# **DATASHEET - DILMP45-10(230V50HZ,240V60HZ)**



Contactor, 4 pole, AC operation, AC-1: 45 A, 1 N/O, 230 V 50 Hz, 240 V 60 Hz, Screw terminals



Powering Business Worldwide

Part no. DILMP45-10(230V50HZ,240V60HZ)

Catalog No. 109826 Alternate Catalog XTCF045C10F

No.

**EL-Nummer** 4130405

(Norway)

### **Delivery program**

Delivery program			
Product range			Contactors
Application			Contactors for 4 pole electric consumers
Subrange			Contactors up to 200 A, 4 pole
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
Connection technique			Screw terminals
Number of poles			4 pole
Rated operational current			
AC-1			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
at 40 °C	$I_{th} = I_e$	Α	45
at 50 °C	$I_{th} = I_e$	Α	41
at 55 °C	$I_{th} = I_e$	Α	40
at 60 °C	$I_{th} = I_e$	Α	39
Contacts			
N/O = Normally open			1 N/O
Contact sequence			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
For use with			DILM32-XHI(C) DILA-XHI(V)(C)
Actuating voltage			230 V 50 Hz, 240 V 60 Hz
Voltage AC/DC			AC operation
Connection to SmartWire-DT			no
Instructions			Contacts to EN 50 012.

### **Technical data**

### General

AC operated Operations x 10 <sup>6</sup> 10  DC operated Operations x 10 <sup>6</sup> 10  DC operated Operations x 10 <sup>6</sup> 10  DC operated Operations x 10 <sup>6</sup> 5000  DC operated Operated Operations/h DC operations	deliciui			
AC operated Operations $x 10^6$ 10   DC operated Operations $x 10^6$ 10   Operations operating frequency, mechanical   AC operated Operations/h	Standards			IEC/EN 60947, VDE 0660, UL, CSA
DC operated Operations x 10 <sup>6</sup> 10 Operating frequency, mechanical Operations / AC operated Operations/h DC operated Operations/h DC operated Operations/h Climatic proofing Operations/h Open Climatic proofing Cl	Lifespan, mechanical			
Deperating frequency, mechanical  AC operated  DC operated  Operations/h  DC operated  Operations/h  Dimatic proofing  Ambient temperature  Open  Enclosed  Storage  Operations/h  Opera	AC operated	Operations	x 10 <sup>6</sup>	10
AC operated Operations/h 5000  DC operated Operations/h 5000  Climatic proofing Damp heat, constant, to IEC 60068-2-3 Damp heat, cyclic, to IEC 60068-2-3 Damp heat, cyclic, to IEC 60068-2-30  Ambient temperature	DC operated	Operations	x 10 <sup>6</sup>	10
DC operated Operations/h Climatic proofing Damp heat, constant, to IEC 60068-2-3 Damp heat, cyclic, to IEC 60068-2-30 Damp	Operating frequency, mechanical			
Damp heat, constant, to IEC 60068-2-3 Damp heat, cyclic, to IEC 60068-2-3 Damp heat, cyclic, to IEC 60068-2-30  Ambient temperature  Open  °C -25 - +60  Enclosed °C - 25 - 40  Storage °C - 40 - 80	AC operated	Operations/h		5000
Ambient temperature         C         -25 - +60           Enclosed         °C         - 25 - 40           Storage         °C         - 40 - 80	DC operated	Operations/h		5000
Open         °C         -25 - +60           Enclosed         °C         - 25 - 40           Storage         °C         - 40 - 80	Climatic proofing			
Enclosed         °C         - 25 - 40           Storage         °C         - 40 - 80	Ambient temperature			
Storage °C - 40 - 80	Open		°C	-25 - +60
	Enclosed		°C	- 25 - 40
Mounting position	Storage		°C	- 40 - 80
	Mounting position			

Mechanics shock resistance (ECCH M086-227)  Itils ferminated mock, florar  Microscotta  NO context  NO context  NO context  NO context  So 7  Microscotta  NO context  So 5  Percention against direct context when animated from from (EN M0274)  Report of Protection against direct context when animated from from (EN M0274)  Report of Protection against direct context when animated from from (EN M0274)  Report of Protection against direct context when animated from from (EN M0274)  Report of Protection against direct context when animated from from (EN M0274)  Report of Protection against direct context when animated from from (EN M0274)  Report of Protection against direct context when animated from from (EN M0274)  Report of Protection against direct context when animated from from (EN M0274)  Report of Protection animated  Solid  ### 1			
Half sinusoridal shock, 10 ms   Main contacts   NO contact   Austinary contacts   NO contact   NO contact   Section   Sectio	Mounting position		
Half sinusoridal shock, 10 ms   Main contacts   NO contact   Austinary contacts   NO contact   NO contact   Section   Sectio	Mechanical shock resistance (IEC/EN 60068-2-27)		
Main contacts			
No Contact   Automatic   No Contact   No			
Auxiliary contacts  Not contact  Not contact  Percent of protection  Altrust  Protection against direct contact when actuated from front (EN 90274)  Sorging langth  Termind capacity main cable  Salid  Salid contact  Salid contact  Salid contact when actuated from front (EN 90274)  Sorging langth  Flexible with ferrule  Sold or stranded  Sold or strande		a	10
Nit contact		J	
Degree of Protection   Degree of Protection   Degree of Protection   Degree of Protection   Protection against direct contact when actuated from front (EN 50214)   Finger and back-of-hand proof		a	7
Depres of Protection   Protection against direct contact when actuated from front ISM 1912/4)   Protection against direct contact when actuated from front ISM 1912/4)   Protection against direct contact when actuated from front ISM 1912/4)   Protection against direct contact when actuated from front ISM 1912/4)   Protection against direct contact when actuated from front ISM 1912/4   Protection against direct contact when actuated from front ISM 1912/4   Protection against direct contact when actuated from front ISM 1912/4   Protection against direct contact when actuated from front ISM 1912/4   Protection against direct contact when actuated from front ISM 1912/4   Protection against direct contact when actuated from front ISM 1912/4   Protection against direct when actuated from front ISM 1912/4   Protection against direct when actuated from front ISM 1912/4   Protection against direct when actuated from front ISM 1912/4   Protection against direct when actuated from front ISM 1912/4   Protection against direct when actuated from front ISM 1912/4   Protection against direct when actuated from front ISM 1912/4   Protection against direct when actuated from front ISM 1912/4   Protection against direct when actuated from front ISM 1912/4   Protection against direct when actuated from front ISM 1912/4   Protection actuat			
Altitude         MRX. 2000           Protection against direct contact when actuated from from (IN 50274)         mon         10           Stripping langth         mm         2         1 x 10.75 - 16           Terminal capacity main cable         1 x 10.75 - 16         2         x 10.75 - 16           Stripping langth         mm²         2 x 10.75 - 10         2           Stripping langth         mm²         1 x 10.75 - 10         2           Stripping langth         mm²         2 x 10.75 - 10         2           Stripping langth         mm²         3 x 10.75 - 10         2           Stripping langth         mm²         3 x 10.75 - 25         2           Health eventh ferrules         mm²         2 x 10.75 - 25         2           Health with ferrules         mm²         2 x 10.75 - 25         2           Health with ferrule         mm²         2 x 10.75 - 25         2           Solid or stranded         mm²         2 x 10.75 - 25         2           Flexible with ferrule         mm²         2 x 10.75 - 25         2           Solid or stranded         mm²         2 x 10.75 - 25         2           Solid or stranded         mm²         2 x 10.75 - 25         2           Solid or stran		9	
Protection against direct contact when actuated from from (EN 50774)   mm   10		m	
Stringhing length         mm         10           Ectminate Expecting man cabile         "mm"         1 k10,75 - 10)           Flookble with ferrule         "mm"         1 k10,75 - 10)           Stranded         "mm"         1 x 16           Solid or stranded         Me         Me           Treminal screw         Me         Me           Tightening bergeh         Nm         3           Stripping length         1 x 10,75 - 25)         2 x 10,75 - 25)           Heisble         "mm"         1 x 10,75 - 25)         2 x 10,75 - 25)           Heisble with ferrule         "mm"         1 x 10,75 - 25)         2 x 10,75 - 25)           Solid or stranded         "mm"         1 x 10,75 - 25)         2 x 10,75 - 25)           Solid or stranded         "mm"         1 x 10,75 - 25)         2 x 10,75 - 25)           Solid or stranded         "mm"         1 x 10,75 - 25)         2 x 10,75 - 25)           Solid or stranded         "mm"         1 x 10,75 - 25)         2 x 10,75 - 25)           Solid or stranded         "mm"         1 x 10,75 - 25)         2 x 10,75 - 25)           Solid or stranded         "mm"         1 x 10,75 - 25)         2 x 10,75 - 25)           Solid or stranded         "mm"         1 x 10,75 - 25)			
Terminal capacity main cable         xmm²         1 x (0.75 - 16) 2 x (0.75 - 10) 2 x		mm	
Solid   mm²			
Flexible with ferrule		2	1 x (0.75 - 16)
Stranded		mm	2 x (0.75 - 10)
Solid or stranded         AWG         18 - 6           Temmal screw         M5         3           Tightening torque         mm         10           Stripping length         mm         10           Push-in terminals         mm         1 x (0.75 - 25)           I flexible         mm²         1 x (0.75 - 25)           I flexible         mm²         1 x (0.75 - 25)           I flexible with ferrules         mm²         1 x (0.75 - 15)           Solid or stranded         AWG         8 - 14           Terminal capacity control circuit cables         mm²         1 x (0.75 - 25)           Solid or stranded         mm²         1 x (0.75 - 25)           Solid or stranded         MWG         8 - 14           Stripping length         mm         10           Terminal screw         M3.5         1           Terminal screw         M3.5         1           Push-in terminals         mm²         1 x (0.75 - 25)           Solid or stranded         mm²         1 x (0.75 - 25)           Flexible         mm²         2 x (0.75 - 25)           Flexible         mm²         2 x (0.75 - 25)           Flexible         mm²         2 x (0.75 - 25) <t< td=""><td>Flexible with ferrule</td><td>mm<sup>2</sup></td><td></td></t<>	Flexible with ferrule	mm <sup>2</sup>	
Terminal screw	Stranded	$mm^2$	1 x 16
Tightening torque	Solid or stranded	AWG	18 - 6
Stripping length	Terminal screw		M5
Push-in terminals	Tightening torque	Nm	3
Solid   mm²   1x (0.75 - 2.5)   2x (0.75 - 1.5)   2x (0.75 - 2.5)   2x (0.75 - 2.5	Stripping length	mm	10
Flexible with ferrules	Push-in terminals		
Rexible with ferrules	Solid	mm <sup>2</sup>	
Solid or stranded	flexible	mm <sup>2</sup>	
Terminal capacity control circuit cables         mm²         1 x (0.75 - 4) 2 x (0.75 - 25)           Solid         mm²         1 x (0.75 - 25)           Flexible with ferrule         mm²         1 x (0.75 - 25)           Solid or stranded         AWG         18 - 14           Stripping length         mm         10           Terminal screw         M3.5         Mm²           Tightening torque         Nm         1.2           Push-in terminals         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)           Solid         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)           Flexible         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)           Flexible with ferrule         mm²         1 x (0.75 - 1.5) 2 x (0.75 - 1.5)           Solid or stranded         AWG         18 - 14           Tool         Main cable         Pozidriv screwdriver         Size         2           Standard screwdriver         mm         0.8 x 5.5 1 x 6           Control circuit cables         0.00000000000000000000000000000000000	flexible with ferrules	mm <sup>2</sup>	1 x (0.75 - 1.5) 2 x (0.75 - 1.5)
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   18 - 14     Stripping length   mm   10     Terminal screw   M3.5     Tightening torque   Nm   1.2     Push-in terminals     Solid   mm²   1 x (0.75 - 2.5)     Flexible   mm²   1 x (0.75 - 2.5)     Flexible with ferrule   mm²   1 x (0.75 - 2.5)     Flexible with ferrule   mm²   1 x (0.75 - 2.5)     Flexible with ferrule   mm²   1 x (0.75 - 1.5)     2 x (0.75 - 2.5)     Flexible with ferrule   mm²   1 x (0.75 - 1.5)     2 x (0.75 - 1.5)   x (0.75 - 1.5)     Solid or stranded   AWG   18 - 14     Tool   Main cable   Pozidriv screwdriver   Size   2     Standard screwdriver   Size   2     Control circuit cables   mm²   0.8 x 5.5     1 x 6		AWG	18 - 14
Flexible with ferrule	Terminal capacity control circuit cables		
Solid or stranded   AWG   18 - 14		mm <sup>2</sup>	2 x (0.75 - 2.5)
Stripping length         mm         10           Terminal screw         M3.5           Tightening torque         Nm         1.2           Push-in terminals         mm²         1 x (0.75 - 2.5)           Solid         mm²         1 x (0.75 - 2.5)           Flexible         mm²         1 x (0.75 - 2.5)           Flexible with ferrule         mm²         1 x (0.75 - 1.5)           Solid or stranded         AWG         18 - 14           Tool         Main cable         Size         2           Pozidriv screwdriver         Size         2           Standard screwdriver         mm         0.8 x 5.5         1 x 6           Control circuit cables         mm         0.8 x 5.5         1 x 6	Flexible with ferrule	mm <sup>2</sup>	
Terminal screw	Solid or stranded	AWG	18 - 14
Tightening torque         Nm         1.2           Push-in terminals         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)           Solid         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)           Elexible         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)           Elexible with ferrule         mm²         1 x (0.75 - 1.5) 2 x (0.75 - 1.5)           Solid or stranded         AWG         18 - 14           Tool         Main cable         Size         2           Pozidriv screwdriver         Size         2           Standard screwdriver         mm         0.8 x 5.5 1 x 6           Control circuit cables         Control circuit cables	Stripping length	mm	10
Push-in terminals         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)           Flexible         mm²         1 x (0.75 - 2.5) 2 x (0.75 - 2.5)           Flexible with ferrule         mm²         1 x (0.75 - 1.5) 2 x (0.75 - 1.5)           Solid or stranded         AWG         18 - 14           Tool         Main cable         Size         2           Pozidriv screwdriver         Size         2           Standard screwdriver         mm         0.8 x 5.5 1 x 6           Control circuit cables         Control circuit cables	Terminal screw		M3.5
Solid       mm²       1 x (0.75 - 2.5)         Exible       mm²       1 x (0.75 - 2.5)         Exible with ferrule       mm²       1 x (0.75 - 1.5)         Exible with ferrule       mm²       1 x (0.75 - 1.5)         Solid or stranded       AWG       18 - 14         Tool       Barry       1 x 6         Pozidriv screwdriver       Size       2         Standard screwdriver       mm       0.8 x 5.5       1 x 6         Control circuit cables       1 x 6       1 x 6	Tightening torque	Nm	1.2
Flexible	Push-in terminals		
Solid or stranded   1 x (0.75 - 2.5)	Solid	$mm^2$	
Solid or stranded	Flexible	mm <sup>2</sup>	
Tool  Main cable  Pozidriv screwdriver  Size 2  Standard screwdriver  mm 0.8 x 5.5 1 x 6  Control circuit cables	Flexible with ferrule	mm <sup>2</sup>	
Main cable  Pozidriv screwdriver  Size 2  Standard screwdriver  mm 0.8 x 5.5 1 x 6  Control circuit cables	Solid or stranded	AWG	18 - 14
Pozidriv screwdriver  Size 2  Standard screwdriver  mm 0.8 x 5.5 1 x 6  Control circuit cables	Tool		
Standard screwdriver mm 0.8 x 5.5 1 x 6  Control circuit cables	Main cable		
1 x 6  Control circuit cables	Pozidriv screwdriver	Size	2
		mm	
Posidriy oprovidriyar	Control circuit cables		
FUZIUTIV SCIEWUTIVET SIZE Z	Pozidriv screwdriver	Size	2
Standard screwdriver mm 0.8 x 5.5	Standard screwdriver	mm	0.8 x 5.5

## Main conducting paths

Rated impulse withstand voltage	$U_{\text{imp}}$	V AC	8000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	$U_{i}$	V AC	690
Rated operational voltage	Ue	V AC	690
Safe isolation to EN 61140			
between coil and contacts		V AC	440
between the contacts		V AC	440
Making capacity (cos φ)	Up to 690 V	Α	350 According to IEC/EN 60947
Breaking capacity			
220 V 230 V		Α	250
380 V 400 V		Α	250
500 V		Α	250
660 V 690 V		Α	144
Short-circuit rating			
Short-circuit protection maximum fuse			
Type "2" coordination			
400 V	gG/gL 500 V	Α	35
690 V	gG/gL 690 V	Α	35
Type "1" coordination			
400 V	gG/gL 500 V	Α	100
690 V	gG/gL 690 V	Α	50

#### AC

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	45
at 50 °C	$I_{th} = I_e$	Α	41
at 55 °C	$I_{th} = I_e$	Α	40
at 60 °C	$I_{th} = I_e$	Α	39
enclosed	I <sub>th</sub>	Α	36
Conventional free air thermal current, 1 pole			
open	I <sub>th</sub>	Α	117
enclosed	I <sub>th</sub>	Α	105
Motor rating	P	kWh	
220/230 V	P	kW	16
240 V	P	kW	18
380/400 V	P	kW	28
415 V	P	kW	31
440 V	P	kW	33
500 V	P	kW	37
690 V	P	kW	49
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	Ie	Α	25
240 V	I <sub>e</sub>	Α	25
380 V 400 V	I <sub>e</sub>	Α	25
415 V	I <sub>e</sub>	Α	25
440V	I <sub>e</sub>	Α	25

500 V	l <sub>e</sub>	Α	25
660 V 690 V	l <sub>e</sub>	Α	15
Motor rating	P	kWh	
220 V 230 V	Р	kW	7.5
240V	P	kW	8.5
380 V 400 V	Р	kW	11
415 V	Р	kW	14.5
440 V	Р	kW	15.5
500 V	P	kW	17.5
660 V 690 V	P	kW	14
DC			
Rated operational current, open			
DC-1			
60 V	l <sub>e</sub>	Α	45
110 V	I <sub>e</sub>	Α	45
220 V	I <sub>e</sub>	Α	45
Current heat loss			
3 pole, at l <sub>th</sub> (60°)		W	13.2
Impedance per pole		mΩ	2.7
Magnet systems			
Voltage tolerance	Dialous		00.11
AC operated 50 Hz	Pick-up	x U <sub>c</sub>	0.8 - 1.1
AC operated 50/60 Hz	_	x U <sub>c</sub>	0.85 - 1.1
Drop-out voltage AC operated	Drop-out	x U <sub>c</sub>	0.4 - 0.6
Power consumption of the coil in a cold state and 1.0 x $\mbox{U}_{\mbox{\scriptsize S}}$			
AC operated 50/60 Hz	Pick-up	VA	50
AC operated 50/60 Hz	Pick-up	W	40
AC operated 50/60 Hz	Sealing	VA	8
AC operated 50/60 Hz	Sealing	W	2.1
Duty factor		% DF	100
Changeover time at 100 % U <sub>S</sub> (recommended value)			
Main contacts			
AC operated			16 22
Closing delay		ms	16 - 22
Opening delay  Permissible residual current with actuation of A1 - A2 by the electronics (with		ms mA	8 - 14 ≦ 1
O signal).		mA	= 1
Rating data for approved types			
Switching capacity			
Maximum motor rating			
Three-phase			
200 V 208 V		HP	7.5
230 V 240 V		HP	10
460 V 480 V		HP	15
575 V 600 V		НР	20
Single-phase			
115 V 120 V		НР	2
230 V 240 V		НР	5
General use		Α	40
Auxiliary contacts			
Pilot Duty			
AC operated			A600

DC operated		P300
General Use		1 300
AC	V	600
AC		
	A	10
DC	V	250
DC	A	1
Short Circuit Current Rating	SCCR	
Basic Rating		_
SCCR	kA	5
max. Fuse	Α	125
max. CB	Α	125
480 V High Fault		
SCCR (fuse)	kA	10/100
max. Fuse	Α	125/70 Class J
SCCR (CB)	kA	10/65
max. CB	Α	50/32
600 V High Fault		
SCCR (fuse)	kA	10/100
max. Fuse	Α	125/100 Class J
SCCR (CB)	kA	10/22
max. CB	Α	50/32
Special Purpose Ratings		
Electrical Discharge Lamps (Ballast)		
480V 60Hz 3phase, 277V 60Hz 1phase	Α	40
600V 60Hz 3phase, 347V 60Hz 1phase	Α	40
Incandescent Lamps (Tungsten)		
480V 60Hz 3phase, 277V 60Hz 1phase	Α	40
600V 60Hz 3phase, 347V 60Hz 1phase	Α	40
Resistance Air Heating		
480V 60Hz 3phase, 277V 60Hz 1phase	Α	40
600V 60Hz 3phase, 347V 60Hz 1phase	Α	40
Refrigeration Control (CSA only)		
LRA 480V 60Hz 3phase	Α	240
FLA 480V 60Hz 3phase	Α	40
LRA 600V 60Hz 3phase	Α	180
FLA 600V 60Hz 3phase	Α	30
Definite Purpose Ratings (100,000 cycles acc. to UL 1995)		
LRA 480V 60Hz 3phase	Α	150
FLA 480V 60Hz 3phase	Α	25
Elevator Control		
200V 60Hz 3phase	HP	3
200V 60Hz 3phase	Α	11
240V 60Hz 3phase	HP	5
240V 60Hz 3phase	Α	15.2
480V 60Hz 3phase	HP	10
480V 60Hz 3phase	Α	14
600V 60Hz 3phase	HP	15
600V 60Hz 3phase	Α	17

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	45
Heat dissipation per pole, current-dependent	$P_{vid}$	W	4.4
Equipment heat dissipation, current-dependent	$P_{vid}$	W	13.2
Static heat dissipation, non-current-dependent	$P_{vs}$	W	2.1

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**

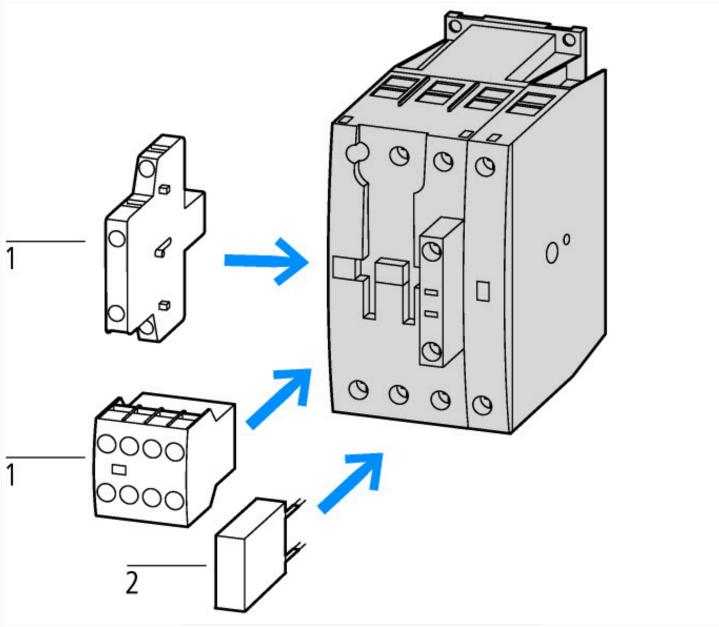
Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066) Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015]) ٧ Rated control supply voltage Us at AC 50HZ 230 - 230 Rated control supply voltage Us at AC 60HZ ٧ 240 - 240 ٧ Rated control supply voltage Us at DC 0 - 0 AC Voltage type for actuating 45 Rated operation current le at AC-1, 400 V Α Rated operation current le at AC-3, 400 V Α 25 Rated operation power at AC-3, 400 V kW 11 15 Rated operation current le at AC-4, 400 V Α Rated operation power at AC-4, 400 V kW 7 Rated operation power NEMA kW 11 No Modular version 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

## **Approvals**

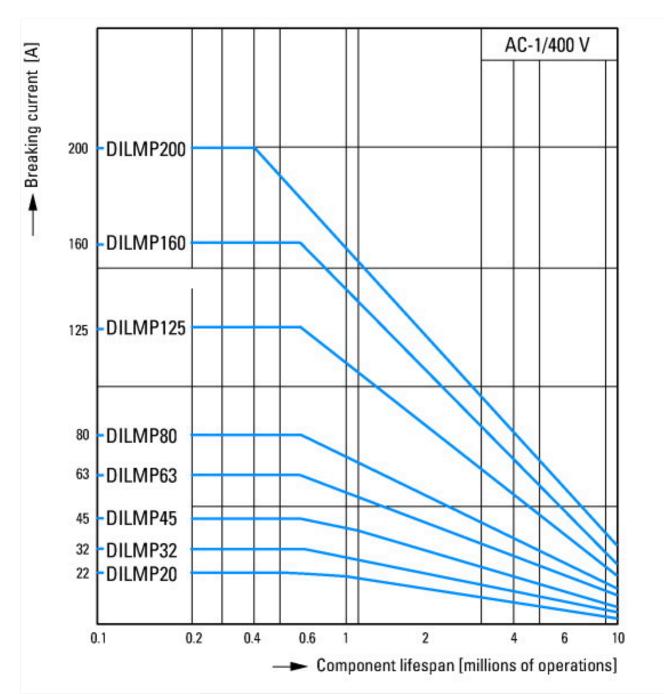
Product Standards	IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking
UL File No.	E29096
UL Category Control No.	NLDX

CSA File No.	012528
CSA Class No.	2411-03, 3211-04
North America Certification	UL listed, CSA certified
Specially designed for North America	No

# **Characteristics**



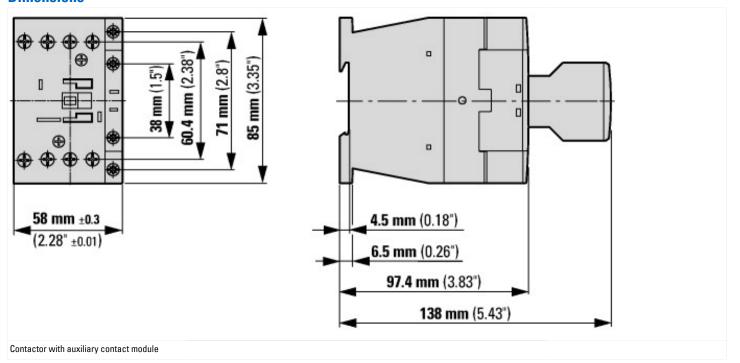
- 1: Auxiliary contact module 2: Suppressor

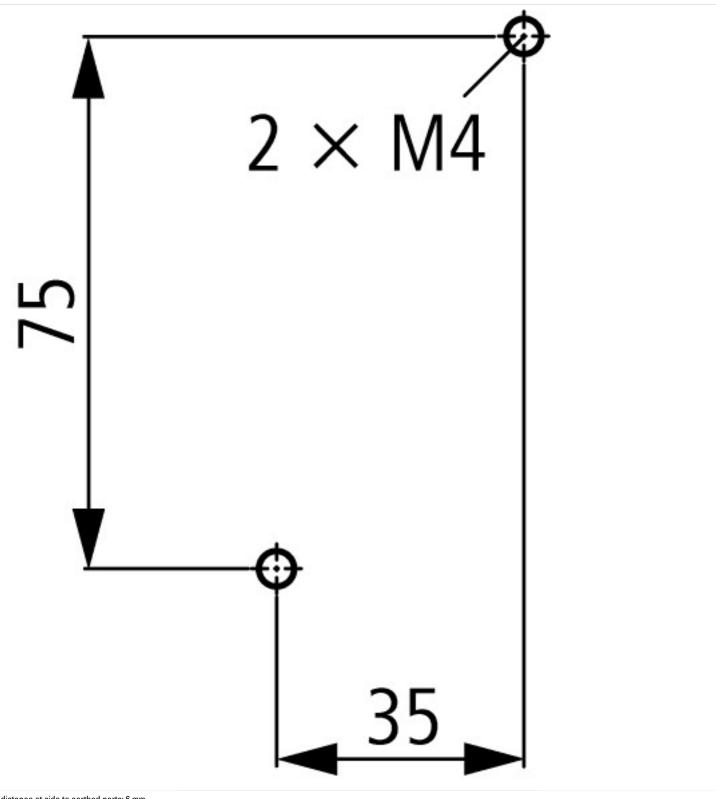


Switching conditions for 4 pole, non-motor loads Operating characteristics
Non inductive and slightly inductive loads Electrical characteristics
Switch on: 1 x rated operational current
Switch off: 1 x rated operational current
Utilization category
100 % AC-1
Typical examples of application

Electric heat

# **Dimensions**





distance at side to earthed parts:  $6\ mm$ 

DILMP32 DILMP45