DATASHEET - DILEM-01(380V50HZ,440V60HZ)



Contactor, 380 V 50 Hz, 440 V 60 Hz, 3 pole, 380 V 400 V, 4 kW, Contacts N/C = Normally closed= 1 NC, Screw terminals, AC operation



DILEM-01(380V50HZ,440V60HZ) Part no.

051796 Catalog No. **Alternate Catalog** XTMC9A01L

No.

EL-Nummer 4130383

(Norway)

Deliv	ery	pro	gra	Ш
Product	range			

Application Subrange Utilization category With auditory clear at thermal current, 3 pole, 50 - 60 Hz Quencion three-phase motors, 50 - 60 Hz AC-3 20 V 20	Delivery program			
Subrange Ublization category Libration categ	Product range			Contactors
Discrete or signify indicates larger and a control or an article of the state of	Application			Mini Contactors for Motors and Resistive Loads
AC-34/C-3e. Normal AC induction motors: Starring, whiching off while ranning AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching a AC+4. Normal AC induction motors: starring, plugging, roversing, inching all actions are identified by the loga can their packaging. AC+4 Normal AC induction motors: starring, plugging, roversing, inching all actions are identified by the loga can be action and inching and action motors: starring, plugging, roversing in AC+9. Note that in their packaging. AC+4 Normal AC induction motors: starring, plugging, roversing in AC+9. Note that in their packaging. AC+4 Note that	Subrange			DILEM contactors
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 Description Number of poles Rated operational current AC-3 380 V 400 V AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz 0pen 0pen 0pen 0pen 0pen 0pen 0pen 0pe	Utilization category			AC-3/AC-3e: Normal AC induction motors: Starting, switching off while running
				IE3 ✓
Description With auxiliary contact Number of poles With auxiliary contact Rated operational current Poles 3 pole AC-3 380 V 400 V In Conventional free air thermal current, 3 pole, 50 - 60 Hz In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In In Conventional free air thermal current, 3 pole, 50 - 60 Hz In I	Notes			IE3-ready devices are identified by the logo on their packaging.
Number of poles Rated operational current AC-3 Second process Permitted process AC-1 Permitted process Permitted process Permitted process AC-1 Permitted process AC-2	Connection technique			Screw terminals
Rated operational current AC-3 380 V 400 V Ie A 9 AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Ie A 22 Open Ie Ie A 22 Max. rating for three-phase motors, 50 - 60 Hz V 220 V 230 V V AC-3 380 V 400 V P kW 4 4 660 V 680 V P kW 4 4 220 V 230 V P kW 4 4 4C-4 220 V 230 V P kW 3 4 660 V 690 V P kW 3 3 4 Contacts NC = Normally closed I NC AI I I I I I I I I I	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-3 220 V 230 V P kW 22 380 V 400 V P kW 4 4 4 4 4 4 4 4 4 4 4 4 4	Number of poles			3 pole
AC-1	Rated operational current			
AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz 1	AC-3			
Conventional free air thermal current, 3 pole, 50 - 60 Hz In = Ie A 22 Max. rating for three-phase motors, 50 - 60 Hz P kW 2.2 220 V 230 V P kW 4 380 V 400 V P kW 4 660 V 690 V P kW 4 AC-4 V 1.5 220 V 230 V P kW 3 380 V 400 V P kW 3 660 V 680 V P kW 3 Contacts N/C = Normally closed INC A1 1 1 3 15 121 1 1 3 15 121 1 1 1 1 3 15 121 1 1 1 1 3 15 121 1 1 1 3 15 121 1 1 1 3 15 121 1 1 1 3 15 121 1 1 1 3 15 121 1 1 1 3 15 121 1 1 1 3 15 121 1 1 1 3 15 121 1 1 1 3 15 121 1 1 1 3 15 121 1 1 1 3 15 121 1 1 1 1 3 15 121 1 1 1 1 3 1 5 121 1 1 1 1 3 1 5 121 1 1 1 1 3 1 5 121 1 1 1 1 3 1 5 121 1 1 1 1 3 1 5 121 1 1 1 1 3 1 5 121 1 1 1 1 3	380 V 400 V	I _e	Α	9
Open at 40 °C I _{II} = I _R A 22 Max. rating for three-phase motors, 50 - 60 Hz AC-3 F kW 2.2 220 V 230 V P kW 4 380 V 400 V P kW 4 AC-4 F kW 1.5 220 V 230 V P kW 3 380 V 400 V P kW 3 660 V 690 V P kW 3 Contacts INC A1 I I I 3 I 5 I 21 I I 3 I 5 I 21 I I A 2 I I I I 3 I 5 I 21 I I A 2 I I I I 3 I 5 I 21 I I I A 2 I I I I 3 I 5 I 21 I I I I 3 I 5 I 21 I I I I 3 I 5 I 21 I I I I 3 I 5 I 21 I I I I 3 I 5 I 21 I I I I I 3 I 5 I 21 I I I I I 3 I 5 I 21 I I I I I 3 I 5 I 21 I I I I I I I I I I I I I I I I I	AC-1			
Max. rating for three-phase motors, 50 - 60 Hz No. 3 No. 3 <th< td=""><td>Conventional free air thermal current, 3 pole, 50 - 60 Hz</td><td></td><td></td><td></td></th<>	Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Max. rating for three-phase motors, 50 - 60 Hz Contacts Contact sequence Political sequence Row N/C = Normally closed Political sequence N/C = Normally closed Inc Dille Act of the place of the	Open			
AC-3 220 V 230 V 380 V 400 V 660 V 690 V AC-4 220 V 230 V P KW 4 4 4 4 4 4 4 4 4 4 4 4 4	at 40 °C	$I_{th} = I_e$	Α	22
220 V 230 V	Max. rating for three-phase motors, 50 - 60 Hz			
380 V 400 V P KW 4 660 V 690 V P KW 4 AC-4	AC-3			
660 V 690 V AC-4 220 V 230 V 8	220 V 230 V	Р	kW	2.2
AC-4 220 V 230 V 380 V 400 V 660 V 690 V Contacts N/C = Normally closed Contact sequence For use with Actuating voltage N/C = Normally closed N/C = Normally clos	380 V 400 V	Р	kW	4
220 V 230 V P kW 1.5 380 V 400 V P kW 3 660 V 690 V For use with INC Contacts INC Actuating voltage INC INC INC INC INC INC INC INC INC INDILE INDILE 380 V 50 Hz, 440 V 60 Hz	660 V 690 V	P	kW	4
380 V 400 V P kW 3 Contacts N/C = Normally closed Contact sequence For use with Actuating voltage P kW 3 1 NC 1 NC 1 NC 1 NC 1 NC 380 V 50 Hz, 440 V 60 Hz	AC-4			
660 V 690 V P kW 3 Contacts N/C = Normally closed 1 NC Contact sequence A1 11 3 15 121	220 V 230 V	P	kW	1.5
Contacts N/C = Normally closed 1 NC Contact sequence A1 11 13 15 121 A2 2 4 6 22 For use with Actuating voltage 380 V 50 Hz, 440 V 60 Hz	380 V 400 V	P	kW	3
N/C = Normally closed Contact sequence For use with Actuating voltage 1 NC A1 1 1 3 15 121 A2 2 4 6 22 DILE 380 V 50 Hz, 440 V 60 Hz	660 V 690 V	Р	kW	3
Contact sequence A1 1 1 3 15 121 A2 2 4 6 22 For use with Actuating voltage DILE 380 V 50 Hz, 440 V 60 Hz	Contacts			
For use withDILE Actuating voltageDILE	N/C = Normally closed			1 NC
Actuating voltage 380 V 50 Hz, 440 V 60 Hz	Contact sequence			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	For use with			DILE
Voltage AC/DC AC operation	Actuating voltage			380 V 50 Hz, 440 V 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	Page 05/070
Climatic proofing	operations/ii		Damp heat, constant, to IEC 60068-2-78
ominate proofing			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	
Break contact		g	10
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)
Sullu		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 x 5.5
			1 x 6
Max. tightening torque		Nm	1.2
Main conducting paths Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree	∼ımp	V AU	III/3
Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U _e	V AC	690
Safe isolation to EN 61140	o _e	V AC	0.00
between coil and contacts		V AC	300
		V AC	
between the contacts		v AU	300

Making capacity (cos φ to IEC/EN 60947)		Α	110
Breaking capacity		A	110
220 V 230 V		۸	90
380 V 400 V		A	90
500 V		A	64
660 V 690 V		A	42
Short-circuit protection maximum fuse		A	**
Type "2", 500 V	gL/gG	A	10
Type "1", 500 V	gL/gG	A	20
AC	91,90	^	
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
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}	A	50
enclosed	I _{th}	Α	40
AC-3	ui		
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	l _e	Α	9
380 V 400 V	l _e	Α	9
415 V	l _e	Α	9
440V	l _e	Α	9
500 V	le	Α	6.4
660 V 690 V	l _e	Α	4.8
Motor rating	Р	kWh	
220 V 230 V	Р	kW	2.2
240V	Р	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	4
AC-4			
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
Notes			At maximum permissible ambient air temperature.
220 V 230 V	le	Α	6.6
240 V	l _e	Α	6.6
380 V 400 V	l _e	Α	6.6
415 V	I _e	Α	6.6
440 V	I _e	Α	6.6
500 V	I _e	Α	5
660 V 690 V			3.4
990 A 930 A	I _e	A	5.4

Motor rating	P	kWh	
220 V 230 V	Р	kW	1.5
240 V	Р	kW	1.8
380 V 400 V	Р	kW	3
415 V	Р	kW	3.1
440 V	Р	kW	3.3
500 V	P	kW	3
660 V 690 V	Р	kW	3
DC			
Rated operational current open			
DC-1			
12 V	l _e	Α	20
24 V	l _e	Α	20
60 V	l _e	Α	20
110 V	l _e	Α	20
220 V	l _e	Α	20
Magnet systems			
Voltage tolerance			
AC operated			
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Pick-up	x U _c	0.8 - 1.1
Dual-frequency coil 50/60 Hz	Pick-up	x U _c	
Voltage tolerance Dual-frequency coil 50/60 Hz, max. pick-up voltage		x U _c	1.1
Power consumption			
AC operation			
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Pick-up	VA	25
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Pick-up	W	22
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Sealing	VA	4.6
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Sealing	W	1.8
Duty factor		% DF	100
Switching times at 100 % $U_{\rm c}$			
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 % $\rm U_{\rm C}$			
Changeover time min.		ms	16
Changeover time max.		ms	21
Arcing time at 690 V AC		ms	12
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
Impedance per pole		mΩ	9.18
Auxiliary contacts			
Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module	t		Yes
		V AC	6000
Rated impulse withstand voltage	U_{imp}	V AC	
Rated impulse withstand voltage Overvoltage category/pollution degree	U _{imp}	VAU	111/3
	U _{imp}	V AC	III/3 690
Overvoltage category/pollution degree	Ui	V AC	690
Overvoltage category/pollution degree Rated insulation voltage			

between coil and auxiliary contacts		V AC	300
between the auxiliary contacts		V AC	300
Rated operational current			
AC-15			
220 V 240 V	l _e	Α	6
380 V 415 V	l _e	Α	3
500 V	I _e	Α	1.5
DC L/R ≦ 15 ms			
Contacts in series:		Α	
1	24 V	Α	2.5
2	60 V	A	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		X 10	
$L/R = 50$ ms: 2 contacts in series at $I_e = 0.5$ A	Operations	x 10 ⁶	0.15
	Operations	X 10	
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			T NZ (VIU-4
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 480 V		HP	5
575 V 600 V		HP	5
Single-phase			
115 V 120 V		НР	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		A	10
DC		V	250
DC Short Circuit Current Rating		A SCCR	0.5
SHOLL GILCUIT GULLETIL NAUHÜ		SUUR	

SCCR	kA	5
max. Fuse	А	45

Design verification as per IEC/EN 61439

boolgh vormoution do por 120, 211 or 100			
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.	uiss	°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.

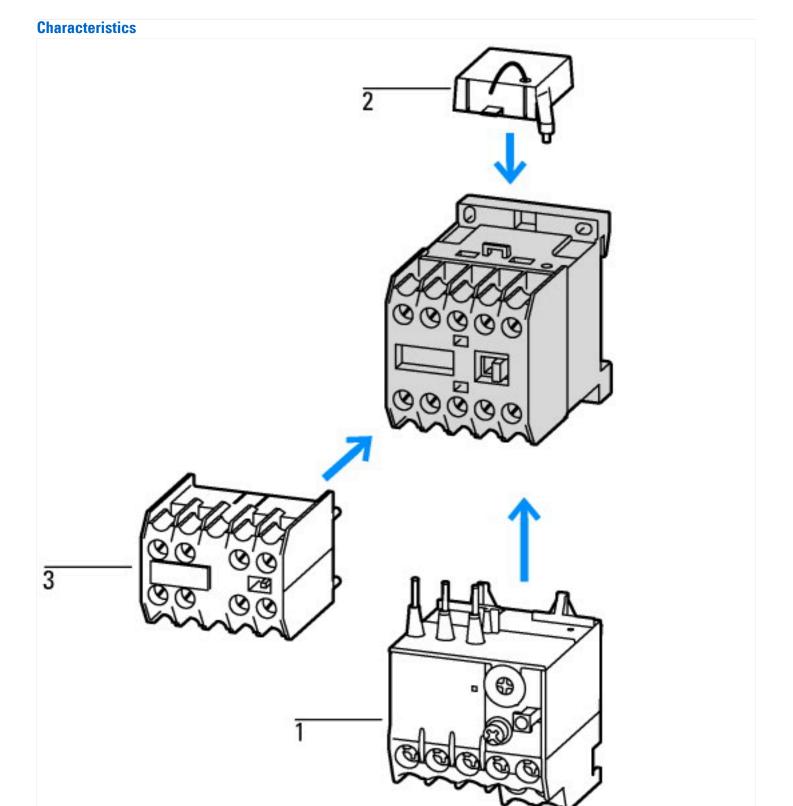
Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)				
Electric engineering, automation, process control engineering / Low-voltage switch 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	/	380 - 380	
Rated control supply voltage Us at AC 60HZ	V	/	440 - 440	
Rated control supply voltage Us at DC	V	/	0 - 0	
Voltage type for actuating			AC	
Rated operation current le at AC-1, 400 V	Д	4	22	
Rated operation current le at AC-3, 400 V	Д	4	9	
Rated operation power at AC-3, 400 V	k	(W	4	
Rated operation current le at AC-4, 400 V	Д	A	6.6	
Rated operation power at AC-4, 400 V	k	(W	3	
Rated operation power NEMA	k	W	3.7	
Modular version			No	
Number of auxiliary contacts as normally open contact			0	

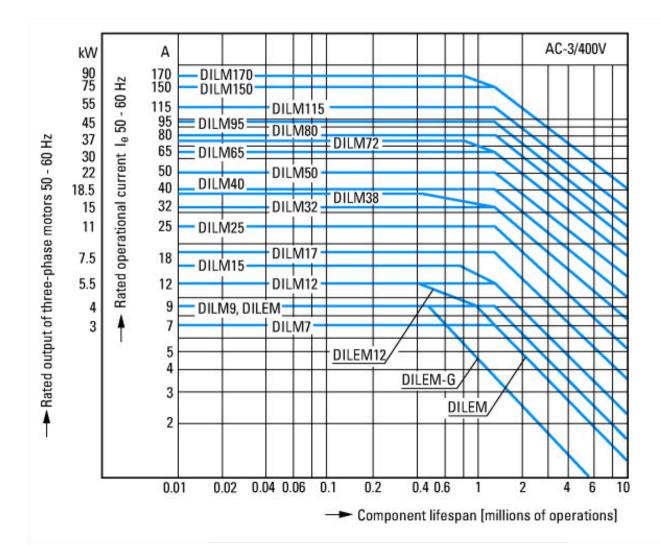
Number of auxiliary contacts as normally closed contact	1
Type of electrical connection of main circuit	Screw connection
Number of normally closed contacts as main contact	0
Number of main contacts as normally open contact	3

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



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

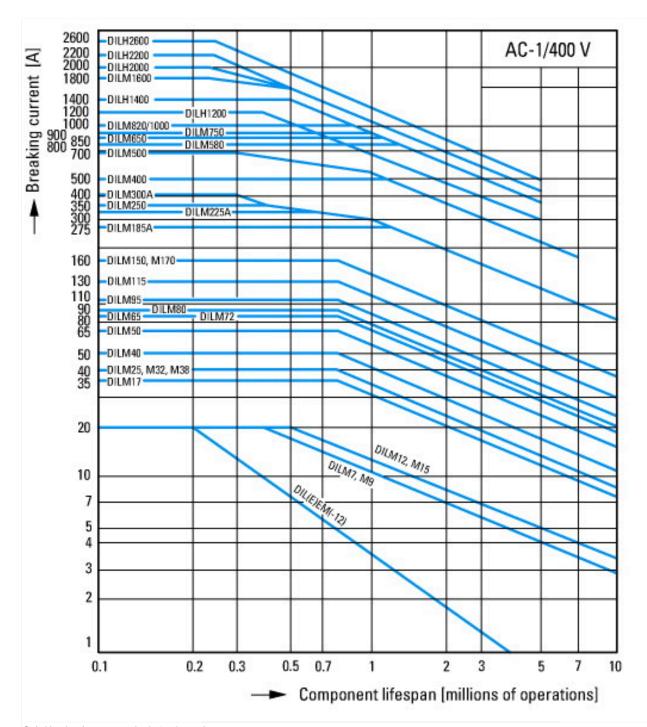
Break: up to 6 x rated motor current

Utilization category 100 % AC-4

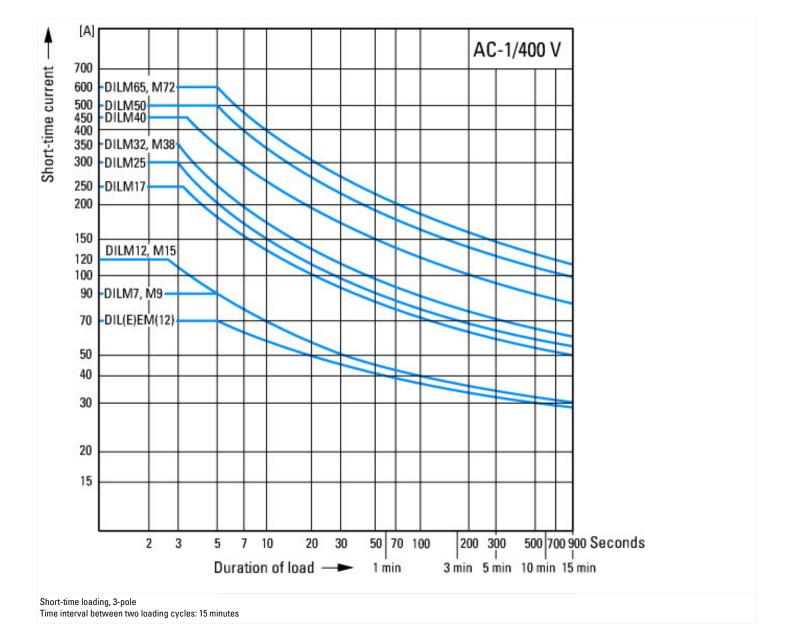
Typical applications Printing presses

Wire-drawing machines

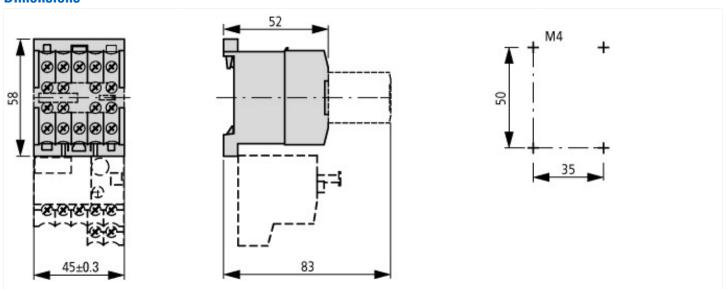
Special drives for manufacturing and processing machines

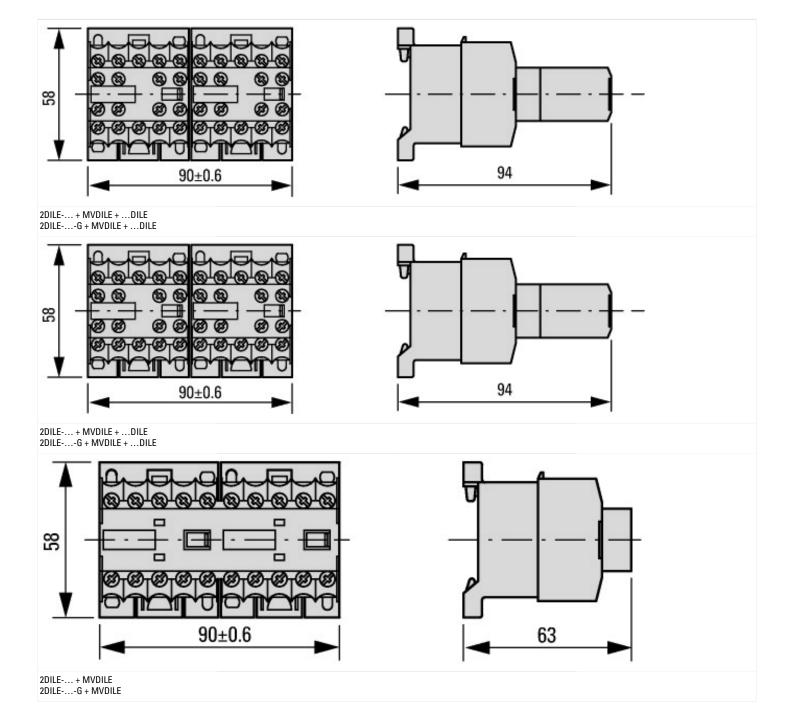


Switching duty for non-motor loads, 3-pole, 4-pole Operating characteristics
Non-inductive or slightly inductive loads
Electrical characteristics
Make: 1 x rated current
Break: 1 x rated current
Utilization category
100 % AC-1
Typical applications



Dimensions





Additional product information (links)

IL03407009Z (AWA2100-0882) Mini contactor relay

IL03407009Z (AWA2100-0882) Mini contactor relay

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