

Contactor, 3p+1N/0, 4kW/400V/AC3

Part no. Article no.

Catalog No.

DILEM-10-G-C(220VDC) 231672 XTMCC9A10BD



Delivery program

Subrange Ublization category AC-1: Non-inductive or slightly inductive loads, resistance furnees NAC-5: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, pluggin	Delivery program			
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NAC-S-Normal AC induction incotors: starting, switch all during running AC-R-Normal AC induction incotors: starting, switch all during running AC-R-Normal AC induction incotors: starting, plugging, reversing, inching a content of the chinque beautiful and the content of the chinque beautiful and the content of pieles are the content of pieles and the content of pieles and the content of pieles are the content of pieles and the content of pieles are the content of pieles and the content of pieles are the content of pieles and the content of pieles are the content of pieles and the content of pieles are the content of pieles and the content of pieles are the content of pieles and the content of pieles are the content of pieles and the con	Subrange			DILEM contactors
	Utilization category			NAC-3: Normal AC induction motors: starting, switch off during running
				IE3 ✓
Description Number of poles Rated operational current AC-3 380 V 400 V Ie A 9 AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C Ie A 22 Max. rating for three-phase motors, 50 - 60 Hz 220 V 230 V 6660 V 680 V P KW 4 6660 V 680 V P KW 4 AC-4 220 V 230 V F KW 15 380 V 400 V P KW 3 Contacts equence NO = Normally open Contact sequence For use with For use with AC-4 Conventional free air thermal current, 3 pole, 50 - 60 Hz Ie A 9 With auxiliary contact 3 pole W Call AC 9 9 AC 9 9 AC 9 AC 22 22 22 22 22 22 22 22 22 22	Notes			
Number of poles 3 pole Rated operational current AC-3 380 V 400 V I ₀ A 9 AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Conventional free air thermal current, 3 pole, 50 - 60 Hz Convent	Connection technique			Spring-loaded terminals
AC-3 380 V 400 V I _e A 9 AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz V V A 22 Open at 40 °C I _{th} = I _e A 22 Max. rating for three-phase motors, 50 - 60 Hz V AC-3 V AC-3 V AC-3 AC-3 AC-3 AC-3 AC-3 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-3 AC-4	Description			With auxiliary contact
AC-3 380 V 400 V AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C Max. rating for three-phase motors, 50 - 60 Hz AC-3 20 V 230 V P W W 4 660 V 690 V P W 4 AC-4 220 V 230 V P W W 4 AC-4 220 V 230 V P W W 3 380 V 400 V P W 3 660 V 690 V P W 3 Contact sequence N/O = Normally open Contact sequence For use with AC-4 Contact sequence	Number of poles			3 pole
AC-1	Rated operational current			
AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C 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 4 220 V 230 V P KW 5 660 V 690 V P KW 3 660 V 690 V P KW 3 660 V 690 V P KW 3 Contacts N/O = Normally open Contacts N/O = Normally open For use with For use with AC-4 Conventional free air thermal current, 3 pole, 50 - 60 Hz Lin = 0 AC-4 1 N/O 1 N/O AC-4 AC	AC-3			
Conventional free air thermal current, 3 pole, 50 - 60 Hz	380 V 400 V	I _e	Α	9
Open	AC-1			
At 40 °C	Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Max. rating for three-phase motors, 50 - 60 Hz Residual content of the content o	Open			
AC-3 220 V 230 V P	at 40 °C	$I_{th} = I_e$	Α	22
220 V 230 V P	Max. rating for three-phase motors, 50 - 60 Hz			
Residual content of the sequence P	AC-3			
660 V 690 V AC-4 220 V 230 V P	220 V 230 V	P	kW	2.2
AC-4 220 V 230 V P	380 V 400 V	P	kW	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 A1 1 3 5 13 A2 2 4 4 6 14 DILEM-C DILEM-C DILEC-C Actuating voltage 220 V DC	660 V 690 V	P	kW	4
380 V 400 V P kW 3 Contacts N/0 = Normally open Contact sequence For use with Actuating voltage P kW 3 AU 4 AU 4 AU 5 AU 5 AU 5 AU 5 AU 5 AU 6 AU 6 AU 6 AU 5 AU 5 AU 6 AU 5 AU 6 AU 5 AU 6 AU 6 AU 6 AU 6 AU 7	AC-4			
660 V 690 V P kW 3 Contacts N/0 = Normally open 1 N/0 Contact sequence 1 N/0 For use with DILEM-CDILEM-CDILEC-C Actuating voltage 220 V DC	220 V 230 V	P	kW	1.5
Contacts N/0 = Normally open 1 N/0 Contact sequence A1 1 3 5 13 A2 2 4 6 14 For use with DILEM-CDILEC-C Actuating voltage 220 V DC	380 V 400 V	Р	kW	3
N/O = Normally open Contact sequence A1 1 3 5 13 A2 2 4 6 14 For use with Actuating voltage 1 N/O And 1 1 3 5 13 And 2 2 4 6 14 Contact sequence Actuality soltage 220 V DC	660 V 690 V	Р	kW	3
Contact sequence A1 1 3 5 13 A2 2 4 6 14 For use with DILEM-CDILE-C Actuating voltage 220 V DC	Contacts			
For use withDILEM-CDILE-C Actuating voltage 220 V DC	N/O = Normally open			1 N/O
Actuating voltageDILE-C 220 V DC	Contact sequence			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	For use with			
Voltage AC/DC DC operation	Actuating voltage			220 V DC
	Voltage AC/DC			DC operation

Technical data

General

donorui			
Standards			IEC/EN 60947, VDE 0660, CSA, UL
Lifespan, mechanical	Operations	x 10 ⁶	20
Maximum operating frequency			
Mechanical		Ops./h	9000
electrical (Contactors without overload relay)	Operations/h		Page 05/070
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature			
Open		°C	-25 - +50
Enclosed		°C	- 25 - 40
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	10/8
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
Weight		kg	0.17
Terminal capacity of auxiliary and main contacts			
Screw terminals			
Solid or stranded		AWG	18 - 14
Spring-loaded terminals			
Flexible with ferrule		mm ²	1 x (1 - 2.5) 2 x (1 - 2.5)
Standard screwdriver		mm	0.6 x 3.5
Main conducting paths		V 40	2000
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 capacity (cos φ to IEC/EN 60947)		Α	110
Breaking capacity			
220 V 230 V		A	90
380 V 400 V		A	90
500 V		A	64
660 V 690 V		Α	42
Short-circuit protection maximum fuse	ml /m C	Δ.	10
Type "1" coordination	gL/gG	A	10
Type "1" coordination AC	gL/gG	Α	20
AC-1			
Rated operational current			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	I _{th} =I _e	A	22
	-		

at 50 °C	$I_{th} = I_e$	Α	20
at 55 °C	$I_{th} = I_e$	Α	19
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	-111		
Rated operational current			
Open, 3-pole: 50 – 60 Hz			At an artist of the section of the s
Notes 220 V 230 V			At maximum permissible ambient air temperature.
	I _e	Α	9
240 V	I _e	Α	9
380 V 400 V	I _e	Α	9
415 V	l _e	Α	9
440V	I _e	Α	9
500 V	I _e	Α	6.4
660 V 690 V	I _e	Α	4.8
Motor rating	P	kWh	
220 V 230 V	P	kW	2.2
240V	P	kW	2.5
380 V 400 V	P	kW	4
415 V	P	kW	4.3
440 V	P	kW	4.6
500 V	P	kW	4
660 V 690 V	P	kW	
AC-4	-	KVV	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	l _e	Α	6.6
380 V 400 V	l _e	Α	6.6
415 V	l _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
Motor rating	P	kWh	
220 V 230 V	P	kW	1.5
240 V	P	kW	1.8
380 V 400 V	P	kW	3
	P	kW	3.1
415 V	P		
440 V		kW	3.3
500 V	P	kW	3
660 V 690 V	Р	kW	3
Rated operational current open			
DC-1			
12 V		A	20
	l _e		
24 V	I _e	Α	20
60 V	I _e	Α	20
110 V	I _e	Α	20
220 V	l _e	Α	20

DC - 3			
12 V	l _e	Α	8
24 V	l _e	Α	8
60 V	l _e	Α	4
110 V	I _e	Α	3
DC - 5			
12 V	I _e	Α	2.5
24 V	I _e	Α	2.5
60 V	I _e	Α	2.5
110 V	I _e	Α	1.5
220 V	I _e	A	0.3
Current heat losses (3- or 4-pole)	·e		
to I _{th}		W	3.5
			0.7
at I _e to AC-3/400 V Magnet systems		W	0.7
Voltage tolerance			
DC operated			
Pick-up voltage			0.8 1.1
Power consumption			
DC operation			
Power consumption Pick-up = Sealing		VA/W	2.6
Notes		VA/VV	Smoothed DC voltage or three-phase bridge rectifier
Duty factor		% DF	100
Switching times at 100 % U _c		/0 DI	100
Make contact		ms	
Closing delay		ms	00
Closing delay min.		ms	26
Closing delay max.		ms	35
Opening delay		ms	15
Opening delay min.		ms	15
Opening delay max.		ms	25
Closing delay with top mounting auxiliary contact		ms	max. 70
Reversing contactors			
Changeover time at 110 % $\rm U_{\rm C}$			
Changeover time min.		ms	40
Changeover time max.		ms	50
Arcing time at 690 V AC		ms	max. 12
Auxiliary contacts Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact	t		Yes
module			
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree			111/3
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
between the auxiliary contacts		V AC	300
Rated operational current			
AC-15			
220 V 240 V	I _e	A	6
380 V 415 V	I _e	A	3
500 V		A	1.5
	l _e	^	1.0
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 Ue = 24 V DC, Umin = 17 V, Imin = 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	0.3

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	9
Heat dissipation per pole, current-dependent	P _{vid}	W	0.3
Equipment heat dissipation, current-dependent	P _{vid}	W	0.9
Static heat dissipation, non-current-dependent	P _{vs}	W	2.3
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.

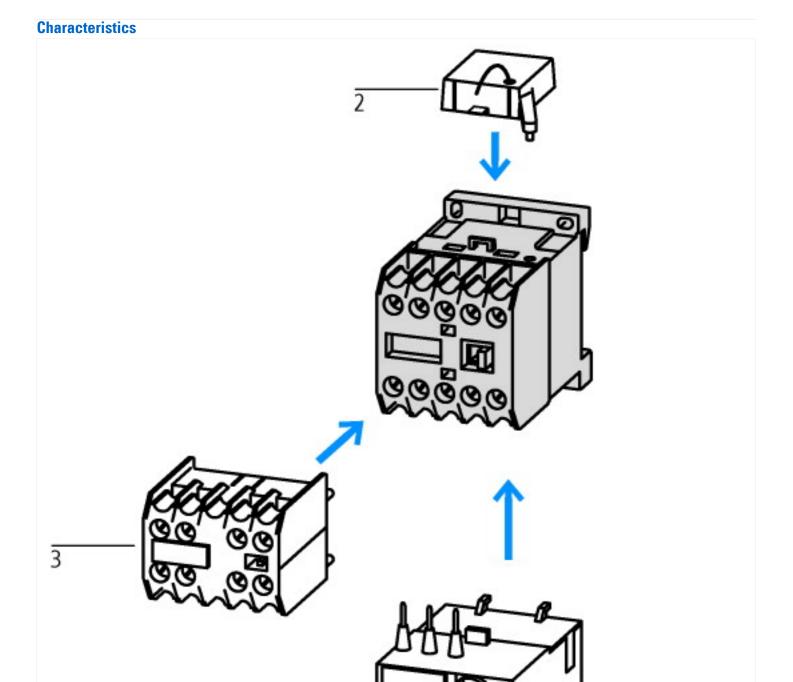
Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)				
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss8.1-27-37-10-03 [AAB718012])				
Rated control supply voltage Us at AC 50HZ		٧	0 - 0	
Rated control supply voltage Us at AC 60HZ		٧	0 - 0	
Rated control supply voltage Us at DC		٧	220 - 220	
Voltage type for actuating			DC	
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 le at AC-4, 400 V		kW	3	
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			Spring clamp connection	
Number of normally closed contacts as main contact			0	
Number of main contacts as normally open contact			3	

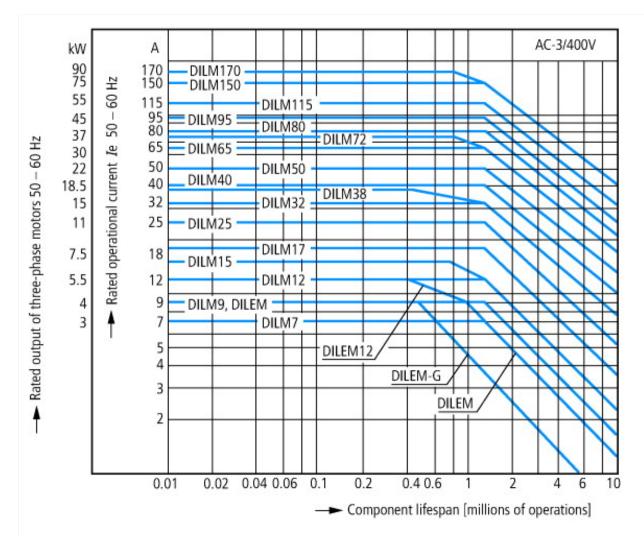
Approvals

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

12/15/2016 231672 - HPL-ED2016 V27.0 EN 6/12



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



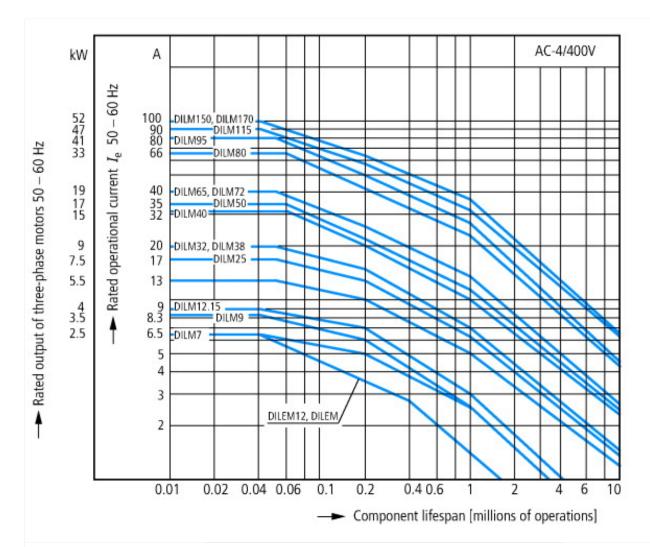
Squirrel-cage motor Operating characteristics Starting:from rest Stopping:after attaining full running speed Electrical characteristics Make: up to 6 x rated motor current Break: up to 1 x rated motor current Utilization category 100 % AC-3 Typical applications Compressors Lifts Mixers Pumps Escalators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

Fans Conveyor belts Centrifuges

Hinged flaps Bucket-elevators

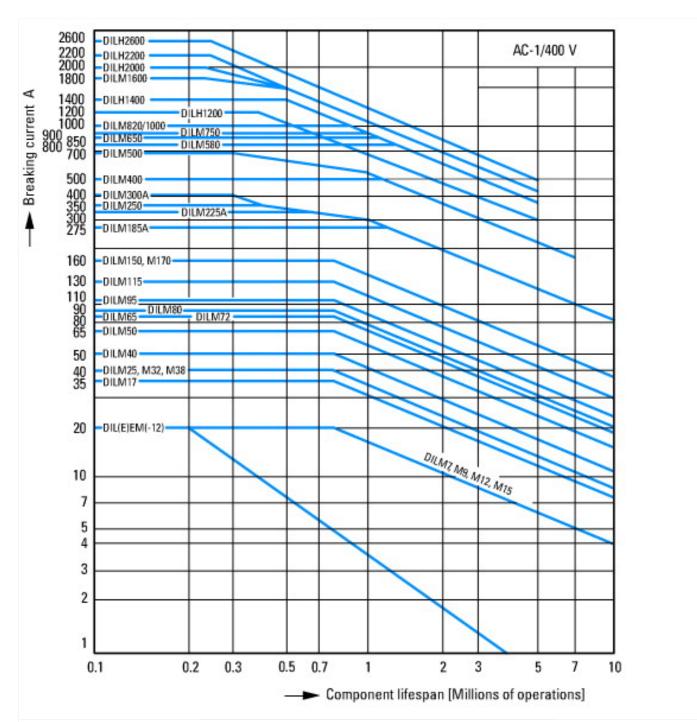
Air conditioning system

General drives in manufacturing and processing machines



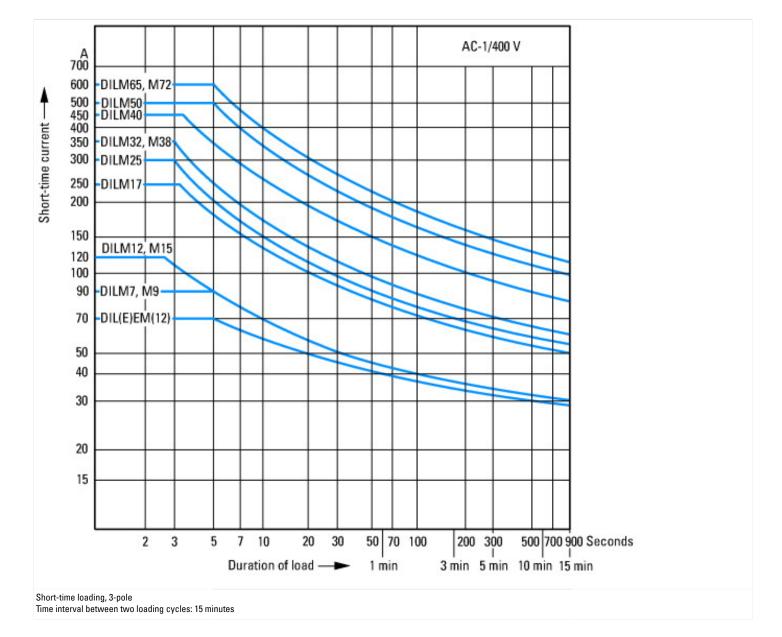
Extreme switching duty Squirrel-cage motor Operating characteristics Inching, plugging, reversing Electrical characteristics Make: up to 6 x rated motor current Break: up to 6 x rated motor current Utilization category 100 % AC-4 Typical applications Printing presses Wire-drawing machines Centrifuges

Special drives for manufacturing and processing machines

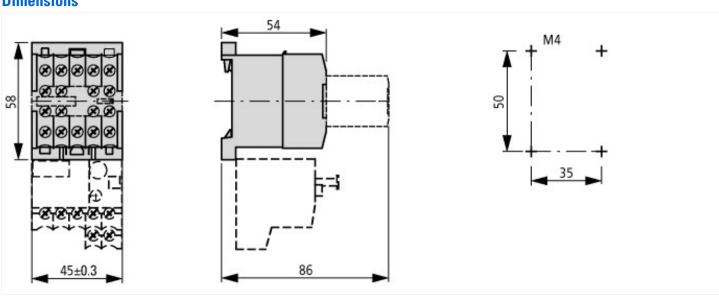


Switching duty for non-motor loads, 3-pole, 4-pole Operating characteristics
Non-inductive or slightly inductive loads
Electrical characteristics
Make: 1 x rated current
Break: 1 x rated current
Utilization category
100 % AC-1
Typical applications

Electric heat



Dimensions



Additional product information (links)

IL03407009Z (AWA2100-0882) mini contactor relay			
IL03407009Z (AWA2100-0882) mini contactor relay	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407009Z2016_03.pdf		
UL/CSA: Approved rating data	http://de.ecat.moeller.net/flip-cat/?edition=HPLTE&startpage=5.84		