# **DATASHEET - DILM15-10(24VDC)**



Contactor, 3 pole, 380 V 400 V 7.5 kW, 1 N/O, 24 V DC, DC operation, Screw terminals



Powering Business Worldwide



Part no. DILM15-10(24VDC) Catalog No. 290073 Alternate Catalog XTCE015B10TD

No.

4110368 **EL-Nummer** 

(Norway)			
Delivery program			
Product range			Contactors
Application			Contactors for Motors
Subrange			Contactors up to 170 A, 3 pole
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
Notes			Not suitable for motors with efficiency class IE3.
Connection technique			Screw terminals
Number of poles			3 pole
Rated operational current			
AC-3			
Notes			At maximum permissible ambient temperature (open.)
380 V 400 V	I <sub>e</sub>	Α	15.5
AC-1			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	Α	22
enclosed	I <sub>th</sub>	Α	18
Conventional free air thermal current, 1 pole			
open	I <sub>th</sub>	Α	50
enclosed	I <sub>th</sub>	Α	45
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	Р	kW	4
380 V 400 V	Р	kW	7.5
660 V 690 V	Р	kW	7
AC-4			
220 V 230 V	Р	kW	2
380 V 400 V	Р	kW	3
660 V 690 V	Р	kW	4.4
Contacts			
N/O = Normally open			1 N/O
Contact sequence			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Instructions			Contacts to EN 50 012. Integrated varistor suppressor circuit.
Can be combined with auxiliary contact			DILM32-XHI DILA-XHI(V)
Actuating voltage			24 V DC
Voltage AC/DC			DC operation
Connection to SmartWire-DT			yes in conjunction with DIL-SWD SmartWire DT contactor module

### Technical data General

Standard	General			
Occoration Sequency, mechanical         Operations for promoting         100           Clineatic printing         Operation Sequency         500           Assistant comprisative         Operation Sequency         Comprise the Counts 2-78           Clinatic printing         0         25-44           Clinations of Counts and Counts 2-78         Operation Sequency           Interfaced         0         25-44           Mundonical shock resistance (IECDN M0000-2-27)         To 100           Mell-insuration shock resistance (IECDN M00000-2-27)         To 100           Mell-in	Standards			IEC/EN 60947, VDE 0660, UL, CSA
Depending   Proposeing mechanical   Depending   Depe	Lifespan, mechanical			
Clamate profiting	DC operated	Operations	x 10 <sup>6</sup>	10
Clanetic procing	Operating frequency, mechanical			
Design   D	DC operated	Operations/h		5000
Parabient temperature	Climatic proofing			
Professed	Ambient temperature			
Note content	Open		°C	-25 - +60
Mechanical abook resistance (ECIEN 80084-2-27)         Interference of a pool of a p	Enclosed		°C	- 25 - 40
Mechanical shock resistance (IEC/EN 60066-2-27)  Half-sinusuidal abock, 10 ms  Main contact  Austilary cantacts  N/O contact  Auxiliary cantacts  N/O contact  Auxiliary cantacts  N/O contact  Auxiliary cantacts  N/O contact  Q	Storage		°C	- 40 - 80
Mechanical shock resistance (IEC/EN 60066-2-27)  Half-sinusuidal abock, 10 ms  Main contact  Austilary cantacts  N/O contact  Auxiliary cantacts  N/O contact  Auxiliary cantacts  N/O contact  Auxiliary cantacts  N/O contact  Q	Mounting position			
Mail contacts				30°
Main contacts   g   10				
N/C contact				
Auxiliary contacts				
N/O contact			g	IU
NIC contact   g   5				
Mechanical shock resistance (IEU/EN 60086-2-27) when tabletop-mounted Half-sinusoidal shock, 10 ms  Mein contacts N/O contact Auxiliary contacts N/O contact S/O c				
Half-sinusoidal shock, 10 ms   Main contacts   9   5.7			g	5
Main contacts         g         5.7           Auxiliary contacts         g         3.4           N/O contact         g         3.4           N/C contact         g         3.4           Degree of Protection         p20         3.4           Protection against direct contact when actuated from front (EN 50274)         m         Pinger and back-of-hand proof           Altitude         m         Max. 2000           Weight         Coperated         kg         0.296           Screw connector terminals         m         1 x (0.75 - 4)         2 x (0.75 - 2.5)           Solid         mm²         1 x (0.75 - 4)         2 x (0.75 - 2.5)           Solid or stranded         AWG         single 18 - 10, double 18 - 14           Stripping length         mm         10         4           Stripping length         mm         10         4           Timinal screw         M3.5         4           Tipping longtu         mm         0.8 x 5.5         5           Pozidriv screwdriver         mm         0.8 x 5.5         5           Terminal capacity control circuit cables         mm²         1 x (0.75 - 2.5)         2           Solid         mm²         1 x (0.75 - 2.5)         2 <td></td> <td></td> <td></td> <td></td>				
N/O contact				
Auxiliary contacts         g         3.4           N/C contact         g         3.4           N/C contact         g         3.4           Degree of Protection         Production against direct contact when actuated from front (EN 50274)         Finger and back-of-hand proof           Altitude         m         Max. 2000           Weight         Coperated         kg         0.296           Screw connector terminals         Terminal capacity main cable         Terminal capacity capacity capacity main cable         Terminal capacity capacity capacity capacity main cable         Terminal capacity capa				
N/C contact   g   3.4     N/C contact   g   3.4     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 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 actuated front fr			g	5.7
N/C contact         g         3.4           Degree of Protection         P20           Protection against direct contact when actuated from front (EN 5024)         Finger and back-of-hand proof           Altitude         m         Max. 2000           Weight         Coperated         kg         0.296           Screw connector terminals         Verminal capacity main cable         Verminal capacity main cable         Verminal capacity main cable           Solid         mm²         1x(0.75 - 4)         2x(0.75 - 2.5)           Solid or stranded         MWG         single 18 - 10, double 18 - 14           Stripping length         mm         10           Terminal screw         M3.5           Tightening torque         Nm         1.2           Pozidriv screwdriver         Size         2           Standard screwdriver         Size         2           Standard screwdriver         mm         0.8x 5.5         1x6           Terminal capacity control circuit cables         mm²         1x (0.75 - 4)         2x (0.75 - 2.5)           Flexible with ferrule         mm²         1x (0.75 - 4)         2x (0.75 - 2.5)         2x (0.75 - 2.5)				
Degree of Protection Protection against direct contact when actuated from front (EN 50274)  Altitude  Max. 2000  Weight  DC operated  Screw connector terminals  Terminal capacity main cable  Solid  Flexible with ferrule  Stripping length  Terminal screw  Pozidriv screwdriver  Pozidriv screwdriver  Standard screwdriver  Solid  Terminal capacity control circuit cables  Flexible with ferrule  Roll x (0.75 - 4.5) 2 x (0.75 - 2.5) 2	·			
Protection against direct contact when actuated from front (EN 50274)  Altitude  Meight  DC operated  Screw connector terminals  Terminal capacity main cable  Solid  Flexible with ferrule  Solid or stranded  Stripping length  Terminal screw  Pozidriv screwdriver  Pozidriv screwdriver  Standard screwdriver  Solid  Terminal capacity control circuit cables  Flexible with ferrule  Solid  Max 2000  Aga 2096  Le Capacity Capacit	·		g	
Altitude         m         Max. 2000           Weight         Coperated         kg         0.296           Screw connector terminals         Common connector terminals         Common connector terminals           Terminal capacity main cable         mm²         1 x (0.75 - 4) z x (0.75 - 2.5)           Solid         mm²         1 x (0.75 - 2.5) z - 2.5)           Solid or stranded         AWG         single 18 - 10, double 18 - 14           Stripping length         mm         10           Terminal screw         MM3.5         1.2           Tolo         Nbm         1.2           Pozidriv screwdriver         Size         2           Standard screwdriver         Size         2           Terminal capacity control circuit cables         mm²         0.8x 5.5 1 x 6           Flexible with ferrule         mm²         1 x (0.75 - 4) z x (0.75 - 2.5) z x (0.75 - 2.5)				
Weight DC operated         kg         0.296           Screw connector terminals         ————————————————————————————————————				
DC operated         kg         0.296           Screw connector terminals         ****           Terminal capacity main cable         ****           Solid         mm²         1 x (0.75 - 4) 2 x (0.75 - 2.5)           Flexible with ferrule         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)           Solid or stranded         AWG         single 18 - 10, double 18 - 14           Stripping length         mm         10           Terminal screw         M3.5         ***           Tightening torque         Nm         1.2           Tool         ***         2           Pozidriv screwdriver         Size         2           Standard screwdriver         mm         0.8 x 5.5 1 x 6           Terminal capacity control circuit cables         mm²         1 x (0.75 - 4) 2 x (0.75 - 2.5) 2 x (0.75 - 2.5)           Flexible with ferrule         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5) 2 x (0.75 - 2.5)			m	Max. 2000
Screw connector terminals         Terminal capacity main cable           Solid         mm² 1x (0.75 - 4) 2x (0.75 - 2.5)           Flexible with ferrule         mm² 1x (0.75 - 2.5) 2x (0.75 - 2.5)           Solid or stranded         AWG single 18 - 10, double 18 - 14           Stripping length         mm 10           Terminal screw         M3.5           Tightening torque         Nm 1.2           Tool         Size 2           Standard screwdriver         Size 2           Standard screwdriver         mm 0.8x 5.5 1x 6           Terminal capacity control circuit cables         mm² 1x (0.75 - 4) 2x (0.75 - 2.5)           Flexible with ferrule         mm² 1x (0.75 - 2.5) 2x (0.75 - 2.5)			l. m	0.306
Terminal capacity main cable			ку	0.230
Solid   mm²   1 x (0.75 - 4)   2 x (0.75 - 2.5)     Flexible with ferrule   mm²   1 x (0.75 - 2.5)     Solid or stranded   AWG   single 18 - 10, double 18 - 14     Stripping length   mm   10     Terminal screw   M3.5     Tightening torque   Nm   1.2     Tool   Pozidriv screwdriver   Size   2     Standard screwdriver   mm   0.8 x 5.5   1 x 6     Terminal capacity control circuit cables   Solid   mm²   1 x (0.75 - 4)   2 x (0.75 - 2.5)     Flexible with ferrule   mm²   1 x (0.75 - 4)   2 x (0.75 - 2.5)   2 x (0.75 - 2.5)				
	. ,		2	1 v (0.75 - 4)
Solid or stranded				2 x (0.75 - 2.5)
Stripping length         mm         10           Terminal screw         M3.5           Tightening torque         Nm         1.2           Tool         Size         2           Standard screwdriver         Size         2           Standard screwdriver         mm         0.8 x 5.5 1 x 6           Terminal capacity control circuit cables         mm²         1 x (0.75 - 4) 2 x (0.75 - 2.5)           Flexible with ferrule         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)           2 x (0.75 - 2.5)         2 x (0.75 - 2.5)	riexible with letrule		mm²	
Terminal screw         M3.5           Tightening torque         Nm         1.2           Tool         Size         2           Pozidriv screwdriver         Size         2           Standard screwdriver         mm         0.8 x 5.5 1 x 6           Terminal capacity control circuit cables         mm²         1 x (0.75 - 4) 2 x (0.75 - 2.5)           Solid         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)           Flexible with ferrule         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)	Solid or stranded		AWG	single 18 - 10, double 18 - 14
Tightening torque  Tool  Pozidriv screwdriver  Size 2  Standard screwdriver  mm 0.8 x 5.5 1 x 6  Terminal capacity control circuit cables  Solid  mm² 1 x (0.75 - 4) 2 x (0.75 - 2.5)  Flexible with ferrule  mm² 1 x (0.75 - 2.5) 2 x (0.75 - 2.5)	Stripping length		mm	
Tool         Size         2           Standard screwdriver         mm         0.8 x 5.5 1 x 6           Terminal capacity control circuit cables         mm²         1 x (0.75 - 4) 2 x (0.75 - 2.5)           Flexible with ferrule         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)				M3.5
Pozidriv screwdriver  Size 2  Standard screwdriver  mm 0.8 x 5.5 1 x 6  Terminal capacity control circuit cables  Solid  mm² 1 x (0.75 - 4) 2 x (0.75 - 2.5)  Flexible with ferrule  mm² 1 x (0.75 - 2.5) 2 x (0.75 - 2.5)	Tightening torque		Nm	1.2
Standard screwdriver       mm       0.8 x 5.5 1 x 6         Terminal capacity control circuit cables       1 x (0.75 - 4) 2 x (0.75 - 2.5)         Solid       mm²       1 x (0.75 - 4) 2 x (0.75 - 2.5)         Flexible with ferrule       mm²       1 x (0.75 - 2.5) 2 x (0.75 - 2.5)	Tool			
Terminal capacity control circuit cables       1 x 6         Solid       mm²       1 x (0.75 - 4) 2 x (0.75 - 2.5)         Flexible with ferrule       mm²       1 x (0.75 - 2.5) 2 x (0.75 - 2.5)			Size	
Solid $mm^{2} = \frac{1 \times (0.75 - 4)}{2 \times (0.75 - 2.5)}$ Flexible with ferrule $mm^{2} = \frac{1 \times (0.75 - 2.5)}{2 \times (0.75 - 2.5)}$	Standard screwdriver		mm	
2 x (0.75 - 2.5)  Flexible with ferrule  mm <sup>2</sup> 1 x (0.75 - 2.5) 2 x (0.75 - 2.5)	Terminal capacity control circuit cables			
2 x (0.75 - 2.5)	Solid		mm <sup>2</sup>	
Solid or stranded AWG 18 - 14	Flexible with ferrule		mm <sup>2</sup>	
	Solid or stranded		AWG	18 - 14

Stripping length		mm	10
Terminal screw			M3.5
Tightening torque		Nm	1.2
Tool			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 x 5.5 1 x 6
Main conducting paths Rated impulse withstand voltage	U <sub>imp</sub>	V AC	8000
	O <sub>IMp</sub>	VAC	III/3
Overvoltage category/pollution degree  Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U <sub>e</sub>	V AC	690
Safe isolation to EN 61140	O <sub>e</sub>	V AO	
between coil and contacts		V AC	400
between the contacts		V AC	400
Making capacity (p.f. to IEC/EN 60947)			
	Up to 690 V	Α	155
Breaking capacity			
220 V 230 V		Α	124
380 V 400 V		Α	124
500 V		Α	100
660 V 690 V		Α	70
Short-circuit rating			
Short-circuit protection maximum fuse			
Type "2" coordination	*C/*L E00.\/	^	20
400 V 690 V		A	20
Type "1" coordination	gG/gL 690 V	A	20
400 V	gG/gL 500 V	A	63
690 V	gG/gL 690 V	A	50
AC	3-73-111		
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	21
at 55 °C	$I_{th} = I_e$	Α	21
at 60 °C	$I_{th} = I_e$	Α	20
enclosed	I <sub>th</sub>	Α	18
Conventional free air thermal current, 1 pole			
open	I <sub>th</sub>	Α	50
enclosed	I <sub>th</sub>	Α	45
AC-3  Rated operational current			
Open, 3-pole: 50 – 60 Hz			
Notes			At maximum permissible ambient temperature (open.)
220 V 230 V	I <sub>e</sub>	Α	15.5
240 V	I <sub>e</sub>	Α	15.5
380 V 400 V	I <sub>e</sub>	Α	15.5
415 V	I <sub>e</sub>	A	15.5
440V	l <sub>e</sub>	Α	15.5
500 V	I <sub>e</sub>	Α	12.5
660 V 690 V	I <sub>e</sub>	A	9
380 V 400 V	I <sub>e</sub>	A	15.5

Motor rating	Р	kWh	
220 V 230 V	P	kW	4
240V	P	kW	4.6
380 V 400 V	P	kW	7.5
415 V	P	kW	8
440 V	P	kW	8.4
500 V	P	kW	7.5
660 V 690 V	P	kW	7
AC-4			
Open, 3-pole: 50 – 60 Hz	,	٨	7
220 V 230 V	I <sub>e</sub>	Α	7
240 V	I <sub>e</sub>	Α	7
380 V 400 V	l <sub>e</sub>	Α	7
415 V	l <sub>e</sub>	Α	7
440 V	I <sub>e</sub>	Α	7
500 V	I <sub>e</sub>	Α	6
660 V 690 V	I <sub>e</sub>	Α	5
Motor rating	P	kWh	
220 V 230 V	P	kW	2
240 V	P	kW	2.2
380 V 400 V	P	kW	3
415 V	P	kW	3.4
440 V	P	kW	3.6
500 V	P	kW	3.5
660 V 690 V	P	kW	4.4
DC	r	KVV	4.4
Rated operational current, open			
DC-1			
60 V	I <sub>e</sub>	Α	20
110 V		A	20
	l <sub>e</sub>		
220 V	l <sub>e</sub>	Α	15
Current heat loss 3 pole, at I <sub>th</sub> (60°)		W	4
Current heat loss at I <sub>e</sub> to AC-3/400 V		W	2.4
Impedance per pole		mΩ	4.6
Magnet systems Voltage tolerance			
	Diek	w.11	0.0 11
DC operated	Pick-up	x U <sub>c</sub>	0.8 - 1.1
Notes			0.85 - 1.1 only with auxiliary contact module with 3 or more N/C contacts 0.7 – 1.3 without auxiliary contact module and at ambient air temperature + +40 °C
DC operated	Drop-out	x U <sub>c</sub>	0.15 - 0.6
Notes			at least smoothed two-phase bridge rectifier or three-phase rectifier
Power consumption of the coil in a cold state and 1.0 x $\ensuremath{\text{U}_{\text{S}}}$			
DC operated	Pick-up	W	4.5
DC operated	Sealing	W	4.5
Duty factor		% DF	100
Changeover time at 100 % U <sub>S</sub> (recommended value)			
Main contacts			
DC operated		ms	
Closing delay		ms	31
Opening delay		ms	12
Arcing time		ms	10
Electromagnetic compatibility (EMC)		illo	·-
Emitted interference			according to EN 60947-1
Interference immunity			according to EN 60947-1
interierence inimunity			according to EN 00947-1

#### **Rating data for approved types**

Rating data for approved types Switching capacity		
Maximum motor rating		
Three-phase		
200 V	НР	5
208 V		
230 V 240 V	HP	5
460 V 480 V	НР	10
575 V 600 V	НР	10
Single-phase		
115 V	НР	1
120 V 230 V	НР	3
240 V		
General use	Α	20
Auxiliary contacts		
Pilot Duty		
AC operated		A600
DC operated		P300
General Use	.,	
AC	V	600
AC	A	10
DC	V	250
DC	A	1
Short Circuit Current Rating	SCCR	
Basic Rating		
SCCR	kA	5
max. Fuse	A	45
max. CB	Α	60
480 V High Fault		201122
SCCR (fuse)	kA	30/100
max. Fuse	Α	25 Class RK5/60 Class J
600 V High Fault		20/402
SCCR (fuse)	kA	30/100
max. Fuse Special Purpose Ratings	Α	25 Class RK5/60 Class J
Electrical Discharge Lamps (Ballast)		
480V 60Hz 3phase, 277V 60Hz 1phase	A	20
600V 60Hz 3phase, 217V 60Hz 1phase	A	20
Incandescent Lamps (Tungsten)	^	
480V 60Hz 3phase, 277V 60Hz 1phase	A	14
600V 60Hz 3phase, 217V 60Hz 1phase	A	14
Resistance Air Heating		
480V 60Hz 3phase, 277V 60Hz 1phase	Α	20
600V 60Hz 3phase, 347V 60Hz 1phase	A	20
Refrigeration Control (CSA only)		
LRA 480V 60Hz 3phase	A	60
FLA 480V 60Hz 3phase	A	10
LRA 600V 60Hz 3phase	A	60
FLA 600V 60Hz 3phase	A	10
Definite Purpose Ratings (100,000 cycles acc. to UL 1995)		
LRA 480V 60Hz 3phase	A	90
FLA 480V 60Hz 3phase	A	15
Elevator Control		
200V 60Hz 3phase	НР	2

200V 60Hz 3phase	А	7.8
240V 60Hz 3phase	НР	3
240V 60Hz 3phase	Α	9.6
480V 60Hz 3phase	НР	7.5
480V 60Hz 3phase	А	11
600V 60Hz 3phase	HP	7.5
600V 60Hz 3phase	A	9

# Design verification as per IEC/EN 61439

2001gii 1011110411011 40 poi 120, 211 01 100			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	15.5
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0.8
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	4.5
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
$10.2.3.3\ Verification\ of\ resistance\ of\ insulating\ materials\ to\ abnormal\ heat\ and\ fire\ due\ to\ internal\ electric\ effects$			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

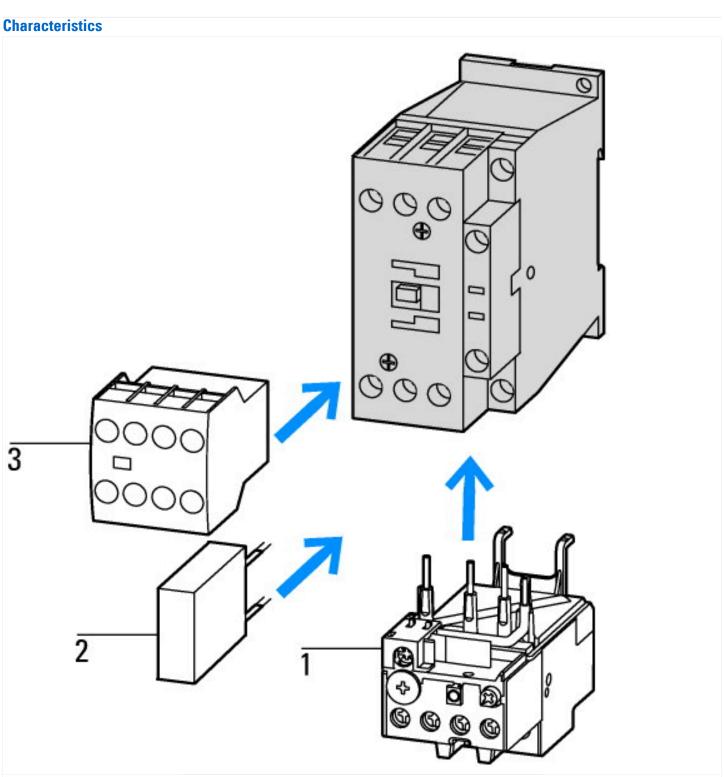
# **Technical data ETIM 7.0**

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	0 - 0	
Rated control supply voltage Us at AC 60HZ		V	0 - 0	
Rated control supply voltage Us at DC		V	24 - 24	
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	15.5	
Rated operation power at AC-3, 400 V		kW	7.5	

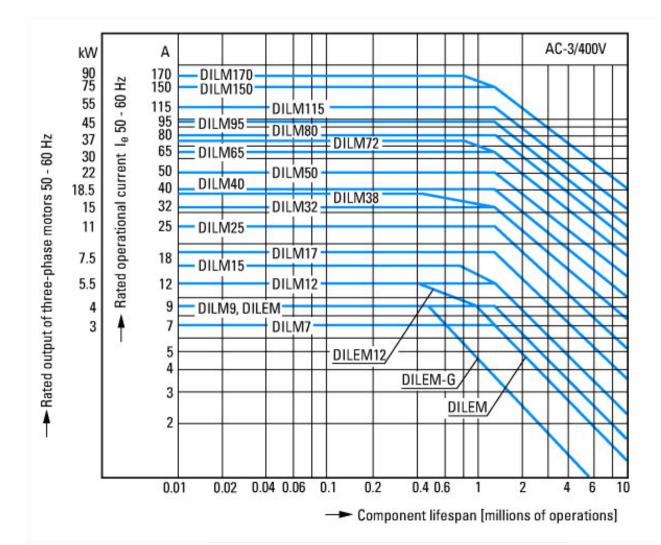
Rated operation current le at AC-4, 400 V	А	7
Rated operation power at AC-4, 400 V	kW	3
Rated operation power NEMA	kW	7.4
Modular version		No
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as normally closed contact		0
Type of electrical connection of main circuit		Screw connection
Number of normally closed contacts as main contact		0
Number of main contacts as normally open contact		3

# Approvals

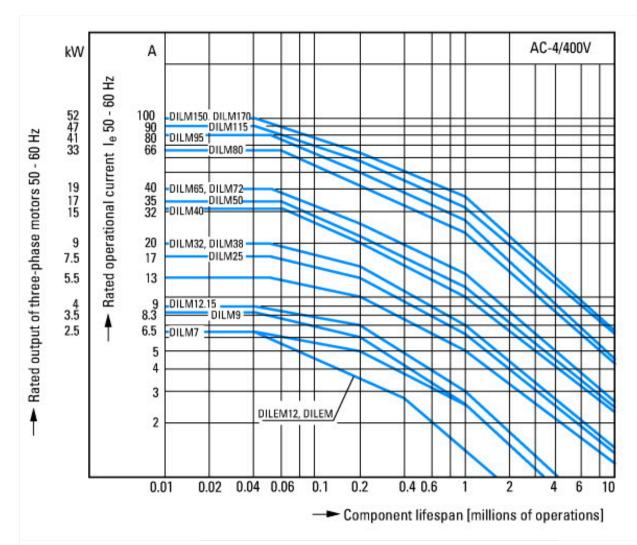
Product Standards	IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking
UL File No.	E29096
UL Category Control No.	NLDX
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
North America Certification	UL listed, CSA certified
Specially designed for North America	No



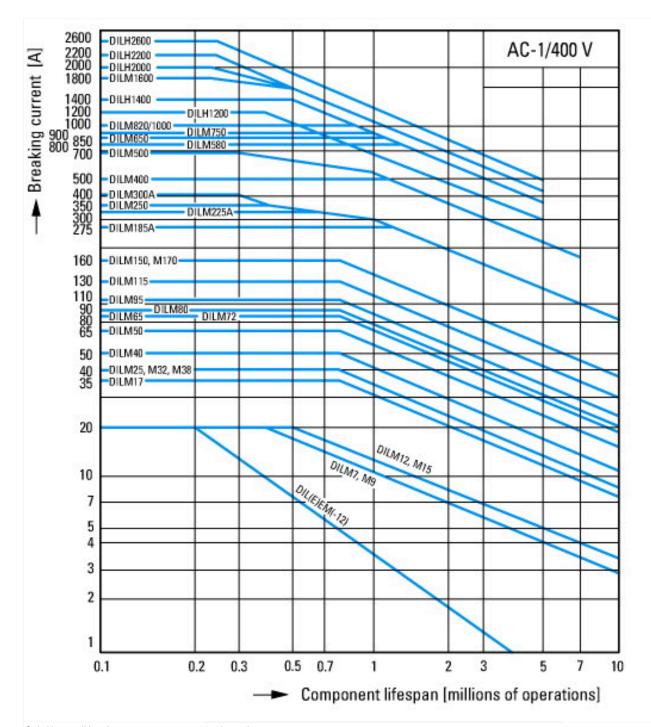
- 1: Overload relay 2: Suppressor 3: Auxiliary contact modules



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



Extreme switching duty
Normal AC induction motor
Operating characteristics
Inching, plugging, reversing
Electrical characteristics:
Switch on: up to 6 x Rated motor current
Switch off:up to 6 x Rated motor current
Utilization



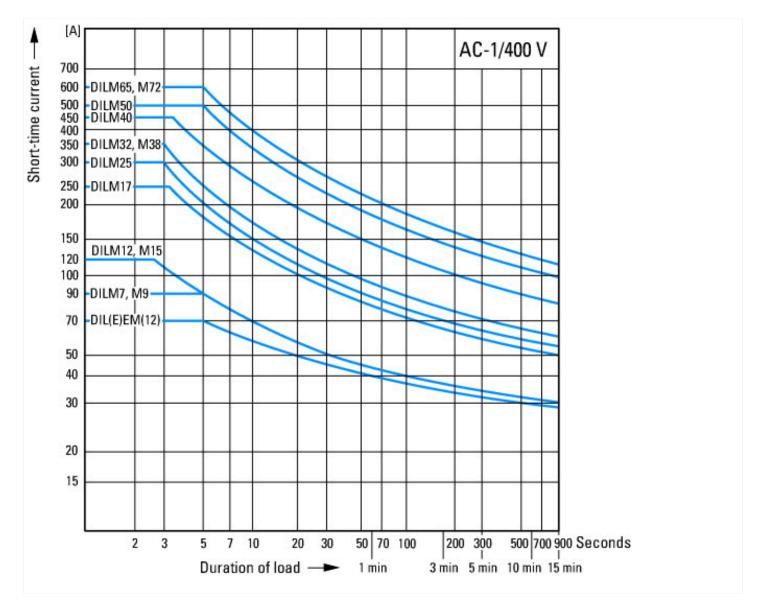
Switching conditions for non-motor consumers, 3 pole, 4 pole Operating characteristics Non inductive and slightly inductive loads Electrical characteristics Switch on: 1 x rated operational current

Switch off: 1 x rated operational current

Utilization category 100 % AC-1

Typical examples of application

Electric heat



### **Dimensions**

