DATASHEET - DILM580/22(RA250)



Contactor, 380 V 400 V 315 kW, 2 N/O, 2 NC, RA 250: 110 - 250 V 40 - 60 Hz/110 - 350 V DC, AC and DC operation, Screw connection



Part no.	DILM580/22(RA250)
Catalog No.	208216
Alternate Catalog	XTCE580N22A
No.	
EL-Nummer	4134087
(Norway)	

Delivery program

bontory program			
Product range			Contactors
Application			Contactors for Motors
Subrange			Comfort devices greater than 170 A
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
Connection technique			Screw connection
Rated operational current			
AC-3			
380 V 400 V	I _e	А	580
AC-1			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	I _{th} =I _e	А	980
Conventional free air thermal current, 1 pole			
open	I _{th}	А	2000
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	Р	kW	185
380 V 400 V	Р	kW	315
660 V 690 V	Р	kW	560
1000 V	Р	kW	600
AC-4			
220 V 230 V	Р	kW	143
380 V 400 V	Р	kW	250
660 V 690 V	Р	kW	440
1000 V	Р	kW	509
Contact sequence			$ \begin{array}{c} A1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\$
Can be combined with auxiliary contact			DILM820-XHI
Actuating voltage			RA 250: 110 - 250 V 40 - 60 Hz/110 - 350 V DC
Voltage AC/DC			AC and DC operation
Contacts			
N/O = Normally open			2 N/O
N/C = Normally closed			2 NC
Auxiliary contacts			
possible variants at auxiliary contact module fitting options			on the side: 2 x DILM820-XHI11(V)-SI; 2 x DILM820-XHI11-SA
Side mounting auxiliary contacts			
Instructions			Interlocked opposing contacts according to IEC/EN 60947-5-1 Appendix L, inside the auxiliary contact module Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open)
Instructions			integrated suppressor circuit in actuating electronics

Tec	hnical	data
C	and the	

StandardControl (CPU M04, VIDE 560, UL CSALegaci, machanicalOperationsICongramaticSampleSampleA disperationOperationsNoteA disperationOperationsNoteConstant segmentsOperationsNoteConstant segmentsOperationsNoteConstant segmentsNoteNoteSouther segmentsNoteNoteSouther segmentsNoteNoteSouther segmentsNoteNoteSouther segmentsNoteNoteSouther segmentsNoteNot	General			
AdopsetedQuestionQuesti				IEC/EN 60947, VDE 0660, UL, CSA
DecentedDeretation <th< td=""><td></td><td></td><td></td><td></td></th<>				
Appendix Questions A Doperate GO Doperate GO Doperate GO Second S GO Benefits reactions GO Open GO Benefits reactions GO Open GO Benefits reactions (Second Second Seco	AC operated	Operations	x 10 ⁶	5
A contract Operationski Box Box Box Dictinets pooling Box box Box box Box box Box Open Open Open Open Open Open Open Open Open Open Open Open Open Open Storage Open Open Open Open Open Open Motionaria Open Open Open Open Open Open No contract Open O	DC operated	Operations	x 10 ⁶	5
Commercian Constrained Constrained Dependence Dependence Stratege000 Despination Despination Constrained Constrai	Operating frequency, mechanical			
Binder banker genBank back, cycle, UE 0008-2.9 Bank back, cycle, UE 0008-2.9Behold"C-0Behold"C-0Storage"C-0Muridig gestion"C-0Muridig gestion	AC operated	Operations/h		1000
Abeat memoran Market memorane Market memorane Opan C An-40 Songe C An-40 Songe C An-40 Market memorane C An-40 Songe C An-40 Market memorane C C Anality center C C No contact C C Anality center C C Anality center C C Anality center C C Anality center C C Anality cen	DC operated	Operations/h		1000
Open<<Benden </td <td>Climatic proofing</td> <td></td> <td></td> <td></td>	Climatic proofing			
InclusionInclusionInclusionInclusionInclusionSinceInclusionInclusionInclusionInclusionMathematical statusInclusionInclusionInclusionMathematical st	Ambient temperature			
StrageAber 200Aber 200<	Open		°C	-40 - +60
Animing optition Image: Section of Sectin of Sectin of Section of Section of Sectin of Section o	Enclosed		°C	- 40 - + 40
k k i	Storage		°C	- 40 - + 80
Mail: sinuscidal shock, 10 ms Profection Mail: contacts Profection MC contact Profection Auxiliary contacts Profection NC contact Profection Degree of Protection Profection Protection spainst direct contact when actuated from front (EN S0274) Profection Attade Profection Methy Profection Act Coperated Profection Methy Profection	Mounting position			
Main contactsMain contactsMain contactsAxiliary contactsGGAxiliary contactsGGM0 contactGGM0 contactGG <trr>M0 contact</trr>	Mechanical shock resistance (IEC/EN 60068-2-27)			
N0 contactPPAuxiliary contacts90N0 contact90NC contact90Opere of Nore100Portection100Notation against direct contact when actuated from from (EN 5027)Nore and back-of-hand proof with terminal should or terminal blockNotation against direct contact when actuated from from (EN 5027)Nore and back-of-hand proof with terminal should or terminal blockNotation against direct contact when actuated from from (EN 5027)Nore and back-of-hand proof with terminal should or terminal blockNotation against direct contact when actuated from from (EN 5027)Nore and back-of-hand proof with terminal should or terminal blockNotation against direct contact when actuated from from (EN 5027)Nore and back-of-hand proof with terminal should or terminal blockNotation against direct contact when actuated from from (EN 5027)Nore and back-of-hand proof with terminal should or terminal blockNotation against direct contact when actuated from from (EN 5027)Nore and back-of-hand proof with terminal should or terminal blockNore and to contact when actuated from from (EN 5007)Nore and terminal should or terminal blocksSubdir or strand-ONore and terminal should or contact contact actuatesInternation contact actuatesNore and terminal should or contact actuatesSubdir or strand-ONore and terminal blocksSubdir or strand-ONore and terminal should or contact actuatesInternation contact actuatesNore and terminal should or contact actuatesSubdir or strand-ONore and terminal should or contact ac	Half-sinusoidal shock, 10 ms			
Axiliary contacts Image: Section of the sectin of the section of the section of the section of the section of	Main contacts			
No contactg g ggGNC contactF00F00Protection against direct contact when actuated from from (EN 50274)F00F00AttacdF00F00F00AttacdF00F00F00AttacdF00F00F00MeightF00F00F00ActoperatedF00F00F00Do peratedF00F00F00WeightF00F00F00Terminal capacity main cableF00F00F00Stranded with cable lugF00F00F00Stranded with cable lugF00F00 <td< td=""><td>N/O contact</td><td></td><td>g</td><td>10</td></td<>	N/O contact		g	10
NC context g g g g Degree of Protection FOR FOR Protection against direct contact when actuated from from (EN 50274) FOR For Attude For For Attude For For Protection against direct contact when actuated from from (EN 50274) For For Attude For For For Veright For For For D Coperated For For For Weight For For For Terminal capacity main cable For For For For for standed For For For Stranded with cable lug ma ² For Sol MCM Solid or stranded For For For Solid or stranded For For For Busbar Verture ma For Solid or stranded For For For Solid or stranded <t< td=""><td>Auxiliary contacts</td><td></td><td></td><td></td></t<>	Auxiliary contacts			
Degree of Protection Protection against direct contact when actuated from from (EN 50274) Finper and back-of-hand proof with terminal shroud or terminal block Aktude Max. 2000 Weight Max. 2000 AC operated Log Kg Deprated Log Kg Operated Log Kg Weight Sci Sci Terminal capacity main cable Max. Sci FaxBeb with cable lug Max. Sci Standed with cable lug Max. Sci Solid or stranded Max. Sci Busbar Max. Sci Sci Terminal capacity notic locks Max. Sci Sci Solid or stranded Max. Sci Sci Busbar Weith Max. Sci Sci Terminal capacity notic locks Max. Sci Sci Solid or stranded Max. Sci Sci Sci Busbar Max. Sci Sci Sci Solid or stranded Max. Sci Sci Sci Solid or stranded Max. Sci Sci Sci Solid or stranded Max. Sci Sci Sci <td< td=""><td>N/O contact</td><td></td><td>g</td><td>10</td></td<>	N/O contact		g	10
Protection against direct contact when actuated from front (EN 50274) Image: Protection against direct contact when actuated from front (EN 50274) Image: Protection against direct contact when actuated from front (EN 50274) Altitude Max. 2000 Weight Standa Image: Protection against direct contact when actuated from front (EN 50274) A Coparated Kg Image: Protection against direct contact when actuated from front (EN 50274) Weight Standa Image: Protection against direct contact when actuated from front (EN 50274) Flexible with cable lug mg 0 - 200 Standad with cable lug mg 10 - 200 Standad with cable lug mg Note (Max Contact Contact Scale terminal blocks Scale	N/C contact		g	8
Altide n Max 200 Weight Kan per add Kan per add A Coperated Kan Kan D Coperated Kan Kan Weight Kan Kan Terminal capacity main cable Kan Kan Terminal capacity main cable lug Man Sold Cancender (Same) Stranded with cable lug Man 20 - 200 Solid or stranded Kan 20 - 200 Faccoductor Kan 20 - 200 Solid or stranded Kan 20 - 200 Basbar Wolth Man Sold cancender (Same) Man Kan Sold cancender (Same) Man Solid or stranded Kan Sold cancender (Same) Man Basbar Man Sold cancender (Same) Man Sold or stranded Kan Man Sold cancender (Same) Interninal capacity control circuit cables Man Sold cancender (Same) Sold or stranded Kan Man Sold cancender (Same) Sold or stranded Kan Sold cancender (Same) Sold cancender (Same) Sold or stranded Kan Sold cancender (Same) Sold cancender (Same) Sold or stranded Kan Sold cancender (Same) <td>Degree of Protection</td> <td></td> <td></td> <td>IPOO</td>	Degree of Protection			IPOO
Weight Image: second seco	Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof with terminal shroud or terminal block
A Coperatedkg6.2DC operatedkg6.2Weightkg6.2Terminal capacity main cablemark5.24Flexible with cable lugmark7.240Stranded with cable lugmark0.500 MCMFlat conductorKgmmark5.010 MCMFlat conductor circuit cablesMark5.010 MCMFlat conductor circuit cable connection screw/boltMark5.010 MCMFlat conductor circuit cable connection screw/boltMark5.010 MCMFlat conductor circuit cable connection screw/boltMark5.010 MCM	Altitude		m	Max. 2000
DC operated kg 62 Weight kg 62 Terminal capacity main cable ma ² 0-240 Flatbide with cable lug ma ² 0-240 Solid or stranded Ma 0-240 Solid or stranded Ma 0-240 Flat conductor Kg Na 0-240 Busbar Ma 0-240 Ma Torminal capacity control circuit cables Ma 0-240 Torminal capacity control circuit cables Ma 0-240 Solid or stranded Ma 0-240 Torminal capacity control circuit cables Ma 0-240 Solid or stranded Ma 0-240 Torminal capacity control circuit cables Ma 0-240 Solid or stranded Ma 0-240 Corrol circuit cable connection screw/bolt Ma 0-240 Corrol circuit cable connection screw/bolt Ma 0-240 Corrol circuit cable connection screw/bolt Ma 0-240 </td <td>Weight</td> <td></td> <td></td> <td></td>	Weight			
Weight kg 62 Terminal capacity main cable ma2 5-240 Fakible with cable lug ma2 5-240 Stranded with cable lug with main capacity for cable terminal or cable terminal blocks ma2 Busbar Main cable connection screw/bolt ma 5 Terminal capacity control circuit cables ma2 10 10 Solid Solid or stranded Ma2 10 10 Solid or stranded ma2 10,075 - 2.5) 10 10 Solid or stranded Ma2 10,075 - 2.5) 10,075 - 2.5) 10,075 - 2.5) 10,075 - 2.5) 10,075 - 2.5) 10,075 - 2.5) 10,075 - 2.5) 10,075 - 2.5) 10,075 - 2.5) 10,075 - 2.5) 10,075 - 2.5)	AC operated		kg	16.21
Terminal capacity main cable Image: Second Seco	DC operated		kg	16.21
Flexible with cable lug mm ² 50 - 240 Solid or stranded mm ² 70 - 240 Solid or stranded 2/0 - 500 MCM Flex conductor Jamellenzahl Breite x mm fxing with flat cable terminal or cable terminal blocks See terminal capacity for cable terminal blocks Busbar Multic cable connection screw/bolt mm 50 Tightening torque Nm 40 Solid scienting mm Solid or stranded mm 50 Main cable connection screw/bolt mm 50 Tightening torque mm 50 Flexible with ferrule mm 50 Solid or stranded mm 40 Control circuit cable connection screw/bolt mm 52 Flexible with ferrule mm 1x (0.75 - 2.5) Solid or stranded Mm 1x (0.75 - 2.5) Control circuit cable connection screw/bolt MM 1x (0.75 - 2.5) Solid or stranded MM 1x (0.75 - 2.5) Control circuit cable connection screw/bolt MM 1x (0.75 - 2.5) Tightening torque MM 1x (0.75 - 2.5) <td>Weight</td> <td></td> <td>kg</td> <td>16.21</td>	Weight		kg	16.21
Stranded with cable lug nm 70 - 240 Solid or stranded AWG 20 - 500 MCM Flat conductor Jamellenzabi SPrife x Dicke Mm Fising with flat cable terminal or cable terminal blocks See terminal capacity for cable terminal blocks Busbar Width mm 50 Main cable connection screw/bolt Width mm 50 Tightening torque MM 24 24 Solid or stranded Mm 24 24 Terminal capacity control circuit cables mm 51 51 Solid or stranded Mm 24 24 Terminal capacity control circuit cables mm 1x (0.75 - 2.5) 2x (0.75 - 2.5) 52 Solid or stranded MM 24 24 24 Control circuit cable connection screw/bolt mm 1x (0.75 - 2.5) 2x (0.75 - 2.5) 52 Solid or stranded MM 1x (0.75 - 2.5) 2x (0.75 - 2.5) 2x (0.75 - 2.5) Solid or stranded MM 1x (0.75 - 2.5) 32 Solid or stranded MM 35 35 Tortlow circuit cable connection screw/bolt MM 12 Tortlow circuit cable connection screw/bolt MM 12	Terminal capacity main cable			
Solid or stranded AWG 20 - 500 MCM Flat conductor Lamelleave is thing with flat cable terminal or cable terminal blocks see terminal capacity for cable terminal blocks Busbar Width mm 50 Main cable connection screw/bolt Width mm 60 Tightening torque Mm 40 40 Solid Solid Solid 40 50 Ferminal capacity control circuit cables Mm 24 50 Solid or stranded Mm 14 50 Solid or stranded Mm 14 50 </td <td>Flexible with cable lug</td> <td></td> <td>mm²</td> <td>50 - 240</td>	Flexible with cable lug		mm ²	50 - 240
Flat conductor Isomellenzable Spritts w Dicke Implementable Spritts with Spritts with Ann cable connection screw/bolt With Momentable Momentab	Stranded with cable lug		mm ²	70 - 240
Flat conductor Isomellenzable Spritts w Dicke Implementable Spritts with Spritts with Ann cable connection screw/bolt With Momentable Momentab	Solid or stranded			2/0 - 500 MCM
Main cable connection screw/bolt Mode Tightening torque Nm 24 Terminal capacity control circuit cables Immand 1×(0.75 - 2.5) Solid mmand 1×(0.75 - 2.5) Flexible with ferrule Immand 1×(0.75 - 2.5) Solid or stranded Immand 1×(0.75 - 2.5) Control circuit cables Immand 1×(0.75 - 2.5) Tightening torque Immand 1×(0.75 - 2.5) Tool Immand 1×(0.75 - 2.5) Solid or stranded Immand 1×(0.75 - 2.5) Tool Immand 1×(0.75 - 2.5) Tool Immand 1×(0.75 - 2.5) Solid or stranded Immand 1×(0.75 - 2.5) Tool Immand 1×(0.75 - 2.5) Tool Immand 1×(0.75 - 2.5) Solid or stranded Immand 1×(0.75 - 2.5) Tool Immand 1×(0.75 - 2.5)	Flat conductor	x Breite x	mm	
Tightening torque Nm 24 Terminal capacity control circuit cables Imm	Busbar	Width	mm	50
Tightening torqueNm24Terminal capacity control circuit cablesImmImmSolidmm2\$	Main cable connection screw/bolt			M10
Solidmm²x (0.75 - 2.5) x (0.75 - 2.5)Flexible with ferrulemm²x (0.75 - 2.5) x (0.75 - 2.5)Solid or strandedAWG8 - 14Control circuit cable connection screw/boltMM3.5Tightening torqueMm1.2ToolMM			Nm	24
Solidmm²x (0.75 - 2.5) x (0.75 - 2.5)Flexible with ferrulemm²x (0.75 - 2.5) x (0.75 - 2.5)Solid or strandedAWG8 - 14Control circuit cable connection screw/boltMM8 - 14Tightening torqueMm1.2ToolMMMM	Terminal capacity control circuit cables			
Solid or stranded AWG 14 Control circuit cable connection screw/bolt MG M3.5 Tightening torque Mm 1.2			mm ²	
Control circuit cable connection screw/boltMasTightening torqueNmToolImage: Control circuit cable connection screw/bolt	Flexible with ferrule		mm ²	
Tightening torque Nm 1.2 Tool Image: Constraint of the second sec	Solid or stranded		AWG	18 - 14
Tool	Control circuit cable connection screw/bolt			M3.5
	Tightening torque		Nm	1.2
Main cable				

Width across flats		mm	16
Control circuit cables			
Pozidriv screwdriver		Size	2
Main conducting paths		MAG	0000
Rated impulse withstand voltage	U _{imp}	V AC	8000
Overvoltage category/pollution degree			111/3
Rated insulation voltage	Ui	V AC	1000
Rated operational voltage	U _e	V AC	1000
Safe isolation to EN 61140			
between coil and contacts		V AC	1000
between the contacts		V AC	1000
Making capacity (p.f. to IEC/EN 60947)		Α	7800
Breaking capacity			
220 V 230 V		А	6500
380 V 400 V		А	6500
500 V		А	6500
660 V 690 V		Α	6500
1000 V		А	4350
Component lifespan			
			AC1: See → Engineering, characteristic curves AC3: See → Engineering, characteristic curves AC4: See → Engineering, characteristic curves
Short-circuit rating			
Short-circuit protection maximum fuse			
Type "2" coordination			
400 V	gG/gL 500 V	Α	630
690 V	gG/gL 690 V	A	630
1000 V	gG/gL 1000 V	A	500
Type "1" coordination			
400 V	gG/gL 500 V	A	1000
690 V	gG/gL 690 V	A	1000
1000 V	gG/gL 1000 V	A	630
AC			
AC-1			
Rated operational current			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	I _{th} =I _e	А	980
at 50 °C	$I_{th} = I_e$	А	876
at 55 °C	$I_{th} = I_e$	А	836
at 60 °C	I _{th} =I _e	А	800
Conventional free air thermal current, 1 pole			
Note			at maximum permissible ambient air temperature
open	I _{th}	A	2000
AC-3			
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
Notes			At maximum permissible ambient temperature (open.)
220 V 230 V	l _e	A	580
240 V	l _e	A	580
380 V 400 V	l _e	A	580
415 V			
	l _e	A	580
440V	l _e	A	580
500 V	l _e	A	580
660 V 690 V	.6	~	580

1000 V	le	A	435
Motor rating	Р	kWh	
220 V 230 V	Р	kW	185
240V	Р	kW	200
380 V 400 V	Р	kW	315
415 V	Ρ	kW	348
440 V	Р	kW	370
500 V	Р	kW	420
660 V 690 V	Р	kW	560
1000 V	Р	kW	600
AC-4			
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
220 V 230 V	le	A	456
240 V	l _e	A	456
380 V 400 V		A	456
	l _e		
415 V	l _e	A	456
440 V	le	A	456
500 V	l _e	A	456
660 V 690 V	le	А	456
1000 V	l _e	А	348
Motor rating	Р	kWh	
220 V 230 V	Р	kW	143
240 V	Р	kW	156
380 V 400 V	Р	kW	250
415 V	Р	kW	274
440 V	Р	kW	290
500 V	Р	kW	330
660 V 690 V	Р	kW	440
1000 V	Р	kW	509
Condensor operation			
Individual compensation, rated operational current $\mathbf{I}_{\mathbf{e}}$ of three-phase capacitors			
Open			
up to 525 V		А	463
690 V		A	265
Max. inrush current peak		x I _e	30
Component lifespan	Operations	x 10 ⁶	0.1
Max. operating frequency		Ops/h	200
Current heat loss		- 20,11	
3 pole, at I _{th} (60°)		W	61
Current heat loss at I_e to AC-3/400 V		W	32
Impedance per pole		mΩ	0.032
Magnet systems			
Voltage tolerance			
U _S			110 - 250 V 40-60 Hz
			110 - 350 V DC
AC operated	Pick-up		0.7 x U _{S min} - 1.15 x U _{S max}
DC operated	Pick-up		0.7 x U _{S min} - 1.15 x U _{S max}
AC operated	Drop-out		0.2 x U _{S max} - 0.6 x U _{S min}
DC operated	Drop-out		0.2 x U _{S max} - 0.6 x U _{S min}
Power consumption of the coil in a cold state and 1.0 x $\rm U_S$			
Note on power consumption			Control transformer with $u_k \leq 7\%$
Pull-in power	Pick-up	VA	800
Pull-in power	Pick-up	W	700
Sealing power	Sealing	VA	26.5

Sealing power	Sealing	W	11.4
Duty factor		% DF	100
Changeover time at 100 % U_S (recommended value)			
Main contacts			
Closing delay		ms	70
Opening delay		ms	110
Behaviour in marginal and transitional conditions			
Sealing			
Voltage interruptions			
(0 0.2 x U _{c min}) ≦ 10 ms			Time is bridged successfully
(0 0.2 x U _{c min}) > 10 ms			Drop-out of the contactor
Voltage drops			
(0.2 0.6 x U _{c min}) ≦ 12 ms			Time is bridged successfully
(0.2 0.6 x U _{c min}) > 12 ms			Drop-out of the contactor
(0.6 0.7 x U _{c min})			Contactor remains switched on
Excess voltage			Contractor remains switched an
(1.15 1.3 x U _{c max})			Contactor remains switched on
Pick-up phase			Contractor dags not switch on
(0 0.7 x U _{c min})			Contactor does not switch on
(0.7 x U _{c min} 1.15 x U _{c max})			Contactor switches on with certainty
Admissible transitional contact resistance (of the external control circuit device when actuating A11)		mΩ	≦ 500
PLC signal level (A3 - A4) to IEC/EN 61131-2 (type 2)			
High		V	15
Low		V	5
Electromagnetic compatibility (EMC)			
Electromagnetic compatibility			This product is designed for operation in industrial environments (environment A). Its use in residential environments (environment B) may cause radio-frequency interference, requiring additional noise suppression measures.
Rating data for approved types Switching capacity			
Maximum motor rating			
Three-phase			
200 V 208 V		HP	200
230 V 240 V		HP	200
460 V 480 V		HP	400
575 V 600 V		HP	600
General use		A	980
Auxiliary contacts			
Pilot Duty			4000
AC operated			A600
DC operated			P300
General Use		V	600
AC AC		V	600
DC		A V	250
DC		V A	1
Short Circuit Current Rating		A	,
Basic Rating		500N	
SCCR		kA	30
max. Fuse		A	2000
max. CB		A	1200
480 V High Fault			
SCCR (fuse)		kA	85
SLLB (TUSE)			00

max. Fuse	А	2000
SCCR (CB)	kA	85
max. CB	А	1200
600 V High Fault		
SCCR (fuse)	kA	85
max. Fuse	А	2000
SCCR (CB)	kA	85
max. CB	А	1200
Special Purpose Ratings		
Definite Purpose Ratings (100,000 cycles acc. to UL 1995)		
LRA 480V 60Hz 3phase	А	4020
FLA 480V 60Hz 3phase	А	670
LRA 600V 60Hz 3phase	А	4020
FLA 600V 60Hz 3phase	А	670

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	580
Heat dissipation per pole, current-dependent	P _{vid}	W	10.67
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	6.5
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-40
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 switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)

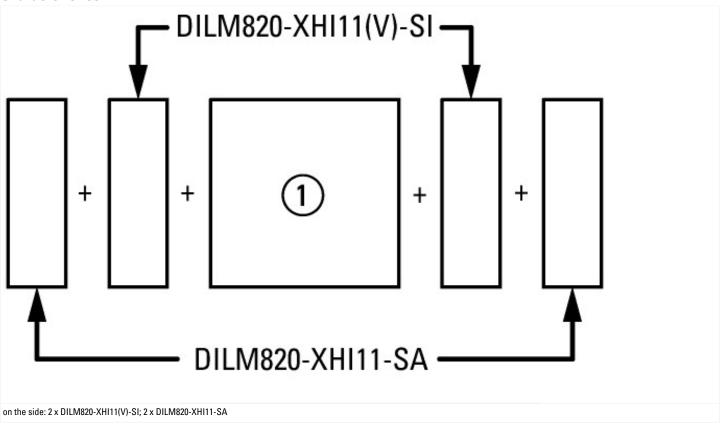
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])

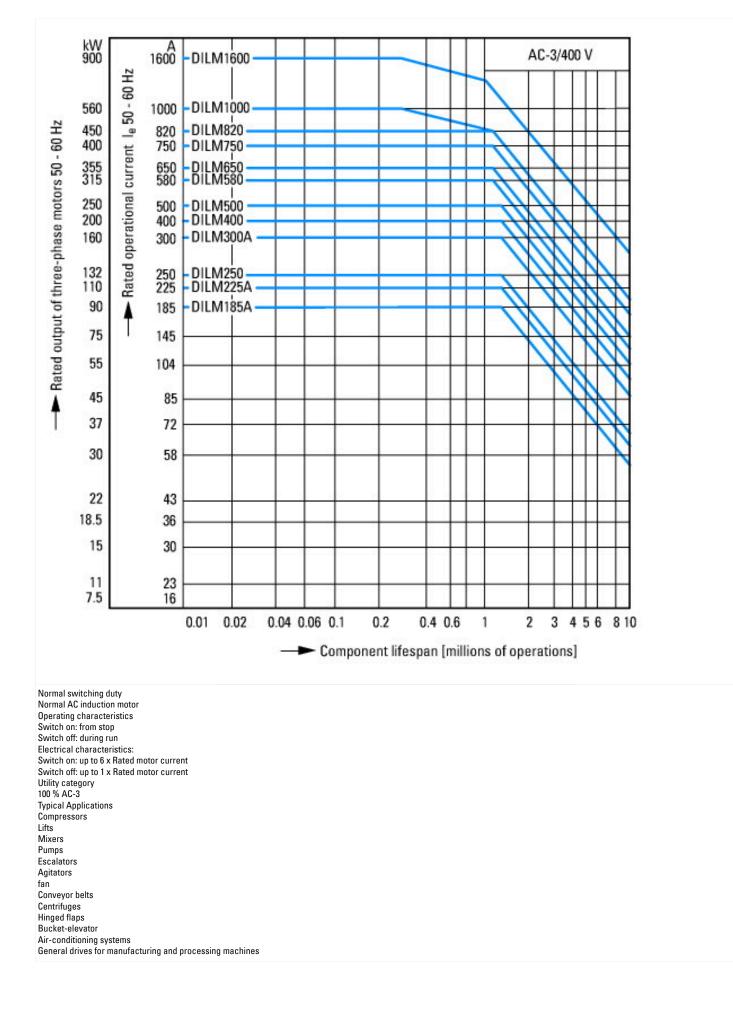
Rated control supply voltage Us at AC 50HZ	V	110 - 250
Rated control supply voltage Us at AC 60HZ	V	110 - 250
Rated control supply voltage Us at DC	V	110 - 250
Voltage type for actuating		AC/DC
Rated operation current le at AC-1, 400 V	А	980
Rated operation current le at AC-3, 400 V	А	580
Rated operation power at AC-3, 400 V	kW	315
Rated operation current le at AC-4, 400 V	А	456
Rated operation power at AC-4, 400 V	kW	250
Rated operation power NEMA	kW	298
Modular version		No
Number of auxiliary contacts as normally open contact		2
Number of auxiliary contacts as normally closed contact		2
Type of electrical connection of main circuit		Rail connection
Number of normally closed contacts as main contact		0
Number of main contacts as normally open contact		3

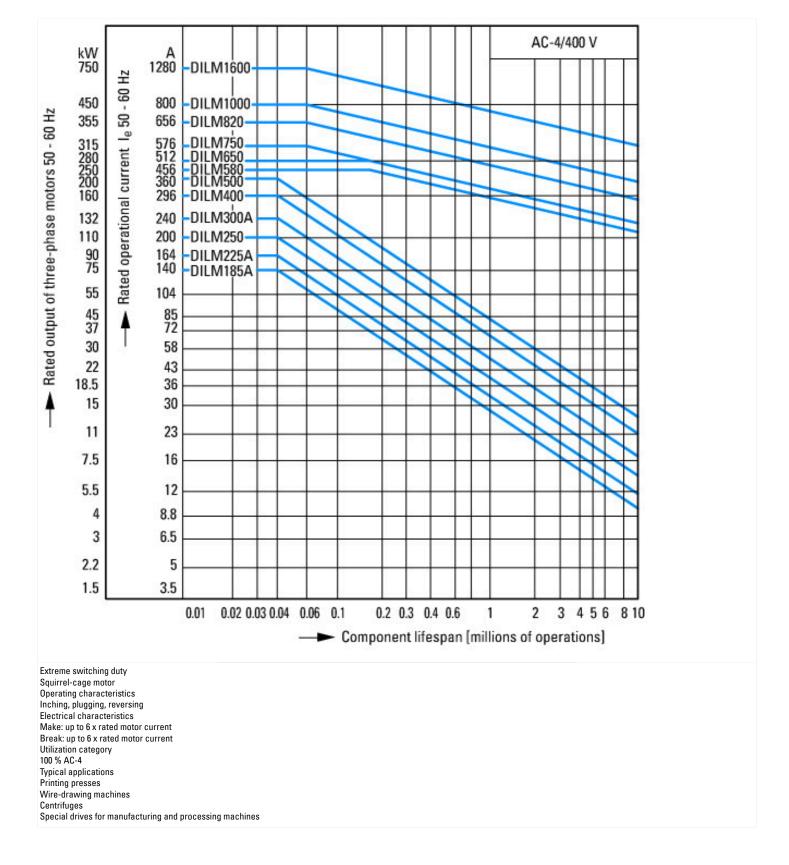
Approvals

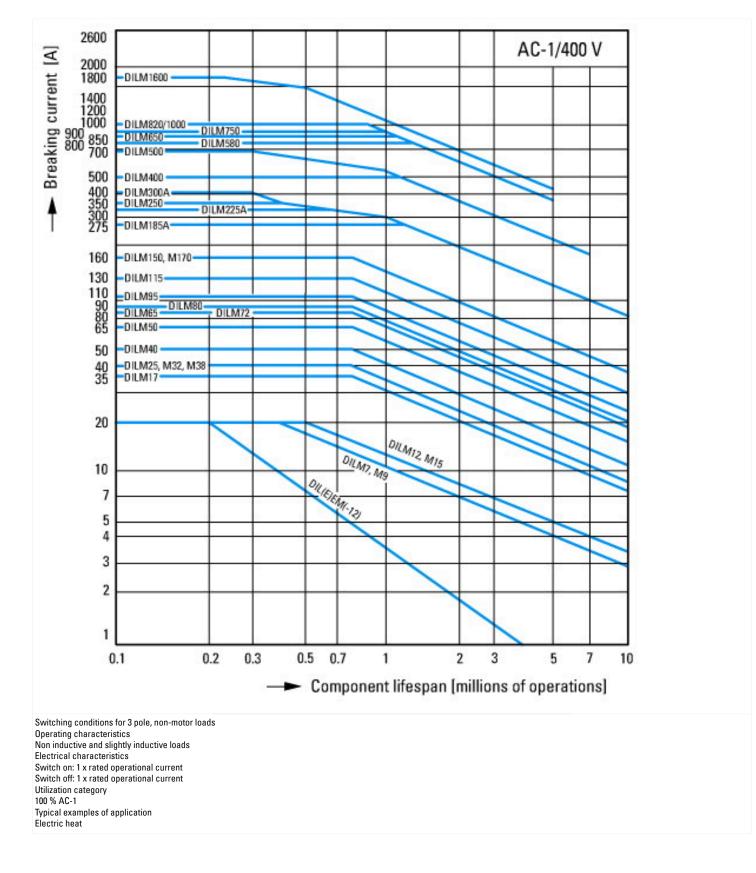
Product Standards	IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking
UL File No.	E29096
UL Category Control No.	NLDX
CSA File No.	012528
CSA Class No.	3211-04
North America Certification	UL listed, CSA certified
Specially designed for North America	No

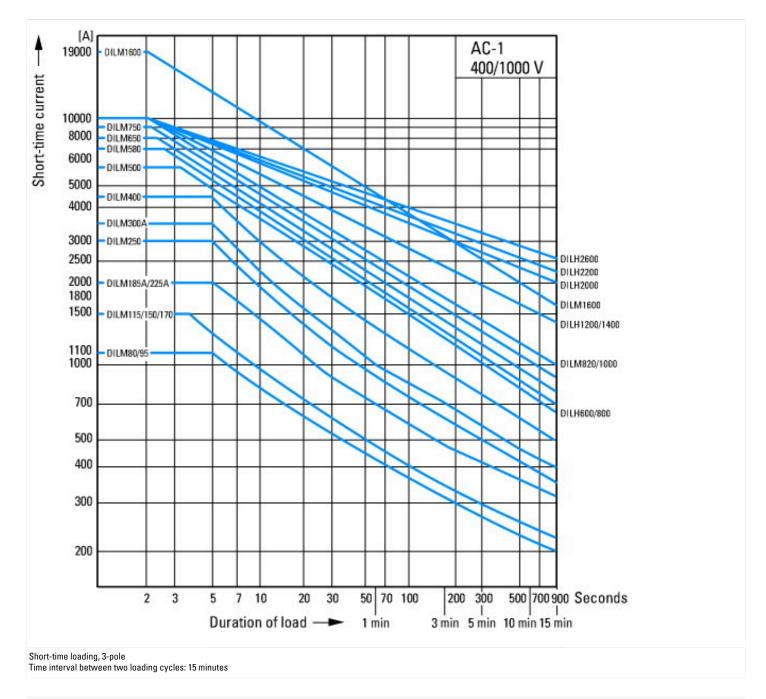
Characteristics











Dimensions

