V	Α	2.5
2	60 V	Α	2.5
3	100 V	Α	1.5
3	220 V	Α	0.5
Conv. thermal current	I _{th}	Α	10
Control circuit reliability	Failure rate	λ	$<10^{-8}$, $<$ one failure at 100 million operations (at U _e = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 mA)
Component lifespan at $U_e = 240 \text{ V}$			
AC-15	Operations	x 10 ⁶	0.2
DC current			
$L/R = 50 \text{ ms: } 2 \text{ contacts in series at } I_e = 0.5 \text{ A}$	Operations	x 10 ⁶	0.15
Notes			Switch-on and switch-off conditions based on DC-13, time constant as specified
Short-circuit rating without welding			
Maximum overcurrent protective device			
Short-circuit protection only			PKZM0-4
Short-circuit protection maximum fuse			
500 V		A gG/gL	6
500 V		A fast	10
Current heat loss at a load of I _{th} per contact		W	1.1
Rating data for approved types			
Switching capacity			
Maximum motor rating			
Three-phase			
200 V 208 V		HP	2
230 V 240 V		HP	3
460 V		НР	5
480 V			
575 V 600 V		HP	5
Single-phase			
115 V 120 V		HP	0.5
230 V 240 V		HP	1.5
General use		Α	15
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		Α	10
DC		V	250
DC		Α	0.5
Short Circuit Current Rating		SCCR	
Basic Rating			
SCCR		kA	5

max. Fuse A 45	
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Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipation In	Design vernication as per 126/214 01433			
Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Ped W 1.2 Static heat dissipation, current-dependent Ped W 1.8 Static heat dissipation capacity Ped W 1.8 Heat dissipation capacity Ped W 1.8 Ped W 0.0 Operating ambient temperature min. Operating ambient temperature max. C 2.2 Ped W 0.0 Operating ambient temperature max. C 5.0 EC/EN 61439 design verification 10.2 Strongth of materials and parts 10.2.2 Corrosion resistance 10.2.3 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (IVV) rediation 10.2.5 Litting 10.2.6 Mechanical impact 10.2.7 Interriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and croepage distances 10.5 Protection against electric shock 10.5 Incorporation of switching devices and components 10.5 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Commections for external conductors 10.9 Insulation properties 10.10 Secure frequency electric strongth 10.3 Insulation properties 10.10 Femolosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function	Technical data for design verification			
Equipment heat dissipation, current-dependent Pris W 1.2 Static heat dissipation, non-current dependent Pris W 1.8 Heat dissipation, non-current dependent Pris W 1.8 Operating antivient temperature min. Operating antivient temperature max. 1°C 25 Operating antivient temperature max. 1°C 25 So IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3 Verification of resistance of insulating materials to normal heat 10.2.3 Verification of resistance of insulating materials to abnormal heat 10.2.3 Verification of resistance of insulating materials to abnormal heat 10.2.5 Lifting 10.2.6 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inserting and consequence of insulating materials to abnormal heat 10.2.7 Inserting devices and consequence of insulating materials to abnormal heat 10.3 Degree of protection of ASSEMBLIES 10.4 Resistance to ultra-violet (UV) radiation 10.5 Protection against electric shock 10.6 Corporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Incorporation of switching devices and components 10.9 Incorporation of switching devices and connections 10.9 Insulation properties 10.9 Insulation prop	Rated operational current for specified heat dissipation	In	Α	9
Static heat dissipation, non-current-dependent Heat dissipation capacity Paiss W 0 0-porating ambient temperature min. Operating ambient temperature max. CEC 5 0-25 0-perating ambient temperature max. CECWEN 41938 design verification 10.2 Strength of materials and parts 10.2.2 Strength of materials and parts 10.2.2 Strength of materials and parts 10.2.3 Verification of thermal stability of enclosures 10.2.3 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2 Strength of protection of ASSEMBLIES 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Deep rotection against electric shock 10.3 Deep rotection against electric shock 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.9 Inscriptions 10.9 Inscriptions 10.9 Inscription or presistance 10.9 Inscriptions 10.9 Inscription addition of the sistence of insulating materials to abnormal heat and fire due to internal electric shock 10.8 Commercions for acturnal conductors 10.9 Protection against electric shock 10.9 Frotection against electric shock 10.9 Inscription and creepage distances 10.9 Protection against electric shock 10.9 Inscription of evidence of acturnal conductors 10.9 Inscription of evidence of actur	Heat dissipation per pole, current-dependent	P _{vid}	W	0.4
Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. ***C****C*****C*****D********C*****D******	Equipment heat dissipation, current-dependent	P _{vid}	W	1.2
Operating ambient temperature min. Operating ambient temperature max. ****C 50 Committee Commit	Static heat dissipation, non-current-dependent	P _{vs}	W	1.8
Operating ambient temperature min. Operating ambient temperature max. **C 50 **C 50 **EUC/KN 4139 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Michanical impact 10.2.7 Inscriptions 10.2.8 Michanical impact 10.2.9 Inscriptions 10.4 Clearances and creepage distances 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and components 10.8 Incorporation for existand conductors 10.9 Insulation properties 10.9 Insulatio	Heat dissipation capacity	P _{diss}	W	0
IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to abnormal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat 10.2.4 Resistance to ultra-violet (UV) rediation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.5 Lifting 10.2.6 Mechanical impact 10.3.0 Begree of protection of ASSEMBLIES 10.3.0 Begree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.1 Power-frequency electric strength 10.9 Insulation properties 10.9 Topic and provide that dissipation of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.15 The device meets the requirements, provided the information in the instruction 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Device meets the requirements, provided the information in the instruction	Operating ambient temperature min.		°C	-25
10.2 Strength of materials and parts 10.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.5 Mechanical impact 10.2.5 Mechanical impact 10.2.7 Inscriptions 10.3.0 Begree of protection of ASSEMBLIES 10.4 Dees not apply, since the entire switchgear needs to be evaluated. 10.5 Protection of ASSEMBLIES 10.6 Incorporation of switching devices and components 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.1 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.1 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. 10.5 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.8 Dense not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections 10.8 the panel builder's responsibility. 10.9 The panel builder's responsibility. 10.9 The panel builder's responsibility. 10.9 The panel builder's responsibility. 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 1	Operating ambient temperature max.		°C	50
10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3.0 Egree of protection of ASSEMBLIES 10.3.0 Egree of protection of ASSEMBLIES 10.4. Clearances and creepage distances 10.5. Frotection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.1 Supplies withstand voltage 10.9.2 Power-frequency electric strength 10.9.1 Supplies withstand voltage 10.9.1 Thermal stability of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Meets the product standard's requirements. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. In the panel builder's responsibility. Is the panel builder's responsibility. The specifications for the switchgear must be observed. In the device meets the requirements, provided the information in the instruction	IEC/EN 61439 design verification			
10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.1 Suppose the entire switchgear needs to be evaluated. 10.9 Insulation properties 10.9 Insulation prope	10.2 Strength of materials and parts			
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	10.12 Electromagnetic compatibility			
	10.13 Mechanical function			

Technical data ETIM 7.0

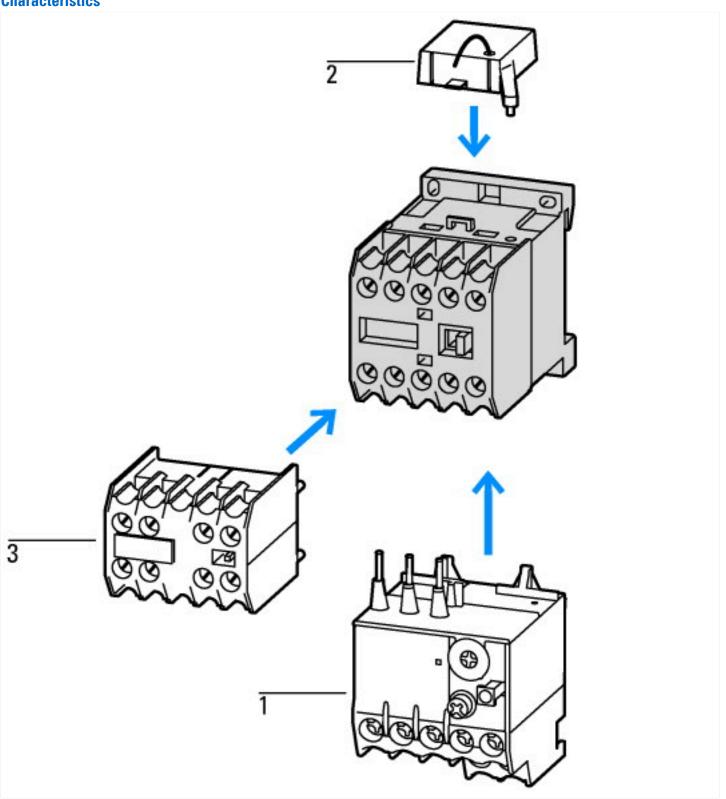
Low-voltage industrial components (EG000017) / Power contactor, AC switching (E	C000066)		
Electric engineering, automation, process control engineering / Low-voltage switc	h technology / (Contactor	(LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])
Rated control supply voltage Us at AC 50HZ		V	24 - 24
Rated control supply voltage Us at AC 60HZ		V	24 - 24
Rated control supply voltage Us at DC		V	0 - 0
Voltage type for actuating			AC
Rated operation current le at AC-1, 400 V		Α	22
Rated operation current le at AC-3, 400 V		Α	9
Rated operation power at AC-3, 400 V		kW	4
Rated operation current le at AC-4, 400 V		Α	6.6
Rated operation power at AC-4, 400 V		kW	3
Rated operation power NEMA		kW	3.7
Modular version			No
Number of auxiliary contacts as normally open contact			1
Number of auxiliary contacts as normally closed contact			0

Type of electrical connection of main circuit	Screw connection	
Number of normally closed contacts as main contact	0	
Number of main contacts as normally open contact	3	

Approvals

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL Category Control No.	NLDX
CSA File No.	012528
CSA Class No.	3211-04
North America Certification	UL listed, CSA certified
Specially designed for North America	No

Characteristics

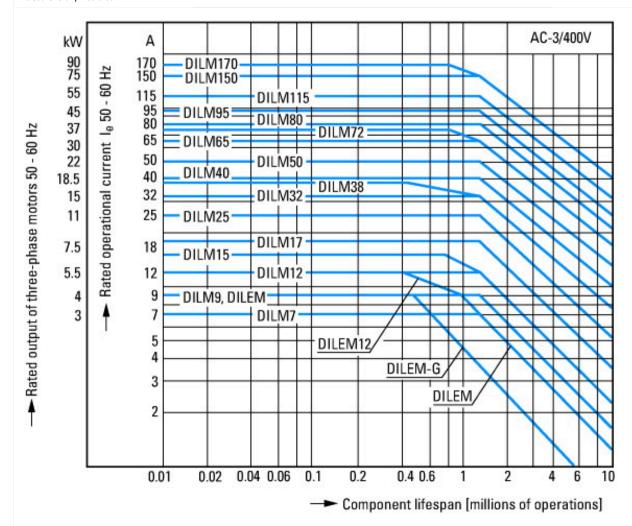


1: Overload relay

2: Suppressor

3: Auxiliary contact modules

Enclosure totally insulated



Squirrel-cage motor
Operating characteristics
Starting:from rest
Stopping:after attaining full running speed
Electrical characteristics
Make: up to 6 x rated motor current
Break: up to 1 x rated motor current
Utilization category
100 % AC-3
Typical applications
Compressors
Lifts

Mixers

Pumps

Escalators

Agitators

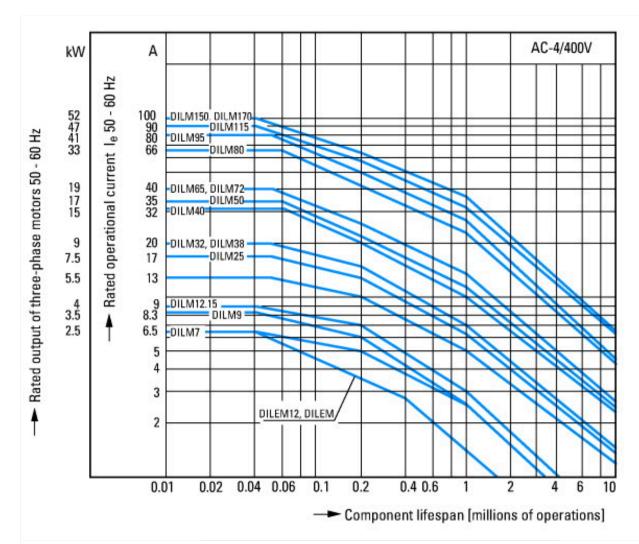
Fans

Conveyor belts Centrifuges

Hinged flaps

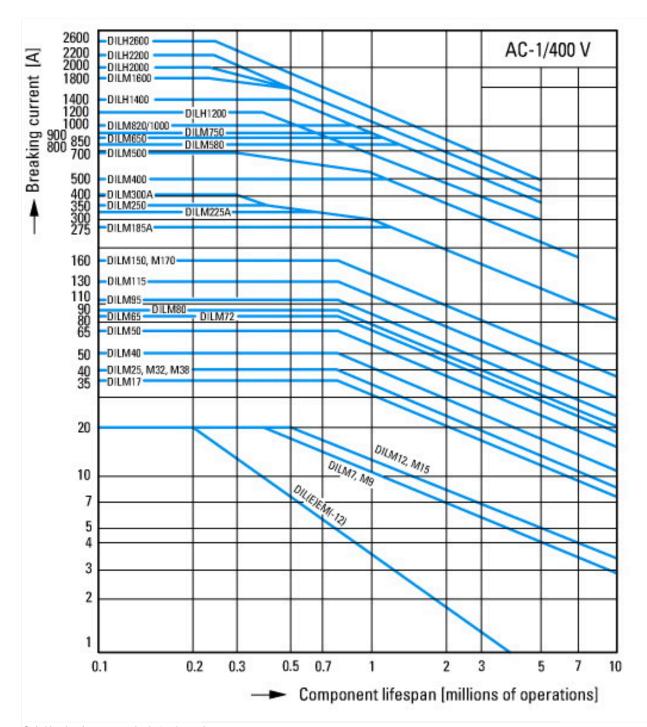
Bucket-elevators Air conditioning system

General drives in manufacturing and processing machines

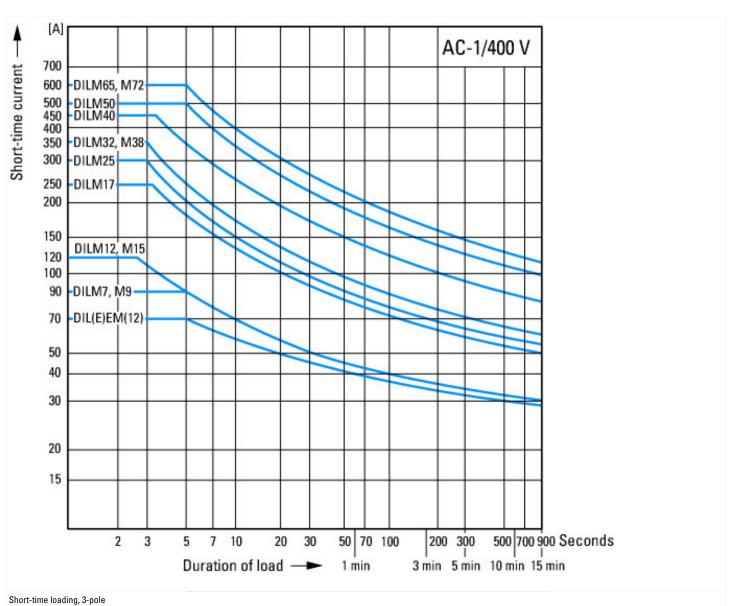


Extreme switching duty Squirrel-cage motor Operating characteristics Inching, plugging, reversing Electrical characteristics Make: up to 6 x rated motor current Break: up to 6 x rated motor current Utilization category 100 % AC-4 Typical applications Printing presses Wire-drawing machines Centrifuges

Special drives for manufacturing and processing machines

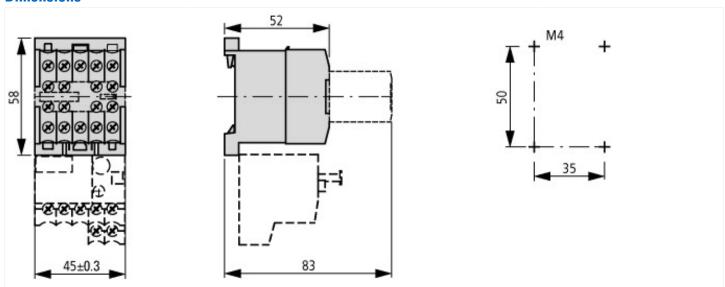


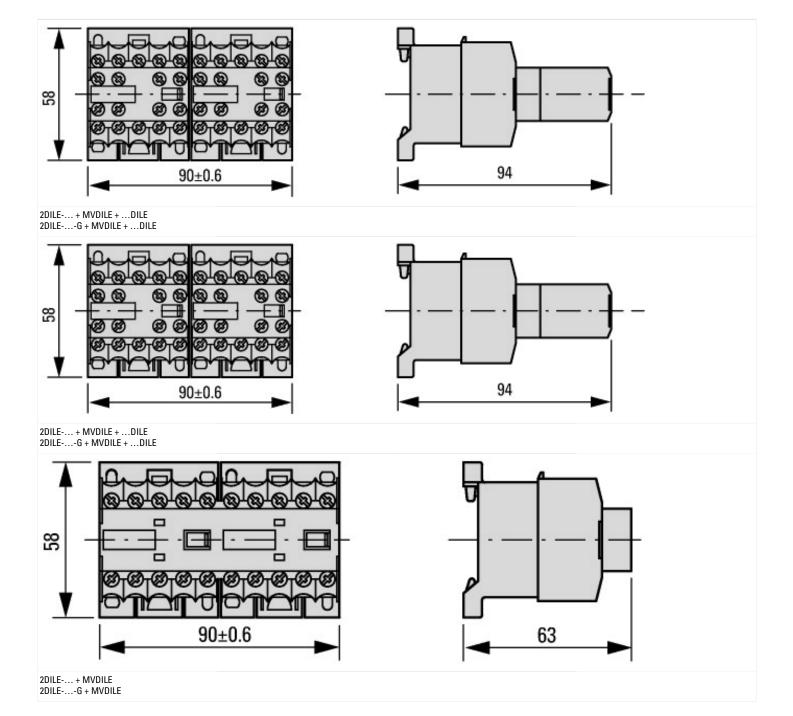
Switching duty for non-motor loads, 3-pole, 4-pole Operating characteristics
Non-inductive or slightly inductive loads
Electrical characteristics
Make: 1 x rated current
Break: 1 x rated current
Utilization category
100 % AC-1
Typical applications



Time interval between two loading cycles: 15 minutes

Dimensions





Additional product information (links)

IL03407009Z (AWA2100-0882) Mini contactor relay

IL03407009Z (AWA2100-0882) Mini contactor relay

https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407009Z2020_05.pdf