Contactor, 380 V 400 V 355 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. DILM650/22(RA250)

Catalog No. 208219

Alternate Catalog XTCE650N22A

No.

EL-Nummer 4134088

(Norway)

Delivery program

Delivery 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	Α	650
AC-1			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	Α	1041
Conventional free air thermal current, 1 pole			
open	I _{th}	Α	2125
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	P	kW	205
380 V 400 V	P	kW	355
660 V 690 V	P	kW	630
1000 V	P	kW	600
AC-4			
220 V 230 V	P	kW	161
380 V 400 V	P	kW	280
660 V 690 V	P	kW	494
1000 V	P	kW	509
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/0 = 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
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 Appendi F (not N/C late open)
Instructions			integrated suppressor circuit in actuating electronics 660 V, 690 V or 1000 V: not directly reversing

Technical data

General

Standards	IEC/EN 60947, VDE 0660, UL, CSA
Lifespan, mechanical	

AC operated	Operations	x 10 ⁶	5
DC operated	Operations	x 10 ⁶	5
Operating frequency, mechanical			
AC operated	Operations/h		1000
DC operated	Operations/h		1000
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-40 - +60
Enclosed		°C	- 40 - + 40
Storage		°C	- 40 - + 80
Mechanical shock resistance (IEC/EN 60068-2-27)			
Half-sinusoidal shock, 10 ms			
Main contacts			
N/O contact		g	10
Auxiliary contacts			
N/O contact		g	10
N/C contact		g	8
Degree of Protection			IP00
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof with terminal shroud or terminal block
Altitude		m	Max. 2000
Weight			
AC operated		kg	16.21
DC operated		kg	16.21
Weight		kg	16.21
Terminal capacity main cable			
Flexible with cable lug		mm ²	50 - 240
Stranded with cable lug		mm^2	70 - 240
Solid or stranded		AWG	2/0 - 500 MCM
Flat conductor	Lamellenzahl x Breite x Dicke	mm	Fixing with flat cable terminal or cable terminal blocks See terminal capacity for cable terminal blocks
Busbar	Width	mm	50
Main cable connection screw/bolt			M10
Tightening torque		Nm	24
Terminal capacity control circuit cables			
Solid		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
Flexible with ferrule		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
Solid or stranded		AWG	18 - 14
Control circuit cable connection screw/bolt			M3.5
Tightening torque		Nm	1.2
Tool			
Main cable			
Width across flats		mm	16
Control circuit cables			
Pozidriv screwdriver		Size	2
Main conducting paths			
Rated impulse withstand voltage	U _{imp}	V AC	8000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	V AC	1000
Rated operational voltage	U _e	V AC	1000
Cofe indiction to FN C1140			
Safe isolation to EN 61140			
between coil and contacts		V AC	1000
		V AC	1000

Breaking capacity 220 V 230 V			
		Α	6500
380 V 400 V		A	6500
500 V 400 V		A	6500
660 V 690 V		A	6500
1000 V		A	4350
		А	4530
Component lifespan			ACL Con Naminaging should be interested as a survey
			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	Α	630
1000 V	gG/gL 1000 V	Α	500
Type "1" coordination			
400 V	gG/gL 500 V	Α	1000
690 V	gG/gL 690 V	Α	1000
1000 V	gG/gL 1000 V	Α	630
AC			
AC-1			
Rated operational current			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	Α	1041
at 50 °C	$I_{th} = I_e$	Α	931
at 55 °C	$I_{th} = I_e$	Α	888
at 60 °C	I _{th} =I _e	Α	850
Conventional free air thermal current, 1 pole			
Note			at maximum permissible ambient air temperature
open	I _{th}	Α	2125
AC-3			
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
Notes			At maximum permissible ambient temperature (open.)
220 V 230 V	l _e	Α	650
240 V	I _e	Α	650
380 V 400 V		A	650
	l _e		
415 V	l _e	Α	650
440V	l _e	Α	650
500 V	l _e	Α	650
660 V 690 V	I _e	Α	650
1000 V	le	Α	435
Motor rating	Р	kWh	
220 V 230 V	P	kW	205
240V	Р	kW	225
380 V 400 V	P	kW	355
415 V	P	kW	390
440 V	P	kW	420
500 V	P	kW	470
660 V 690 V	Р	kW	630
1000 V	Р	kW	600
AC-4			

Part				
200 V	Open, 3-pole: 50 – 60 Hz			
1		l _e	Α	
	240 V	l _e	Α	512
Heal V	380 V 400 V	l _e	Α	512
500 \	415 V	l _e	Α	512
GROV NEOV	440 V	l _e	Α	512
Motor cataling	500 V	l _e	Α	512
Metor rating	660 V 690 V	l _e	Α	512
P	1000 V	I _e	Α	348
P	Motor rating	Р	kWh	
15 15 17 18 18 18 18 18 18 18	220 V 230 V	Р	kW	161
145	240 V	Р	kW	176
440 V 910 N 200	380 V 400 V	Р	kW	280
SOU V P	415 V	Р	kW	307
Sist V 2010 V	440 V	P	kW	326
1000 V P NW 509	500 V	Р	kW	370
Condensor operation Individual compensation, rated operational current 1, of three phase capacitors Copen Up to 255 V SSO V Component 1 (February 1	660 V 690 V	P	kW	494
Individual compensation, rated operational current L _g of three-phase capacitors Operations A		P	kW	509
Open Section Secti	•			
up to 525 V 869 V A 255 Max. innush current peak				
Max. intrash current peak				
Max. inrush current peak Value 30 Component lifespen Operations x 10 ⁶ 0.1 Max. operating frequency Operations y 0.0 Current heat loss Jobie, at I ₁₆ (60°) N 9 1 Current heat loss at I ₁₆ to AC-3460 V N 1 1 Impedance per pole N 1 1 Magnett systems V 1 1 1 Votage tolerance Pick-up 0 202 V 40-60 Hz 1 Votage tolerance Pick-up 0 1 10 × 250 V 40-60 Hz 1 AC operated Pick-up 0 20 × V 5 mar · 115 x V 5 max 1 1 AC operated Pick-up 0 2 x V 5 mar · 15 x V 5 max 1 1 2 x V 5 mar · 15 x V 5 max 1 1 2 x V 5 mar · 15 x V 5 max 1 1 2 x V 5 mar · 15 x V 5 max 1 1 2 x V 5 mar · 15 x V 5 max 2 x V 5 mar · 15 x V 5 max 2 x V 5 mar · 15 x V 5 max 2 x V 5 mar · 15 x V 5 max 2 x V 5 mar · 15 x V 5 max				
Component Ifrespan Operations and prequency Operations (page) 0.1 Current Next Ioss Votage interruptions 0.9½% 200 Current Next Ioss Votage interruptions 0.9½% 200 Current Next Ioss Votage Interruptions 0.9½% 41 Current Next Ioss at 1 to AC-3/400 V 0.00 0.000 41 Impedance per pole 0.00 0.000 0.000 0.000 Magnetic systems Votage tolerance US Votage tolerance Pick-up US Votage Interruption of the Coll in a cold state and 10.0 x US Pick-up Or Ox US min - 1.15 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max 0.00 x US max - 1.5 x US max <td< td=""><td></td><td></td><td></td><td></td></td<>				
Max. operating frequency Opsit 200 Current heat loss 3 polo, at, le, (60°) W 69 Current heat loss at l _a to AC-3/400 V M 41 41 Impodance peo pole m 0.032 2 Magnet systems Voltage tolerance Pick-up 110 -250 V 49-60 Hz 110 -250 V 49-60 Hz AC operated Pick-up 0.7 x Ug min -1.15 x Ug max 1.15 x Ug max AC operated Pick-up 0.7 x Ug min -1.15 x Ug max 0.2 x Ug max - 0.8 x Ug min AC operated Drop-out 0.2 x Ug max - 0.8 x Ug min 0.2 x Ug max - 0.8 x Ug min BO Coperated Drop-out 0.2 x Ug max - 0.8 x Ug min 0.0 x Ug max - 0.8 x Ug min BO Coperated Prop-out 0.0 x Ug max - 0.8 x Ug min 0.0 x Ug max - 0.8 x Ug min BO Coperated Prop-out 0.0 x Ug max - 0.8 x Ug min 0.0 x Ug max - 0.8 x Ug min Pull-in power Pick-up VA 800 Pull-in power Pick-up VA 800 Sealing power Sealing VI 1.4				
Current heat loss 3 pole, at la, 60°) W 98 Current heat loss at la to AC-3400 V W 41 Impedance per pole m 0.032 Magnet systems Voltage tolerance US 110 - 250 V 40-80 Hz 110 - 250 V 40-80 Hz AC operated Pick-up 0.7 x U S min - 1.15 x U S max AC operated Pick-up 10 0.7 x U S min - 1.15 x U S max AC operated Prop-out 10 0.7 x U S min - 1.15 x U S max AC operated Prop-out 0.2 x U S max - 0.8 x U S min DC operated Prop-out 0.2 x U S max - 0.8 x U S min Note on sumption of the coil in a cold state and 1.0 x U S Control transformer with u _k ≤ 7% Pull-in power Pick-up VA 800 Pull-in power Pick-up VA 800 Pull-in power Sealing VA 26.5 Sealing power Sealing VA 26.5 Sealing power Sealing VI 11.4 Closing delay m m <	Component lifespan	Operations	x 10 ⁶	0.1
S pole, at I ₁₆ (60°) W 69 Current heat loss at I ₆ to AC-3400 V M 41 Impedance per pole m2 0.032 Magnet systems V 10 - 250 V 40-50 Hz US (VStage tolerance) PICk-up 0.7 x U s min - 1.15 x U s max 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 Prop-out 2 0.2 x U S max - 0.6 x U S min DC operated Prop-out 2 0.2 x U S max - 0.6 x U S min Note on power consumption of the coil in a cold state and 1.0 x U S V 2 0.2 x U S max - 0.6 x U S min Pull-in power Pick-up VA 800 Pull-in power Pick-up VA 800 Sealing power Sealing VA 20 Sealing power Sealing V 100 Changever time at 100 % US (recommended value) M ND 100 Main contacts M ND 100 Closing delay M ND 100			Ops/h	200
Current heat loss at I _a to AC-3/400 V W 41 Impedance per pole m0 0.032 Magnet systems Voltage tolerance III0 - 250 V 40 60 Hz 110 - 350 V DC AC operated Pick-up 0 7 × U s min - 1.15 × U s max DC operated Pick-up 0 7 × U s min - 1.15 × U s max AC operated Drop-out 0 2x V s max - 0.6 x V s min DC operated Drop-out 0 2x V s max - 0.6 x V s min Power consumption of the coil in a cold state and 1.0 x Us Control transformer with u _x ≤ 7% Note on power consumption Pick-up VA 800 Pull-in power Pick-up W 70 Sealing power Sealing VA 26.5 Changeover time at 100 % Us (recommended value) Main contacts M 70 Opening delay M 70 Opening delay M 70 <t< td=""><td></td><td></td><td>14/</td><td>co.</td></t<>			14/	co.
Impedance per pole m0 0.032 Magnet systems Voltage tolerance Interest of the processing of the proce				
Magnet systems Voltage tolerance US 110 - 250 V 40-60 Hz 110 - 350 V DC AC operated Pick-up 07 x U _{S min} - 1.15 x U _{S max} DC operated Pick-up 07 x U _{S min} - 1.15 x U _{S max} AC operated Drop-out 02 x U _{S max} - 0.6 x U _{S min} DC operated Drop-out 02 x U _{S max} - 0.6 x U _{S min} Power consumption of the coil in a cold state and 1.0 x U _S Control transformer with u _k ≤ 7% Note on power consumption Pick-up VA 800 Pull-in power Pick-up VA 900 Sealing power Sealing VA 2.55 Sealing power Sealing VA 2.55 Sealing power time at 100 % U _S (recommended value) VB PICK-up VB<				
Voltage tolarance US 110 - 250 V 40-80 Hz 110 - 350 V DC AC operated Pick-up 0.7 v U _{Smin} - 1.15 v U _{Smax} DC operated Pick-up 0.7 v U _{Smin} - 1.15 v U _{Smax} AC operated Drop-out 0.2 v U _{Smax} - 0.6 v U _{Smin} DC operated Drop-out 0.2 v U _{Smax} - 0.6 v U _{Smin} Power consumption of the coil in a cold state and 1.0 v U _S 0.2 v U _{Smax} - 0.6 v U _{Smin} Note on power consumption Pick-up VA 800 Pull-in power Pick-up VA 800 Pull-in power Pick-up VA 2.5 Sealing power Sealing VA 2.5 Sealing power Sealing VA 2.5 Changeover time at 100 % U _S (recommended value) MS 1.0 Main contacts MS 70 Closing delay MS 70 Opening delay MS 110 Behaviour in marginal and transitional conditions MS 70 Sealing MS 70 Voltage interruptions MS 70			mΩ	0.032
National Power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in a cold state and 1.0 x Us Note on power consumption of the coil in				
110 - 350 V DC AC operated				110 - 250 V 40-60 Hz
DC operated AC operated Drop-out DC outrol transformer with u _k ≤ 7% Control transformer with u _k ≤ 7% Control transformer with u _k ≤ 7% DC operated				110 - 350 V DC
AC operated Drop-out Drop-ou	AC operated	Pick-up		0.7 x U _{S min} - 1.15 x U _{S max}
DC operated Power consumption of the coil in a cold state and 1.0 x U _S Note on power consumption Pull-in power Pull-in power Pick-up Pick-up Pick-up VA 800 Pull-in power Pick-up VA 800 Sealing power Sealing vA 26.5 Sealing power Sealing wW 11.4 Duty factor Changeover time at 100 % U _S (recommended value) Main contacts Closing delay Opening delay Behaviour in marginal and transitional conditions Sealing Voltage interruptions (0 0.2 x U _{C min}) ≤ 10 ms Drop-out Control transformer with u _k ≤ 7% Control transformer with u _k ≤ 7% Ro00 Foot control transformer with u _k ≤ 7% Foot control transformer with u	DC operated	Pick-up		0.7 x U _{S min} - 1.15 x U _{S max}
Power consumption of the coil in a cold state and 1.0 x U _S Control transformer with u _k ≤ 7% Note on power consumption 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 W 100 Main contacts Ms 70 70 Closing delay ms 70 70 Behaviour in marginal and transitional conditions ms 110 Sealing Voltage interruptions Time is bridged successfully	AC operated	Drop-out		$0.2 \times U_{S \text{ max}} - 0.6 \times U_{S \text{ min}}$
Note on power consumption Pull-in power Pick-up VA 800 Pull-in power Pick-up VA 800 Sealing power Sealing power Sealing vA 26.5 Sealing power Sealing bower Sealing VB 11.4 Duty factor Changeover time at 100 % U _S (recommended value) Main contacts Closing delay Topening delay Sealing Voltage interruptions Voltage interruptions Time is bridged successfully	DC operated	Drop-out		0.2 x U _{S max} - 0.6 x U _{S min}
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 Moreover time at 100 % U _S (recommended value) Moreover time at 100 % U _S (recommended value) Moreover time at 100 % U _S (recommended value) ms 70 Closing delay ms 110 110 Behaviour in marginal and transitional conditions Sealing Voltage interruptions Time is bridged successfully	Power consumption of the coil in a cold state and 1.0 x $\rm U_{\rm S}$			
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) ms 70 Main contacts ms 70 Opening delay ms 110 Behaviour in marginal and transitional conditions ms 110 Sealing Voltage interruptions Time is bridged successfully	Note on power consumption			Control transformer with $u_k \le 7\%$
Sealing powerSealingVA26.5Sealing powerSealingW11.4Duty factor% DF100Changeover time at 100 % U _S (recommended value)WTMain contactsms70Closing delayms110Behaviour in marginal and transitional conditionsMs110SealingVoltage interruptionsTime is bridged successfully $(0 \dots 0.2 \times U_{c min}) \le 10 \text{ ms}$ Time is bridged successfully	Pull-in power	Pick-up	VA	800
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Pull-in power	Pick-up	W	700
Duty factor	Sealing power	Sealing	VA	26.5
Changeover time at 100 % U_S (recommended value) Main contacts Closing delay Ms 70 Opening delay Behaviour in marginal and transitional conditions Sealing Voltage interruptions $(0 \dots 0.2 \times U_{c min}) \le 10 \text{ ms}$ Time is bridged successfully	Sealing power	Sealing	W	11.4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Duty factor		% DF	100
Closing delay ms 70 Opening delay ms 110 Behaviour in marginal and transitional conditions Sealing Voltage interruptions $(0 \dots 0.2 \times U_{c min}) \le 10 \text{ ms}$ Time is bridged successfully	Changeover time at 100 % U_{S} (recommended value)			
Opening delay ms 110 Behaviour in marginal and transitional conditions Sealing Voltage interruptions $(0 \dots 0.2 \times U_{c \text{ min}}) \le 10 \text{ ms}$ 110 Time is bridged successfully	Main contacts			
Behaviour in marginal and transitional conditions Sealing Voltage interruptions $(0 \dots 0.2 \times U_{c \text{ min}}) \leq 10 \text{ ms}$ Time is bridged successfully	Closing delay		ms	70
Sealing $\label{eq:Voltage} \mbox{Voltage interruptions} $$ (0 \dots 0.2 \times U_{\text{C min}}) \leq 10 \mbox{ ms} $$ \mbox{Time is bridged successfully} $$$	Opening delay		ms	110
Voltage interruptions $ (0 \dots 0.2 \times U_{c min}) \leq 10 ms $ Time is bridged successfully	Behaviour in marginal and transitional conditions			
$(0 \dots 0.2 \times U_{\text{c min}}) \le 10 \text{ ms}$ Time is bridged successfully	Sealing			
	Voltage interruptions			
$(0 \dots 0.2 \times U_{c min}) > 10 ms$ Drop-out of the contactor	$(0 0.2 \times U_{c min}) \le 10 \text{ ms}$			Time is bridged successfully
	$(0 \dots 0.2 \times U_{c min}) > 10 \text{ ms}$			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		
(1.15 1.3 x U _{c max})		Contactor remains switched on
Pick-up phase		
(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)	$m\Omega$	≦ 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
200 V 208 V	НР	200
230 V 240 V	НР	250
460 V 480 V	HP	500
575 V 600 V	HP	600
General use	Α	1041
Auxiliary contacts		
Pilot Duty		
AC operated		A600
DC operated		P300
General Use		
AC	V	600
AC	Α	15
DC	V	250
DC	Α	1
Short Circuit Current Rating	SCCR	
Basic Rating		
SCCR	kA	30
max. Fuse	Α	2000
max. CB	Α	1200
480 V High Fault		
SCCR (fuse)	kA	85
max. Fuse	Α	2000
SCCR (CB)	kA	85
max. CB	А	1200
600 V High Fault		
SCCR (fuse)	kA	85
max. Fuse	Α	2000
SCCR (CB)	kA	85
max. CB	Α	1200
Special Purpose Ratings		
Definite Purpose Ratings (100,000 cycles acc. to UL 1995)		
LRA 480V 60Hz 3phase	Α	4350

FLA 480V 60Hz 3phase	А	725
LRA 600V 60Hz 3phase	А	4350
FLA 600V 60Hz 3phase	А	725

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	650
Heat dissipation per pole, current-dependent	P _{vid}	W	13.67
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 switch gear must be observed. $\label{eq:constraint}$
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 8.0

1001111041 4444 211111 010				
Low-voltage industrial components (EG000017) / Power contactor, AC switching (Ed	C000066)			
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		
Rated operation current le at AC-1, 400 V	А	1041		
Rated operation current le at AC-3, 400 V	А	650		
Rated operation power at AC-3, 400 V	kW	355		
Rated operation current le at AC-4, 400 V	А	512		
Rated operation power at AC-4, 400 V	kW	280		
Rated operation power NEMA	kW	373		
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 normally open contacts as main contact	3