DATASHEET - DILEM-10(380V50/60HZ)



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



Part no. DILEM-10(380V50/60HZ)
Catalog No. 032241

Alternate Catalog XTMC9A10AR

No

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 AC-3/AC-3e: Normal AC induction motors: Starting, switching off while 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. Also tested according to AC-3e.
Connection technique			Screw terminals
Description			With auxiliary contact
Number of poles			3 pole
Rated operational current			
AC-3			
380 V 400 V	l _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	Р	kW	2.2
380 V 400 V	P	kW	4
660 V 690 V	Р	kW	4
AC-4			
220 V 230 V	Р	kW	1.5
380 V 400 V	P	kW	3
660 V 690 V	Р	kW	3
Contacts			
N/O = Normally open			1 N/0
Contact sequence			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
For use with			DILEM
Actuating voltage			380 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			
Mechanical		Ops./h	9000
electrical (Contactors without overload relay)	Operations/h	Орз./11	See characteristic curves
Climatic proofing	Operations/ii		Damp heat, constant, to IEC 60068-2-78
Cililate probling			Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +50
Enclosed		°C	- 25 - 40
Storage		°C	
Min. ambient temperature, storage		°C	- 40
Ambient temperature, storage max.		°C	+ 80
Mounting position			As required, except vertical with terminals A1/A2 at the bottom
Mounting position			
Mechanical shock resistance (IEC/EN 60068-2-27)			
Half-sinusoidal shock, 10 ms			
Basic unit without auxiliary contact module			
Main contacts, make contacts		g	10
Main contacts Make/break contacts		g	
Make		g	8
Basic unit with auxiliary contact module			
Main contacts make contact		g	
Make		g	10
Auxiliary contacts Make/break contacts		g	20 / 20
Degree of Protection			IP20
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Altitude		m	Max. 2000
Weight		kg	0.17
Terminal capacity of auxiliary and main contacts			
Screw terminals Solid		2	1 x (0.75 - 2.5)
Suilu		mm ²	2 x (0.75 - 2.5)
Flexible with ferrule		mm ²	1 x (0.75 - 1.5) 2 x (0.75 - 1.5)
Solid or stranded		AWG	18 - 14
Stripping length		mm	8
Terminal screw			M3.5
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 × 5.5 1 × 6
Max. tightening torque		Nm	1.2
Main conducting paths			
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	690
Safe isolation to EN 61140			
between coil and contacts		V AC	300
between the contacts		V AC	300

Making consoits (con a to IEC/EN 60047)		٨	110
Making capacity (cos φ to IEC/EN 60947)		Α	110
Breaking capacity			00
220 V 230 V		Α	90
380 V 400 V		Α	90
500 V		Α	64
660 V 690 V		Α	42
Short-circuit protection maximum fuse			
Type "2", 500 V	gL/gG	Α	10
Type "1", 500 V	gL/gG	Α	20
AC			
AC-1			
Rated operational current			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	Α	22
at 50 °C	$I_{th} = I_e$	Α	20
enclosed	I _{th}	Α	16
Notes			At maximum permissible ambient air temperature.
Conventional free air thermal current, 1 pole			
Notes			At maximum permissible ambient air temperature.
open	I _{th}	Α	50
enclosed	I _{th}	Α	40
AC-3		^`	
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
Notes			At maximum permissible ambient temperature (open.) Also tested according to AC-3e.
220 V 230 V	I _e	Α	9
240 V	I _e	A	9
380 V 400 V		A	9
	l _e		
415 V	l _e	Α	9
440V	l _e	Α	9
500 V	l _e	Α	6.4
660 V 690 V	le	Α	4.8
Motor rating	Р	kWh	
220 V 230 V	Р	kW	2.2
240V	Р	kW	2.5
380 V 400 V	Р	kW	4
415 V	Р	kW	4.3
440 V	P	kW	4.6
500 V	Р	kW	4
660 V 690 V	Р	kW	4
AC-4			
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
Notes			At maximum permissible ambient air temperature.
220 V 230 V	l _e	Α	6.6
240 V		A	6.6
	le		
380 V 400 V	I _e	Α	6.6
415 V	I _e	Α	6.6
440 V	l _e	Α	6.6
500 V	I _e	Α	5
660 V 690 V	I _e	Α	3.4

240 V 00 V 10 V 10 V 10 V 10 V 10 V 10 V	220 V 230 V	Р	kW	1.5
180				
Asi				
Add				
Book				
Section Parameter Parame				
Decinit organizational carrier topes				
Reader of presidential current opens		Р	kW	3
DC-1				
12 V				
1		1	٨	20
100 V				
110 V				
Majorite Systems Majorite Ma		I _e		
Monage to systems Victage to brain race AC apperated AC apperated Doel frequency coil 5000 Me Pick-up x U _c 0.85 - 1.1 Power consumption AC apperation VX 30 Deal-frequency coil 5000 Me to st 50 Me Pick-up VX 30 Deal-frequency coil 5000 Me to st 50 Me Sealing VX 54 Deal-frequency coil 5000 Me at 50 Me Sealing VX 54 Deal-frequency coil 5000 Me at 50 Me Sealing VX 24 Deal-frequency coil 5000 Me at 50 Me Pick-up VX 29 Deal-frequency coil 5000 Me at 50 Me Pick-up VX 29 Deal-frequency coil 5000 Me at 50 Me Pick-up VX 29 Deal-frequency coil 5000 Me at 50 Me Pick-up VX 29 Deal-frequency coil 5000 Me at 50 Me Pick-up VX 29 Deal-frequency coil 5000 Me at 50 Me Pick-up VX 10 Deal-frequency coil 5000 Me at 50 Me Pick-up VX 10 Deal-frequency coil 5000 Me at 50 Me Pick-up V	110 V	I _e	Α	
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AC operated Dash-frequency col 50/80 ft/ Feb. Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL So Dash-frequency col 50/80 ft at 50 ft Pick up VL So Dash-frequency col 50/80 ft at 50 ft Pick up VL So Dash-frequency col 50/80 ft at 50 ft Pick up VL So Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft at 50 ft Pick up VL Dash-frequency col 50/80 ft P				
Dual-frequency coil 5008 Mz Pick-up XU				
Power consumption		D: /		005.44
AC operation Pick-up VA 30		Pick-up	x U _c	0.85 - 1.1
Dual-froquency coil 50/60 Hz at 50 Hz Pick-up VA 50				
Dual-frequency coil 50600 Hz at 50 Hz				
Dual-frequency coil 50/60 Hz at 50 Hz			VA	30
Dual-frequency coil 5080 Hz at 50 Hz			W	26
Dual-frequency coll 5000 Hz at 60 Hz Dual-frequency coll 5000 Hz at 60 Hz at 60 Hz Dual-frequency coll 5000	Dual-frequency coil 50/60 Hz at 50 Hz	Sealing	VA	5.4
Dual-frequency coil 50/60 Hz at 60 Hz Pick-up W 24 Dual-frequency coil 50/60 Hz at 60 Hz Soaling VA 3.9 Dual-frequency coil 50/60 Hz at 60 Hz Soaling W 1.8 Duty factor WU 1.8 10 Switching times at 100 W U _c W Image: Closing delay Min. Image: Closing Min. Image: Closing Min. Image: Closing Min. Image: Closing Min.		Sealing	W	1.8
Dual-frequency coil 50/80 Hz at 60 Hz Sealing VA 39 Dualy-frequency coil 50/80 Hz at 60 Hz Sealing W 18 Dualy-frequency coil 50/80 Hz at 60 Hz Sealing W 10 Switching times at 100 % U _c W 10 Closing delay M 1 Closing delay min. ms 14 Closing delay max. ms 12 Opening delay max. ms 18 Opening delay max. ms 18 Closing delay with top mounting auxiliary contact ms 18 Reversing contactors ms 18 Changeover time at 10 % U _c ms 12 Changeover time max. ms 12 A Cring time at 850 V AC ms 12 Changeover time at 10 % U _c ms 12 Turnet heat losses (3- or 4-pole) ms 12 at I _t to AC-3/400 V y 12 Impedance per pole ms 12 Auxiliary contacts y 12 Possi		Pick-up	VA	29
Dual-frequency coil 50/60 Hz at 60 Hz Sealing W 1.8	Dual-frequency coil 50/60 Hz at 60 Hz	Pick-up	W	24
Duty factor % DF 100 Switching times at 100 % U _c	Dual-frequency coil 50/60 Hz at 60 Hz	Sealing	VA	3.9
Switching times at 100 % U _c ms Make contact ms Closing delay ms Closing delay min. ms Closing delay max. ms Opening delay min. ms Opening delay min. ms Opening delay max. ms Closing delay with top mounting auxiliary contact ms Reversing contactors ms Changeover time at 110 % U _c ms Changeover time max. ms Aching time at 680 V AC ms Current heat losses (3- or 4-pole) 12 at I _B , 50 °C W at I _B , 50 °C W Impedance per pole m0 Auxiliary contacts W Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module W Rated impulse withstand voltage U _{imp} V AC Rated inpulse withstand voltage U _i V AC Rated insulation voltage U _i V AC Rated insulation voltage U _i V AC Rated insulation voltage	Dual-frequency coil 50/60 Hz at 60 Hz	Sealing	W	1.8
Make contact ms Closing delay ms Closing delay min. ms 14 Closing delay max. ms 21 Opening delay min. ms 8 Opening delay min. ms 8 Opening delay max. ms 18 Closing delay with top mounting auxiliary contact ms 45 Reversing contactors ms 45 Changeover time at 110 % U _c ms 16 Changeover time min. ms 16 Changeover time max. ms 12 Arcing time at 890 VAC ms 12 Current heat losses (3- or 4-pole) W 5 at l ₀ to AC-3/400 V W 5 at l ₀ to AC-3/400 V W 12 Impedance per pole MQ 9.18 Auxiliary contacts Yes Rated impulse withstand voltage U _{mp} VAC 6000 Overvoltage category/pollution degree III/3 8 Rated operational voltage U _m <td< td=""><td>Duty factor</td><td></td><td>% DF</td><td>100</td></td<>	Duty factor		% DF	100
Closing delay min.	Switching times at 100 % U _c			
Closing delay min. Closing delay max. Opening delay Opening delay min. Ins 8 8 Closing delay win. Ins 9 8 Closing delay min. Ins 9 In	Make contact		ms	
Closing delay max. Opening delay min. Opening delay min. Opening delay max. Mis 8 Closing delay max. Mis 18 Closing delay with top mounting auxiliary contact Reversing contactors Changeover time at 110 % U _c Changeover time min. Changeover time max. Arcing time at 690 V AC Current heat losses (3- or 4-pole) at I _{th} , 50 °C W 5.9 at I _c to AC-3/400 V Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage U _{imp} V AC Rated operational voltage U _i V AC Roo Rated operational voltage U _i V AC Rated operational voltage U _i V AC Rated operational voltage U _i V AC Rated operational voltage	Closing delay		ms	
Opening delay min. Opening delay max. Closing delay with top mounting auxiliary contact Reversing contactors Changeover time at 110 % U _c Changeover time min. Changeover time max. Arcing time at 690 V AC Current heat losses (3- or 4-pole) at I _{th} , 50 °C Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated inpulse withstand voltage Rated insulation voltage Rated operational voltage Verently a voltage of the v	Closing delay min.		ms	14
Opening delay min. Opening delay max. Closing delay with top mounting auxiliary contact Reversing contactors Changeover time at 110 % U _c Changeover time min. Changeover time max. Arcing time at 690 V AC Current heat losses (3- or 4-pole) at I _{th} , 50 °C at I _e to AC-3/400 V Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Quinpub Auxiliary contacts Rated impulse withstand voltage Ui VAC Rated operational voltage Rated operational voltage Rated operational voltage VAC 600 Rated operational voltage VAC 600 VAC 600	Closing delay max.		ms	21
Opening delay max. Closing delay with top mounting auxiliary contact Reversing contactors Changeover time at 110 % U _c Changeover time min. Changeover time max. Arcing time at 590 V AC Current heat losses (3- or 4-pole) at I _{th} , 50 °C at I _e to AC-3/400 V Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Overvoltage category/pollution degree Rated insulation voltage Rated operational voltage Ve VAC 6000 Rated operational voltage Ve VAC 6000 Rated operational voltage Ve VAC 6000	Opening delay		ms	
Closing delay with top mounting auxiliary contact Reversing contactors Changeover time at 110 % U _c Changeover time at 110 % U _c Ms 16 Changeover time max. Arcing time at 890 V AC Current heat losses (3- or 4-pole) at l _{th} , 50 °C at l _q to AC-3/400 V Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage Overvoltage category/pollution degree Rated operational voltage V AC Bo V AC G00 Rated operational voltage V AC G00 Rated operational voltage V AC G00 Rated operational voltage V AC G00	Opening delay min.		ms	8
Reversing contactors Changeover time at 110 % U _c Changeover time min. Changeover time max. Arcing time at 690 V AC Current heat losses (3- or 4-pole) at I _{th} , 50 °C At I _g to AC-3/400 V Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage Overvoltage category/pollution degree Rated insulation voltage Rated operational voltage Ve VAC 600 Rated operational voltage Ve VAC 600 Rated operational voltage	Opening delay max.		ms	18
Changeover time at 110 % U _c Changeover time min. Changeover time max. Arcing time at 690 V AC Current heat losses (3- or 4-pole) at I _{th} , 50 °C At I _e to AC-3/400 V Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage Queryoltage category/pollution degree Rated operational voltage Rated operational voltage Rated operational voltage U _e V AC 600 Rated operational voltage U _e V AC 600 Rated operational voltage U _e V AC 600	Closing delay with top mounting auxiliary contact		ms	45
Changeover time min. Changeover time max. Arcing time at 690 V AC Current heat losses (3- or 4-pole) at I _{th} , 50 °C at I _e to AC-3/400 V Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage Overvoltage category/pollution degree Rated operational voltage Rated operational voltage U _e V AC Mms 21 S.9 S.9 S.9 S.9 S.9 S.9 S.9 S.	Reversing contactors			
Changeover time max. Arcing time at 690 V AC Current heat losses (3- or 4-pole) at I _{th} , 50 °C at I _g to AC-3/400 V Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage Uimp V AC 6000 Rated operational voltage Ui V AC 690 Rated operational voltage Ue V AC 600	Changeover time at 110 % $\mathrm{U_{c}}$			
Arcing time at 690 V AC Current heat losses (3- or 4-pole) at I _{th} , 50 °C	Changeover time min.		ms	16
Current heat losses (3- or 4-pole) at I _{th} , 50 °C at I _e to AC-3/400 V Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage Overvoltage category/pollution degree Rated operational voltage U _i V AC 600 Rated operational voltage U _e V AC 600	Changeover time max.		ms	21
at I _{th} , 50 °C at I _e to AC-3/400 V Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage Overvoltage category/pollution degree Rated operational voltage U _i V AC 600 Rated operational voltage U _e V AC 600			ms	12
at I _e to AC-3/400 V Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage Uimp V AC 6000 Overvoltage category/pollution degree Rated operational voltage Ui V AC 600 Rated operational voltage Ue V AC 600				
Impedance per pole Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage Uimp V AC 6000 Overvoltage category/pollution degree Rated insulation voltage Ui V AC 690 Rated operational voltage Ue V AC 600				
Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage Overvoltage category/pollution degree Rated insulation voltage Ui V AC 600 Rated operational voltage Ue V AC 600			W	1.2
Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module Rated impulse withstand voltage Uimp V AC 6000 Overvoltage category/pollution degree Rated insulation voltage Ui V AC 690 Rated operational voltage Ue V AC 600			mΩ	9.18
module Rated impulse withstand voltage Overvoltage category/pollution degree Rated insulation voltage Ui VAC 6000 III/3 Rated operational voltage Ue VAC 600				V _r -
Overvoltage category/pollution degree III/3 Rated insulation voltage U _i V AC 690 Rated operational voltage U _e V AC 600				Yes
Rated insulation voltage U _i V AC 690 Rated operational voltage U _e V AC 600	Rated impulse withstand voltage	U _{imp}	V AC	6000
Rated operational voltage U _e V AC 600	Overvoltage category/pollution degree			III/3
	Rated insulation voltage	Ui	V AC	690
Safe isolation to EN 61140	Rated operational voltage	U _e	V AC	600
	Safe isolation to EN 61140			

hatwaan cail and auxiliary contacts		V AC	300
between coil and auxiliary contacts between the auxiliary contacts		V AC	300
		V AC	300
Rated operational current AC-15			
220 V 240 V		Α	6
	l _e		
380 V 415 V	l _e	A	3
500 V	I _e	Α	1.5
DC L/R ≦ 15 ms			
Contacts in series:		A	
1	24 V	A	2.5
2	60 V	A	2.5
3	100 V	A	1.5
3	220 V	A	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			
$L/R = 50$ ms: 2 contacts in series at $I_e = 0.5$ 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		НР	3
240 V 460 V			
480 V		HP	5
575 V 600 V		HP	5
Single-phase			
115 V 120 V		НР	0.5
230 V 240 V		НР	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	А	45

Design verification as per IEC/EN 61439

Design verincation as per illo/liv 01455			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	9
Heat dissipation per pole, current-dependent	P _{vid}	W	0.4
Equipment heat dissipation, current-dependent	P _{vid}	W	1.2
Static heat dissipation, non-current-dependent	P _{vs}	W	1.8
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.

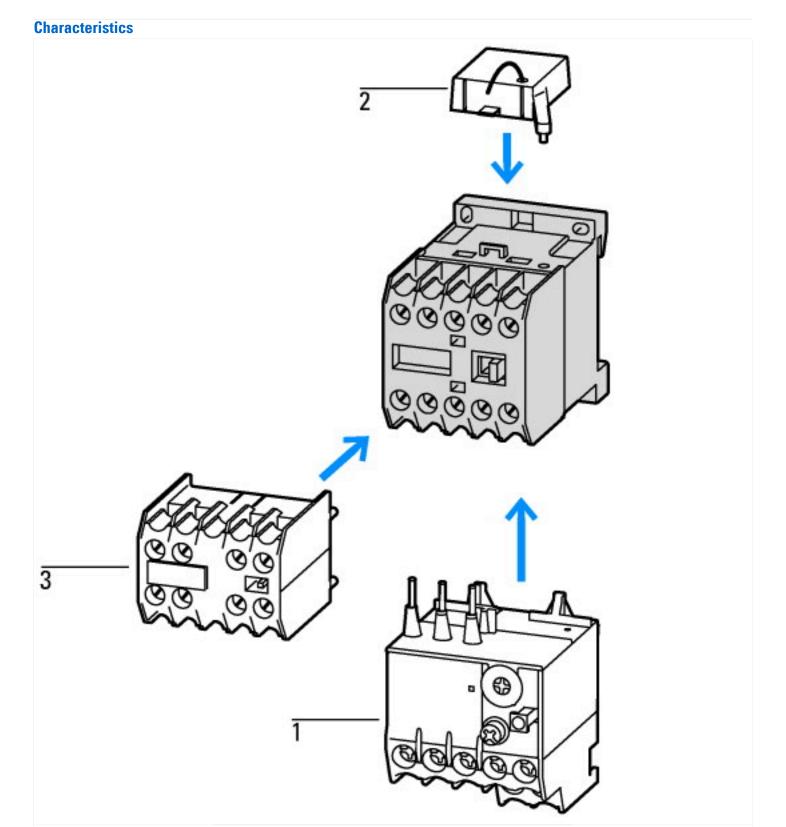
Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)			
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		٧	380 - 380
Rated control supply voltage Us at AC 60HZ		٧	380 - 380
Rated control supply voltage Us at DC		٧	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

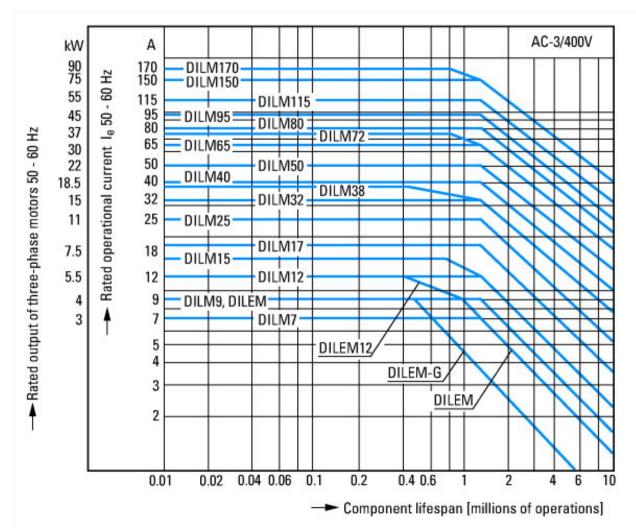
Number of auxiliary contacts as normally closed contact	0
Type of electrical connection of main circuit	Screw connection
Number of normally closed contacts as main contact	0
Number of main contacts as normally open contact	3

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



- 1: Overload relay 2: Suppressor 3: Auxiliary contact modules Enclosure totally insulated



Normal AC induction motor Operating characteristics Switch on: from stop Switch off: during run Electrical characteristics: Switch on: up to 6 x Rated motor current Switch off: up to 1 x Rated motor current Utility category 100 % AC-3 Typical Applications Compressors

Lifts

Mixers Pumps

Escalators Agitators

fan

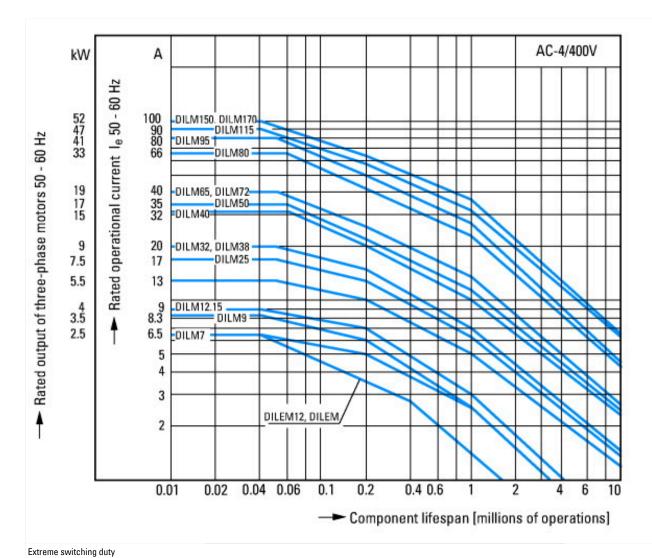
Conveyor belts

Centrifuges Hinged flaps

Bucket-elevator

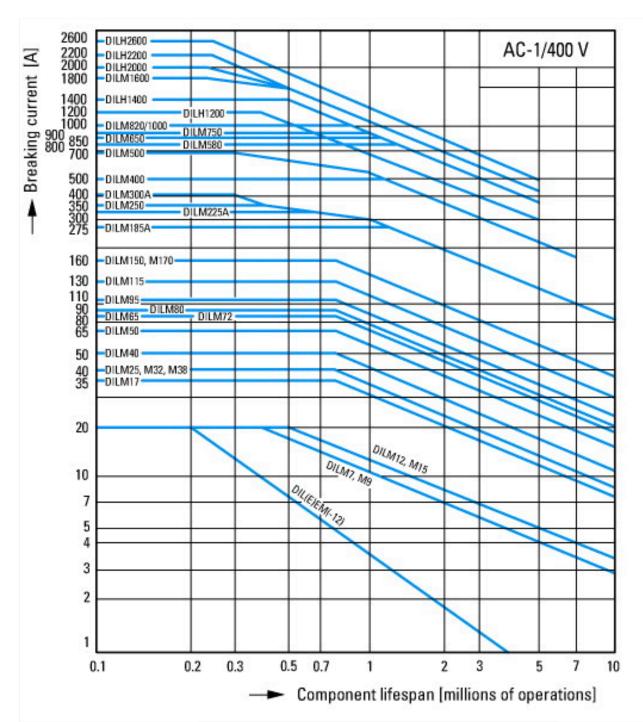
Air-conditioning systems

General drives for manufacturing and processing machines



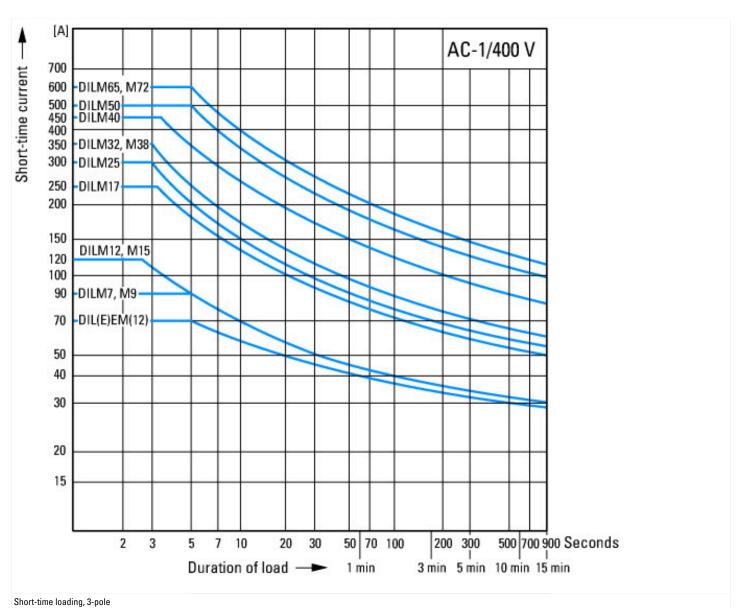
Squirrel-cage motor
Operating characteristics
Inching, plugging, reversing
Electrical characteristics
Make: up to 6 x rated motor current
Break: up to 6 x rated motor current
Utilization category
100 % AC-4
Typical applications
Printing presses
Wire-drawing machines
Centrifuges

Special drives for manufacturing and processing machines



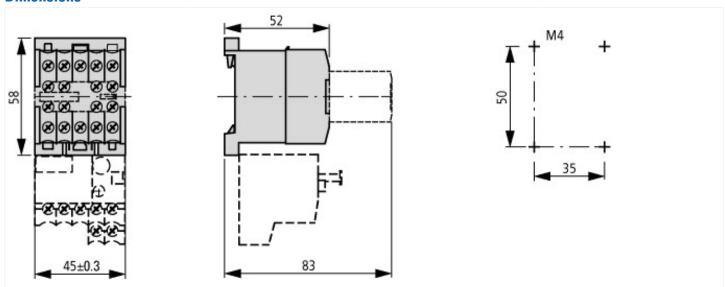
Switching duty for non-motor loads, 3-pole, 4-pole Operating characteristics
Non-inductive or slightly inductive loads
Electrical characteristics
Make: 1 x rated current
Break: 1 x rated current
Utilization category
100 % AC-1

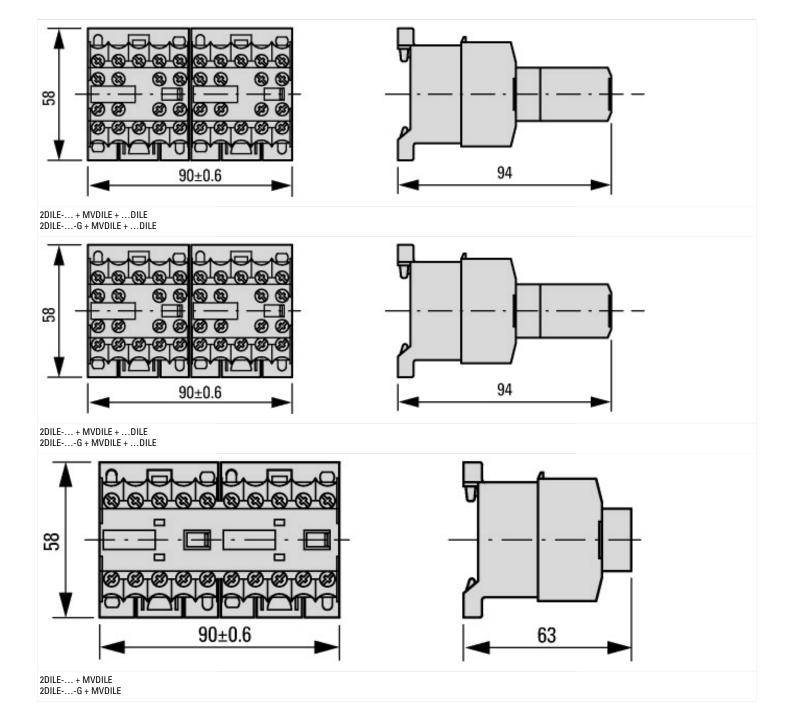
Typical applications Electric heat



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