### **DATASHEET - DILEM-01-G(24VDC)**



Contactor, 24 V DC, 3 pole, 380 V 400 V, 4 kW, Contacts N/C = Normally closed= 1 NC, Screw terminals, DC operation



Part no. Catalog No. Alternate Catalog No. 4130389 **EL-Nummer** (Norway)

DILEM-01-G(24VDC) 010343 XTMC9A01TD

**Delivery program** 

Derivery program			
Product range			Contactors
Application			Mini Contactors for Motors and Resistive Loads
Subrange			DILEM contactors
Utilization category			AC-1: Non-inductive or slightly inductive loads, resistance furnaces NAC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching
			IE3 🗸
Notes			Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging.
Connection technique			Screw terminals
Description			With auxiliary contact
Number of poles			3 pole
Rated operational current			
AC-3			
380 V 400 V	۱ <sub>e</sub>	А	9
AC-1			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	I <sub>th</sub> =I <sub>e</sub>	А	22
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	Р	kW	2.2
380 V 400 V	Р	kW	4
660 V 690 V	Р	kW	4
AC-4			
220 V 230 V	Р	kW	1.5
380 V 400 V	Р	kW	3
660 V 690 V	Р	kW	3
Contacts			
N/C = Normally closed			1 NC
Contact sequence			$\begin{array}{c c} A1 & 11 & 13 & 15 & 121 \\ \hline \\ A2 & 12 & 14 & 6 & 122 \end{array}$
Instructions			Integrated diode-resistor combination
For use with			DILE
Actuating voltage			24 V DC
Voltage AC/DC			DC operation

#### **Technical data** General

Gonoral			
Standards			IEC/EN 60947, VDE 0660, CSA, UL
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	20
Maximum operating frequency			

Mashanias		One /	0000
Mechanical electrical (Contactors without overload relay)	Operations/h	Ops./h	9000 Page 05/070
	Operations/II		Damp heat, constant, to IEC 60068-2-78
Climatic 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	0.206
Terminal capacity of auxiliary and main contacts Screw terminals			
Solid		2	1 x (0.75 - 2.5)
Sulu		mm <sup>2</sup>	2 x (0.75 - 2.5)
Flexible with ferrule		mm <sup>2</sup>	1 × (0.75 - 1.5) 2 × (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	11.	VAC	2000
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
			111/3
		V A C	000
Rated insulation voltage	Ui	V AC	690
Overvoltage category/pollution degree Rated insulation voltage Rated operational voltage	U <sub>i</sub> U <sub>e</sub>	V AC V AC	690 690
Rated insulation voltage Rated operational voltage Safe isolation to EN 61140		V AC	690
Rated insulation voltage Rated operational voltage			

Image: Set of the	Breaking capacity			
Set Valoy VImage: Set Valoy VImage: Set Valoy VImage: Set Valoy VImage: Set Valoy VSet Valoy VImage: Set Valoy VImage: Set Valoy VImage: Set Valoy VTors Valoy Va			А	90
Solv 00 YesA A A AA A A A A A A A A A A A A A A A A A A B A A A A B A A B A A A B A A B A A A B A A A A A B A A A A A A A A A A A A A A A A A A A B A A A B A A B A A B A A B A B A B A B A B A B A B A B A B A B A B B A B B A B B A B B A B <br< td=""><td></td><td></td><td></td><td></td></br<>				
NoteNoteNoteNoteNoteSolutionSolutionSolutionSolutionSolutionNoteSolution <td></td> <td></td> <td></td> <td></td>				
Set of the set o				
Pyer 2: 50%undAiTyper 2: 50%undABPyer 2: 50%undBBActABBRent constraints curvertNABConsultation transit turmal curvert 3 pale, 30 + 00 + 00 + 00 + 00 + 00 + 00 + 00				-
Page "1.50%etc.AC1ARecentional trace it should carrent. 3 polo, 50 - 60 k and trace it should carrent. 3 polo, 50 k and trace it should carrent. 3 polo, 50 k and trace it should carrent. 3 polo, 50 k and trace it should carrent. 3 polo, 50 k and trace it should carrent. 3 polo, 50 k and trace it should carrent. 3 polo, 50 k and trace it should carrent. 3 polo, 50 k and trace it should carrent. 3 polo, 50 k and trace it should carrent and trace it should carrent and trace it should carrent and trace it should carre		qL/qG	A	10
ACImage: set of the set of th				
NetImage: set in the set intermaturent, spon, SO and Mark and NoImage: set in the set intermaturent, spon, SO and Mark and NoImage: set in the set intermaturent, spon, SO and Mark and NoImage: set in the set intermaturent, spon, SO and Mark and NoImage: set intermaturent, spon, SO and Mark and Mark<		0.0		
Convertional free air themal current, 3 pair, 50-00 HNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal NormalNormal Nor	AC-1			
OpenOpenOpenOpena 40°AAa 40°AA <td>Rated operational current</td> <td></td> <td></td> <td></td>	Rated operational current			
inder <t< td=""><td>Conventional free air thermal current, 3 pole, 50 - 60 Hz</td><td></td><td></td><td></td></t<>	Conventional free air thermal current, 3 pole, 50 - 60 Hz			
ref of the second sec	Open			
indicationindicationindicationindicationIndicationindication </td <td>at 40 °C</td> <td><math>I_{th} = I_e</math></td> <td>А</td> <td>22</td>	at 40 °C	$I_{th} = I_e$	А	22
inclusioninclusioninclusionNotesAnaximum parmissible ambient air temperature.NotesAnaximum parmissible ambient air temperature.notesInclusionnotes <td>at 50 °C</td> <td>I<sub>th</sub>=I<sub>e</sub></td> <td>А</td> <td>20</td>	at 50 °C	I <sub>th</sub> =I <sub>e</sub>	А	20
NosAnswine pertainable antient at emperature.Conventional free air thema current, tope NosNosAnswine permisable ambient air emperature.Import NosImport NosImport NosAC-3Import NosImport NosConventional free air Management NosImport NosImport NosConventional free air Management NosImport NosImport NosOpen-Fander SameImport NosImport NosNosImport NosImport Nos<	at 55 °C	I <sub>th</sub> =I <sub>e</sub>	А	19
Conventional free in themasi current, typeAndAndNoiseNoiseAndAndopen dorutional currentNoiseAndAndRind oprational currentNoiseAndAndOpen Solutional currentNoiseAndAndOpen Solutional currentNoiseAndAndOpen Solutional currentNoiseAndAndOpen Solutional currentNoiseAndAndOpen Solutional currentNoiseAndAndOpen Solutional currentNoiseAndAndNoiseNoiseAnd </td <td>enclosed</td> <td>I<sub>th</sub></td> <td>А</td> <td>16</td>	enclosed	I <sub>th</sub>	А	16
Conventional free in themasi current, typeAndAndNoiseNoiseAndAndopen dorutional currentNoiseAndAndRind oprational currentNoiseAndAndOpen Solutional currentNoiseAndAndOpen Solutional currentNoiseAndAndOpen Solutional currentNoiseAndAndOpen Solutional currentNoiseAndAndOpen Solutional currentNoiseAndAndOpen Solutional currentNoiseAndAndNoiseNoiseAnd </td <td>Notes</td> <td></td> <td></td> <td>At maximum permissible ambient air temperature.</td>	Notes			At maximum permissible ambient air temperature.
Notes				
inclosed         Incl         AC           Relid operational current         Note         Acconcentrent           Notes         Acconcentrent         Acconcentrent           Notes         Acconcentrent         Acconcentrent           200 V 30 Vic         Incl         Acconcentrent           380 V 400 V         Incl         Acconcentrent           440 V         Incl         Acconcentrent           600 V 600 V         Incl         Acconcentrent           1400 V         Incl         Acconcentrent           1400 V         Incl         Acconcentrent           1400 V         Incl         Acconcentrent           1500 V         Incl         Acconcentrent           1200 V 200 V         Incl         Acconcentrent           1200 V 200 V         Pote         KV0           2300 V 400 V         Pote         KV0           1300 V 400 V         Pote         KV0           1400 V         Pote         KV0           1500 V         Pote         KV0           1500 V         Pote         KV0           1500 V         Pote         KV0           1500 V         Pote         KV1           1500 V <t< td=""><td></td><td></td><td></td><td>At maximum permissible ambient air temperature.</td></t<>				At maximum permissible ambient air temperature.
Inclused     Incluse     Incluse       AC-3     Incluse     Incluse       Red operational current     Incluse     Incluse       Open, 3-paleis D=00 kz     K     Maximu permissible ambient temperature (open,)       Red operational current     Incluse     A       220 V230 V     Incluse     A     Second kard       Red operational current     Incluse     Incluse     Second kard       Red operational current     Incluse     Incluse     Incluse	open	I <sub>th</sub>	A	
AC3Image: set of persional currentImage: set of persional currentImage: set of persional currentOpen,3-point: 50-0 bitImage: set of persional currentImage: set of persional currentImage: set of persional currentNotesImage: set of persional currentImage: set of persional currentImage: set of persional current202 V20 V20 V1Image: set of persional currentImage: set of persional currentImage: set of persional current309 V40 V1Image: set of persional currentImage: set of persional currentImage: set of persional current300 V40 V1Image: set of persional currentImage: set of persional currentImage: set of persional current300 V40 V1Image: set of persional currentImage: set of persional currentImage: set of persional current300 V40 V1Image: set of persional currentImage: set of persional currentImage: set of persional current300 V40 V1Image: set of persional currentImage: set of persional currentImage: set of persional current300 V40 V1Image: set of persional currentImage: set of persional currentImage: set of persional current300 V40 V1Image: set of persional currentImage: set of persional currentImage: set of persional current300 V40 V1Image: set of persional currentImage: set of persional currentImage: set of persional current300 V40 V1Image: set of persional currentImage: set of persional currentImage: set of persional current300 V40 V1Image: set of persional currentImage: set of persional currentIm	enclosed		А	40
Reted operational currentImage: set of the set of t	AC-3			
Open 3-gole: 50 - 60 HzFeed Part Part Part Part Part Part Part Part				
NotesNotesNotesAn animum permissible ambient temperature (open.)20 V20 VIA9240 VIA9300 V00 VIA9440VIA9440VIA9500 VIA9500 VIA9600 V600 VIA9200 V200 VPKW2200 V200 VPKW2200 V200 VPKW3200 V200 VPKW3200 V200 VPKW3200 V200 VPKW3200 V200 VPKW3200 V200 VPKW3200 V200 VPKW4200 V200 VPKW1200 V200 VFKW1200 V200 VFKW1200 V200 V </td <td></td> <td></td> <td></td> <td></td>				
20 V20 VIAA20 V20 VIA9380 V40 VIA9415 VIA9415 VIA9400 VIA9500 VIA4500 VIA4500 VIA4600 V80 VIA4220 V20 VPKW2240 VPKW2240 VPKW3415 VPKW4416 VPKW4417 VPKW4400 VPKW4400 VPKW4500 VPKW4600 V60 VPKW4700 - Sploi S0 - 60 H2PKW5700 - Sploi S0 - 60 H2FKW5720 V20 VIA6720 V20 VIA6740 VIA6740 VIA6740 VIA6740 VIA6740 V				At maximum permissible ambient temperature (open.)
240 VInInInInIn380 400 VInInInIn415 VInInInIn440 VInInInIn500 VInInInIn660 4680 VInInInInMotor ratingInInInIn200 203 VInInInIn200 203 VInInInIn200 203 VInInInIn200 203 VInInInIn200 203 VInInInIn200 203 VInInInIn440 VInInInIn440 VInInInIn600 400 VInInInIn600 400 VInInInIn700 400 VInInIn	220 V 230 V	l <sub>e</sub>	A	
380 400 V         I         A         9           415 V         I         A         9           440 V         I         A         9           500 V         I         A         6           600 V690 V         I         A         6           Motor reting         I         A         4           Motor reting         P         KM         1           2400 V         P         KM         2           380 V400 V         P         KM         2           380 V400 V         P         KM         4           440 V         P         KM         4           440 V         P         KM         4           600 V690 V         P         KM         4           700 P.3-pole: 50 -60 Hz         P         KM         5           720 V230 V         I         I         A         6           300 V400 V         I	240 V		A	9
Image: August of the sector of the				
440VIA9500 VIA6660 V680 VIA4660 V680 VIA4720 V20 VPKW2220 V20 VPKW2230 V400 VPKW41415 VPKW4440 VPKW4600 V680 VPKW4600 V680 VPKW4600 V680 VPKW4600 V680 VPKW4700 NPKW4700 NPKW1720 V200 VPKW5720 V200 VIKW6720 V200 VIK5720 V200 VIK6720 V200 VIK6740 V<				
500 VIqA6600 V600 VIqIqIqMotor ratingPKW2200 V200 VPKW2200 V200 VPKW3440 VPKW3440 VPKW4600 V600 VPKW4600 V600 VPKW4600 V600 VPKW4700 VPKW1700 VPKW1700 VPKW1700 VPKW1700 VPKW1700 VPKW1700 VPKW1700 VFF1700 VIqA6700 VIqIqA700 VIqIqA700 VIqIqA700 VIqIqIq700 VIq<				
660 V 600 VIAAMotor raingPKW220 V 20 VPKW220 V 20 VPKW3400 VPKW4415 VPKW4400 VPKW4500 V 600 VPKW4600 V 600 VPKW4600 V 600 VPKW47 MotePKW47 MotePKW47 MotePKW47 MotePKW47 MotePKW47 MotePKW57 MotePKW67 MoteR667 MoteR66<				
Motor ratingPKM20 V 20 VPKU20 V 20 VPKU30 V 40 VPKU415 VPKU40 VPKU500 VPKU600 V 600 VPKUAc4FF7 MotosFF7 J V 20 V				
20PKV220VPKV520VPKV430V 400 VPKV340VPKV440VPKV4500 VPKV4600 V600 VPKV4600 V600 VPKV4600 V600 VPKV4600 V600 VPKV4700 VPKV4600 V600 VPKV4700 VPKV4700 VPKV4700 VPKV5700 VPKV5700 VPKV6700 VPKV6700 VPKV6700 VPKV6700 VPKV6700 VPKV7700 VPF7700 VPF7700 VPKV7700 VPKV7700 VPF7700 VP </td <td></td> <td></td> <td></td> <td>4.8</td>				4.8
PIRVRVS30 \ 400 \PKV4415 \PKV440 \PKV450 \PKV460 \ 600 \PKV4Ac4FFFNotsFFF20 \ 230 \PKV620 \ 400 \PKV630 \ 400 \PKVF1 \ 100 \FFF1 \ 100 \FFF <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
S80 400 VPKV4415 VPKV3440 VPKV4440 VPKV4500 VPKV4660 460 VPKV4AC-4PFFRated operational currentPFFNotesPFF20 V230 VIIAmainum permissible ambient air temperature.20 V230 VIIG380 440 VIG440 VIG300 VII440 VII60 0690 VII60 0690 VII60 0690 VIIMotor rungIIMotor rungIIMotor rungIIMotor rungIIMotor rungIIMotor rungIIMotor rungIIMotor rungIIMotor rungII <td></td> <td></td> <td></td> <td></td>				
415 VPKV43440 VPKV46500 VPKV40660 V 690 VPKV40AC-4FFFRated operational currentFFF0 pen, 3-pole: 50 - 60 HzFKK10 pen, 3-pole: 50 - 60 HzFKK220 V 20 VFKK230 V 400 VFG6440 VFGF440 VFGF500 VFGG500 VFGG600 V 500 VFKWFMotoringFKWFMotoringFKWFFFKWFFFKWFFFKWFFFKWFFFKWFFFKWFFFKWFFFKWFFFKWFFFKWFFFKWFFFKWFFFKWFFFKWFFFFFFFFF <td></td> <td></td> <td></td> <td></td>				
40 VPKV6500 VPKV4660 V 690 VPKV4AC-4FFFRated operational currentFFF0pen, 3-pole: 50 - 60 HzFFFNotesFFF20 V 230 VIA6380 V 400 VIA6415 VIA6410 VIA6600 V 690 VIA6600 V 690 VIA6600 V 690 VIAA600 V 690 VIAAMotorIAA600 V 690 VIAAMotor TaingNAAMotor TaingIKWAMotor TaingIKWAMotor TaingIKWA				
50 VPKW4660 V 690 VPKW4AC-4FFFRated operational currentFFF0pen, 3-pole: 50 – 60 HzFFFNotesFFF220 V 230 VIA6380 V 400 VIA6415 VIA6410 VIA660 V 590 VIA660 V 590 VIA6Motor tingIA660 V 590 VIA6Motor tingIAAMotor tingIAAMotor tingIAAMotor tingIAAMotor tingIAAMotor tingIAAMotor tingIIAMotor tingIIAMotor tingIIIMotor tingIII <t< td=""><td></td><td></td><td></td><td></td></t<>				
660 V 690 V     P     KW     AC-4       Ac-4				
AC-4         Image: AC-4				
Rated operational current         Image: Particular state		r	KVV	*
Open, 3-pole: 50 – 60 Hz         Image: Sole of the sole o				
Notes         Atmaximum permissible ambient air temperature.           220 V 230 V         Ie         A         6           240 V         Ie         A         6           380 V 400 V         Ie         A         6           415 V         Ie         A         6           440 V         Ie         A         6           500 V         Ie         A         6           600 V 690 V         Ie         A         5           600 V 690 V         Ie         A         5           Mottrain         Ie         A         5				
220 V 230 V       Ie       Ae       66         240 V       Ie       Ae       66         380 V 400 V       Ie       Ae       66         415 V       Ie       Ae       66         440 V       Ie       Ae       66         500 V       Ie       Ae       66         660 V 690 V       Ie       Ae       34         Motor tail       P       Wh       Me				At maximum permissible ambient air temporature
240 V     Ie     Ae     66       380 V 400 V     Ie     Ae     66       415 V     Ie     Ae     66       440 V     Ie     Ae     66       500 V     Ie     Ae     50       660 V 690 V     Ie     Ae     340       Motor rating     P     Wh     Ye		1-	Δ	
380 V 400 V         Ie         A         66           415 V         Ie         A         66           440 V         Ie         A         66           500 V         Ie         A         66           660 V 690 V         Ie         A         340           Motor rating         P         Wh         Wh				
415 V     Ie     A       440 V     Ie     A       500 V     Ie     A       660 V 690 V     Ie     A       Motor rating     P     KWh				
440 V         Ie         Ae         66           500 V         Ie         Ae         500           660 V 690 V         Ie         Ae         340           Motor rating         Page         KWh         KWh				
500 V         Ie         Ae         500           660 V 690 V         Ie         Ae         34           Motor rating         P         KWh         KWh				
660 V 690 V     Ie     A     3.4       Motor rating     P     kWh				
Motor rating P kWh		le	A	
	660 V 690 V	le	А	3.4
	Motor rating	Р	kWh	
220 V 230 V P kW 1.5	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	Р	kW	3
660 V 690 V	Р	kW	3
C Rated operational current open			
DC-1			
12 V	le	A	20
24 V		A	20
	l <sub>e</sub>		
60 V	l <sub>e</sub>	A	20
110 V	l <sub>e</sub>	A	20
220 V	l <sub>e</sub>	A	20
Current heat losses (3- or 4-pole)			
at I <sub>th</sub> , 50 °C		W	4.4
at I <sub>e</sub> to AC-3/400 V		W	0.9
Aagnet systems			
/oltage tolerance			
DC operated			aa
Pick-up voltage			0.8 - 1.1
Power consumption			
DC operation			
Power consumption Pick-up = Sealing		VA/W	2.3
Notes		0/ D.5	Smoothed DC voltage or three-phase bridge rectifier
Duty factor		% DF	100
Switching times at 100 % U <sub>c</sub>			
Make contact		ms	
Closing delay		ms	
Closing delay min.		ms	26
Closing delay max.		ms	35
Opening delay		ms	<i></i>
Opening delay min. Opening delay max.		ms	15
		ms	25
Closing delay with top mounting auxiliary contact		ms	70
Reversing contactors Changeover time at 110 % U <sub>c</sub>			
Changeover time min.		ms	40
Changeover time max.		ms	50
Arcing time at 690 V AC Auxiliary contacts		ms	12
Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary cont nodule	tact		Yes
Rated impulse withstand voltage			
	U <sub>imp</sub>	V AC	6000
Overvoltage category/pollution degree		V AC	6000 III/3
Overvoltage category/pollution degree Rated insulation voltage		V AC	
	U <sub>imp</sub>		111/3
Rated insulation voltage	U <sub>imp</sub> U <sub>i</sub>	V AC	III/3 690
Rated insulation voltage Rated operational voltage Safe isolation to EN 61140	U <sub>imp</sub> U <sub>i</sub>	V AC	III/3 690
Rated insulation voltage Rated operational voltage Safe isolation to EN 61140 between coil and auxiliary contacts	U <sub>imp</sub> U <sub>i</sub>	V AC V AC	III/3 690 600
Rated insulation voltage Rated operational voltage Safe isolation to EN 61140 between coil and auxiliary contacts between the auxiliary contacts	U <sub>imp</sub> U <sub>i</sub>	V AC V AC V AC	III/3 690 600 300
Rated insulation voltage Rated operational voltage Safe isolation to EN 61140 between coil and auxiliary contacts	U <sub>imp</sub> U <sub>i</sub>	V AC V AC V AC	III/3 690 600 300
Rated insulation voltage Rated operational voltage Safe isolation to EN 61140 between coil and auxiliary contacts between the auxiliary contacts Rated operational current	U <sub>imp</sub> Ui Ue	V AC V AC V AC	III/3 690 600 300
Rated insulation voltage Rated operational voltage Safe isolation to EN 61140 between coil and auxiliary contacts between the auxiliary contacts Rated operational current AC-15	U <sub>imp</sub> U <sub>i</sub>	V AC V AC V AC V AC V AC	III/3 690 600 300 300

DC L/R ≦ 15 ms			
Contacts in series:		A	
1	24 V	A	2.5
2	24 V 60 V	A	2.5
3	100 V	A	1.5
3	220 V	Α	0.5
Conv. thermal current	I <sub>th</sub>	A	10
Control circuit reliability	Failure rate	λ	$<10^{-8}, <$ one failure at 100 million operations (at U <sub>e</sub> = 24 V DC, U <sub>min</sub> = 17 V, I <sub>min</sub> = 5.4 mA)
Component lifespan at U <sub>e</sub> = 240 V			
AC-15	Operations	x 10 <sup>6</sup>	0.2
DC current			
$L/R = 50$ ms: 2 contacts in series at $I_e = 0.5$ A	Operations	x 10 <sup>6</sup>	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 aC/al	c
		A gG/gL	
500 V		A fast	10
Current heat loss at a load of I <sub>th</sub> 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		HP	0.5
230 V 240 V		HP	1.5
General use		А	15
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		A	10
DC		V	250
DC		A	0.5
Short Circuit Current Rating		SCCR	
Basic Rating			
SCCR		kA	5

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	9
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0.3

Static heat dissipation, non-current-dopendentPusW23Heat dissipation capacityPdissW0Operating ambient temporature min.550ECENK 133 design verificationMeets the product standard's requirements.Meets the product standard's requirements.102.2 Corosion resistanceMeets the product standard's requirements.Meets the product standard's requirements.102.23 Verification of testistance of insulating materials to normal heatMeets the product standard's requirements.102.23 Verification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.102.23 Verification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.102.23 Verification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.102.23 Verification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.102.24 Meetsmate to ultraviolet (UV) radiationMeets the product standard's requirements.102.25 LittingDoes not apply, since the entire switchgear needs to be evaluated.102.31 Verification of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.103 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.104 Chearnees and creepse distancesMeets the product standard's requirements.103 Degree of evaluation of switching dwices and componentsStep panel builder's responsibility.104 Chearnees ind recepse distancesFee product standard's req	Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0.9
Operating ambient temperature min.	Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	2.3
Operating ambient temperature max.       Image: Constraint of the second s	Heat dissipation capacity	P <sub>diss</sub>	W	0
ECEN 81439 design verification       Image: Comparison of the status and parts         102.2 Corrosion resistance       Meets the product standard's requirements.         102.3.1 Verification of thermal stability of enclosures       Meets the product standard's requirements.         102.3.2 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         102.3.2 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         102.4 Resistance to ultra-violet (UV) rediation       Meets the product standard's requirements.         102.5 Lifting       Dees not apply, since the entire switchgear needs to be evaluated.         102.5 Lifting       Dees not apply, since the entire switchgear needs to be evaluated.         102.5 Lifting       Dees not apply, since the entire switchgear needs to be evaluated.         102.5 Inscriptions       Meets the product standard's requirements.         103.5 Degree of protection of ASSEMBLIES       Dees not apply, since the entire switchgear needs to be evaluated.         104.7 Inscriptions       Interple service s	Operating ambient temperature min.		°C	-25
102 Strength of materials and parts       Meets the product standard's requirements.         102.21 Verification of thermal stability of enclosures       Meets the product standard's requirements.         102.32.2 Verification of resistance of insulating materials to normal heat       Meets the product standard's requirements.         102.32.3 Verification of resistance of insulating materials to abnormal heat and fire due to instenai aliatinic effects       Meets the product standard's requirements.         102.32.4 Verification of resistance of insulating materials to abnormal heat and fire due to instenai aliatinic effects       Meets the product standard's requirements.         102.4 Resistance to ultra-violet (UV) radiation       Meets the product standard's requirements.         102.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         102.7 Inscriptions       Does not apply, since the entire switchgear needs to be evaluated.         103.2 Portection of ASSEMBLIES       Does not apply, since the entire switchgear needs to be evaluated.         104.2 Clearances and creepage distances       Meets the panel builder's responsibility.         105.8 Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         104.2 Internal electrical circuits and connections       Is the panel builder's responsibility.         108.2 Power-frequency electric strength       Is the panel builder's responsibility.         108.3 Inpulse withstand votage       <	Operating ambient temperature max.		°C	50
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 and fire due to internal electric affects       Meets the product standard's requirements.         10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric affects       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.         10.4 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.         10.8 Connections for external conductors       Is the panel builder's responsibility.         10.8 Connections for external on ductors       Is the panel builder's responsibility.         10.8 Incorporation of switching devices and components       Is the panel bui	IEC/EN 61439 design verification			
102.3.1 Verification of thermal stability of enclosures       Meets the product standard's requirements.         102.3.2 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         102.3.3 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         102.4 Resistance to ultra-violet (UV) radiation       Meets the product standard's requirements.         102.4 Resistance to ultra-violet (UV) radiation       Meets the product standard's requirements.         102.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         102.7 Inscriptions       Does not apply, since the entire switchgear needs to be evaluated.         103.0 Egree of protection of ASSEMBLIES       Does not apply, since the entire switchgear needs to be evaluated.         104.5 Encorporation of switching devices and components       Does not apply, since the entire switchgear needs to be evaluated.         105.7 Internal electric strongth       Is the panel builder's responsibility.         105.8 Connections for external conductors       Is the panel builder's responsibility.         109.1 Subulation properties       Is the panel builder's responsibility.         109.2 Power-frequency electric strength       Is the panel builder's responsibility.         109.3 Impulse withstand voltage       Is the panel builder's responsibility.         10.10 Temperature rise       Is th	10.2 Strength of materials and parts			
10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects       Meets the product standard's requirements.         10.2.3 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       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Lifting       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.         10.7 Internal electrical circuits and connections       Does not apply, since the entire switchgear needs to be evaluated.         10.7 Internal electric is for external conductors       Is the panel builder's responsibility.         10.8 Incorporation of switching devices and components       Is the panel builder's responsibility.         10.8 Incorporation of subating material       Is the panel builder's responsibility.         10.9 Power-frequency electric strength       Is the panel builder's responsibility.         10.9 Power-frequency electric strength	10.2.2 Corrosion resistance			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.         10.2.7 Inscriptions       Meets the product standard's requirements.         10.3.2 Jinscriptions       Meets the product standard's requirements.         10.3.2 Jinscriptions       Meets the product standard's requirements.         10.3.2 Jinscriptions       Meets the product standard's requirements.         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.         10.7 Internal electrical circuits and components       Does not apply, since the entire switchgear needs to be evaluated.         10.9 Insulation properties       Is the panel builder's responsibility.         10.9 Power-frequency electric strength       Is the panel builder's responsibility.         10.9.1 Temperature rise       Is the panel builder's responsibility.         10.10 Temperature rise       Is the panel builder's responsibility. The specifications for the switchgear must be observed.         10.11 Short-circuit rating       Is the panel builder's responsibility. The specifications for the s	10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
and fire due to internal electric effects       Meets the product standard's requirements.         10.2.4 Resistance to ultra-violet (UV) radiation       Does not apply, since the entire switchgear needs to be evaluated.         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       Does not apply, since the entire switchgear needs to be evaluated.         10.3.1 Degree of protection of ASSEMBLIES       Does not apply, since the entire switchgear needs to be evaluated.         10.4 Clearances and creepage distances       Does not apply, since the entire switchgear needs to be evaluated.         10.5 Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         10.7 Internal electrical circuits and components       Does not apply, since the entire switchgear needs to be evaluated.         10.9 Insulation properties       Does not apply, since the entire switchgear needs to be evaluated.         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.         10.10 Temperature rise       Is the panel builder's responsibility.         10.11 Temperature rise       Is the panel builder's responsibility. The specifications for the switchgear must be obsereved.         10.	10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.1 Resulter inseIs the panel builder's responsibility.10.10 Temperature riseIs the panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionIs the panel builder's responsibility. The specifications for the switchgear must be observed.				Meets the product standard's requirements.
10.2.6 Mechanical impactDees not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9.1 Power-frequency electric strengthIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.10 Temperature riseIs the panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionThe device meets the requirements, provided the information in the instruction	10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
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.         10.9.1 Insulation properties       Is the panel builder's responsibility.         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.         10.10 Temperature rise       The panel builder's responsibility.         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	10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.3 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9.1 Supulse withstand voltageIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.10 Temperature riseThe panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionThe device meets the requirements, provided the information in the instruction	10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9.1 Insulation propertiesIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.4 Testing of enclosures made of insulating materialIs the panel builder's responsibility.10.10 Temperature riseIs the panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionThe device meets the requirements, provided the information in the instruction	10.2.7 Inscriptions			Meets the product standard's requirements.
10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9.1 Insulation propertiesIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.10 Temperature riseIs the panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionThe device meets the requirements, provided the information in the instruction	10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.9.4 Testing of enclosures made of insulating materialIs the panel builder's responsibility.10.10 Temperature riseIs the panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionThe device meets the requirements, provided the information in the instruction	10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.9.4 Testing of enclosures made of insulating materialIs the panel builder's responsibility.10.10 Temperature riseIs the panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionThe device meets the requirements, provided the information in the instruction	10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductorsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.9.4 Testing of enclosures made of insulating materialIs the panel builder's responsibility.10.10 Temperature riseThe panel builder is responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionThe device meets the requirements, provided the information in the instruction	10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.9 Insulation propertiesImage: Control of the second	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.9.4 Testing of enclosures made of insulating materialIs the panel builder's responsibility.10.10 Temperature riseIs the panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionThe device meets the requirements, provided the information in the instruction	10.8 Connections for external conductors			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 responsibile 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, provide the information in the instruction	10.9 Insulation properties			
10.9.4 Testing of enclosures made of insulating material       Is the panel builder's responsibility.         10.10 Temperature rise       Is 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	10.9.2 Power-frequency electric strength			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, provide the information in the instruction	10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
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       Image: Compatibility of the switchgear must be observed.	10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.12 Electromagnetic compatibility       observed.         10.13 Mechanical function       Is the panel builder's responsibility. The specifications for the switchgear must be observed.	10.10 Temperature rise			
10.13 Mechanical function     observed.       The device meets the requirements, provided the information in the instruction	10.11 Short-circuit rating			
	10.12 Electromagnetic compatibility			
	10.13 Mechanical function			

# **Technical data ETIM 7.0**

Low-voltage industrial components (EG000017) / Power contactor, AC switching	(EC000066)		
Electric engineering, automation, process control engineering / Low-voltage sv	vitch 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		А	22
Rated operation current le at AC-3, 400 V		А	9
Rated operation power at AC-3, 400 V		kW	4
Rated operation current le at AC-4, 400 V		Α	6.6
Rated operation power at AC-4, 400 V		kW	3
Rated operation power NEMA		kW	3.7
Modular version			No
Number of auxiliary contacts as normally open contact			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

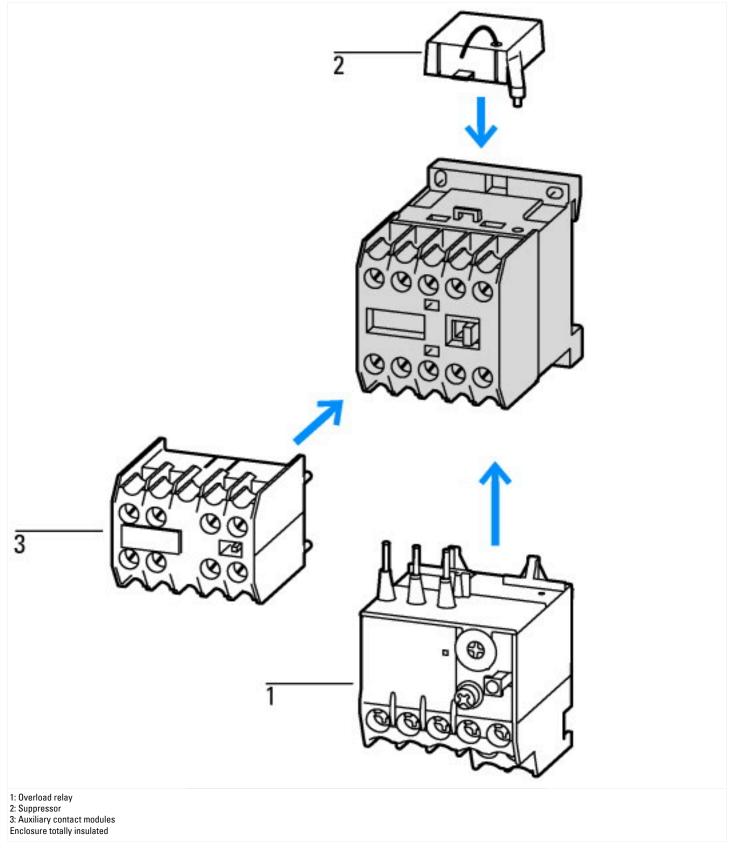
# **Approvals**

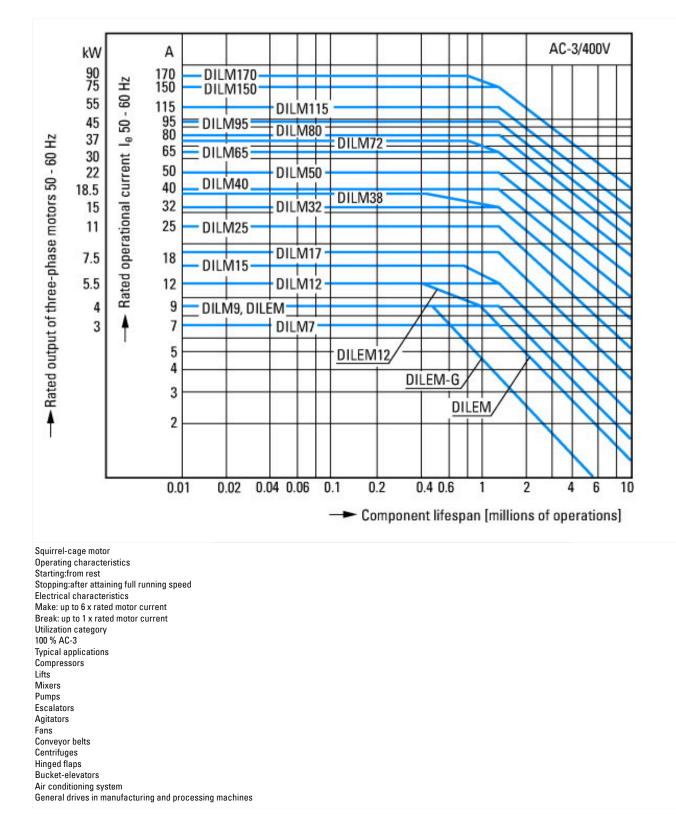
Product Standards

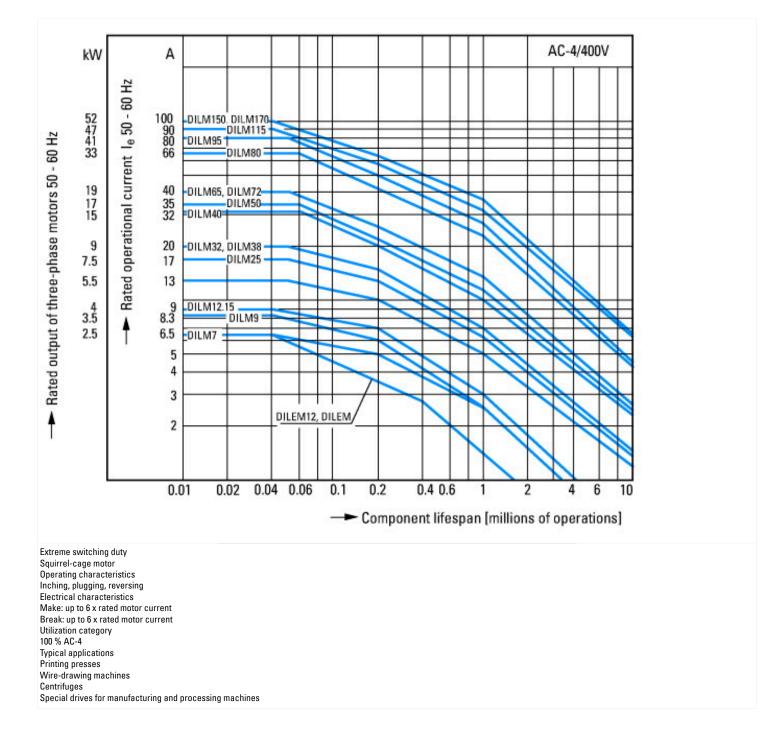
IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking

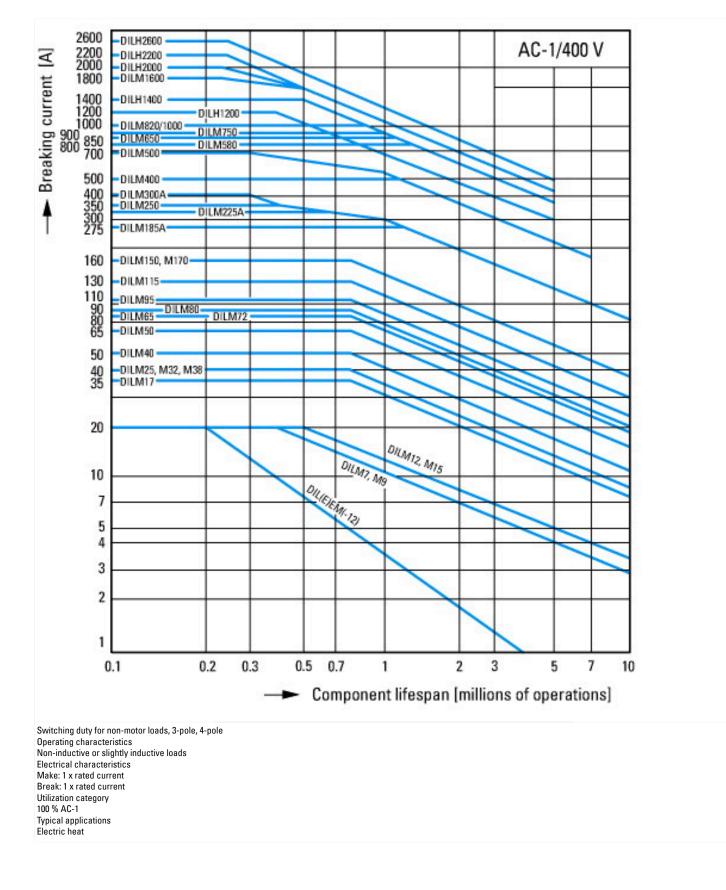
UL File No.	E29096
UL Category Control No.	NLDX
CSA File No.	012528
CSA Class No.	3211-04
North America Certification	UL listed, CSA certified
Specially designed for North America	No

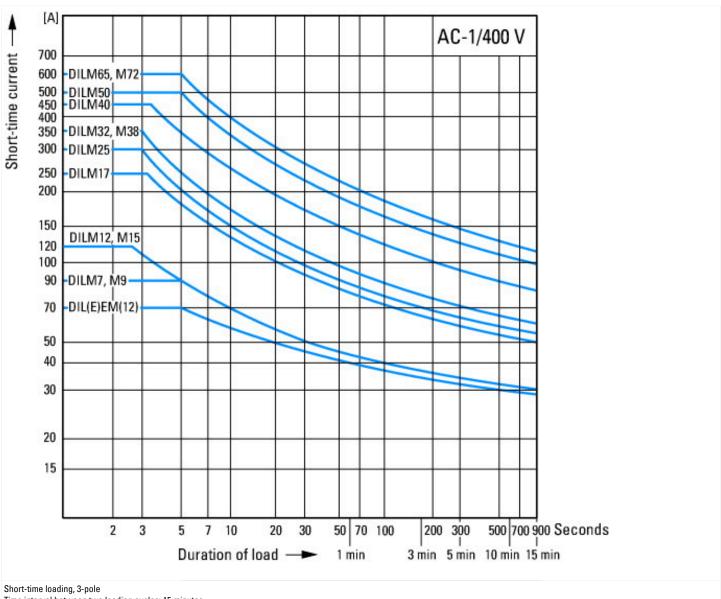
## **Characteristics**





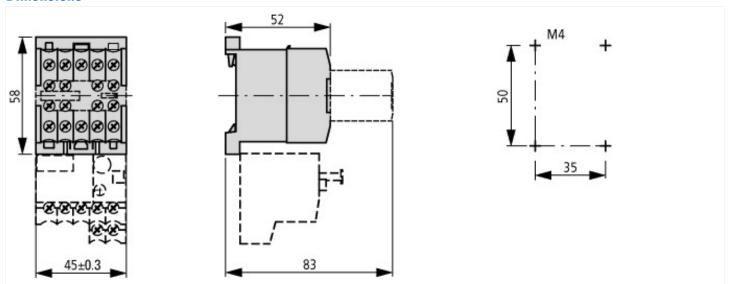


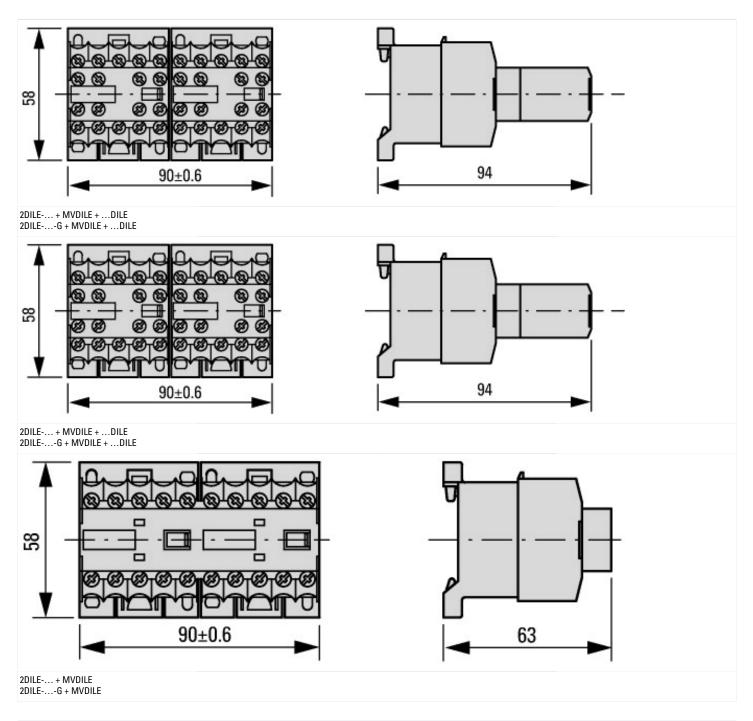




Time interval between two loading cycles: 15 minutes

#### **Dimensions**





### **Assets (links)**

Declaration of CE Conformity 00003110

Instruction Leaflets IL03407009Z2018\_04