Contactor, 3 pole, 380 V 400 V 15 kW, 1 N/O, 110 V 50 Hz, 120 V 60 Hz, AC operation, Screw terminals



Part no. DILM32-10(110V50HZ,120V60HZ)

Catalog No. 277257 Alternate Catalog XTCE032C10A

No.

EL-Nummer 4130426

(Norway)

Delivery program

Delivery program			
Product range			Contactors
Application			Contactors for Motors
Subrange			Contactors up to 170 A, 3 pole
Utilization category			AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3/AC-3e: Normal AC induction motors: Starting, switching off while running AC-4: Normal AC induction motors: starting, plugging, reversing, inching
Notes			Also suitable for motors with efficiency class IE3.
Connection technique			Screw terminals
Number of poles			3 pole
Rated operational current			
AC-3			
Notes			At maximum permissible ambient temperature (open.) Also tested according to AC-3e.
380 V 400 V	l _e	Α	32
AC-1			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	Α	45
enclosed	I _{th}	Α	36
Conventional free air thermal current, 1 pole			
open	I _{th}	Α	100
enclosed	I _{th}	Α	90
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	Р	kW	10
380 V 400 V	Р	kW	15
660 V 690 V	P	kW	17
AC-4			
220 V 230 V	Р	kW	4
380 V 400 V	P	kW	7
660 V 690 V	Р	kW	10
Contacts			
N/O = Normally open			1 N/O
Can be combined with auxiliary contact			DILA-XHI(V)(-PI) DILM32-XHI(-PI) DILM32-XHI11-S
Actuating voltage			110 V 50 Hz, 120 V 60 Hz
Voltage AC/DC			AC operation
Connection to SmartWire-DT			no
Instructions			Contacts to EN 50 012.
Frame size			2

Technical data

General

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

AC operated	Operations	x 10 ⁶	10
	Operations	X IU	
Operating frequency, mechanical	0 "		5000
AC operated	Operations/h		5000
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +60
Enclosed		°C	- 25 - 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	7
N/C contact		g	5
Mechanical shock resistance (IEC/EN 60068-2-27) when tabletop-mounted			
Half-sinusoidal shock, 10 ms			
Main contacts			
N/O contact		g	6.9
Auxiliary contacts			
N/O contact		g	5.3
N/C contact		g	3.5
Degree of Protection			IP00
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Altitude		m	Max. 2000
Weight			
AC operated		kg	0.428
Screw connector terminals			
Terminal capacity main cable			
Solid		mm ²	1 x (0.75 - 16) 2 x (0.75 - 10)
Flexible with ferrule		mm ²	1 x (0.75 - 16)
			2 x (0.75 - 10)
Stranded		mm ²	1 x 16
Solid or stranded		AWG	single 18 - 6, double 18 - 8
Stripping length		mm	10
Terminal screw			M5
Tightening torque		Nm	3.2
Tool			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 x 5.5 1 x 6
Terminal capacity control circuit cables			
Solid		mm ²	1 x (0.75 - 4)
			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
Stripping length		mm	10
Terminal screw			M3.5
Tightening torque		Nm	1.2
Tool			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 x 5.5
			1x6
Main conducting paths			
Rated impulse withstand voltage	U _{imp}	V AC	8000

Rated impulse withstand voltage	U _{imp}	V AC	8000				
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Rated grantonial voltage U _e VAC 690 Sate isolation to EN 61140 VAC 400 between oil and contacts VAC 400 between oil and contacts VAC 400 Making capacity (a.f. to IEC/EN 60947) Up to 5890 V A 344 Breaking capacity (a.f. to IEC/EN 60947) A 320 220 Y 230 V A 320 380 Y 400 V A 320 550 V A 320 600 V A 320 800 V A 300 800 V A 300 800 V A 5 400 V gG 51 500 V A 800 V gG 51 500 V A 5 400 V gG 51 500 V A 5 800	
Sate isolation to EN 61140	
Solitation to INSTITUTO Evenue scal and contacts VAC 40 between the contacts VAC 40 Making capacity (n.f. to IEC/EN ROS47) VAC 40 Breaking capacity (n.f. to IEC/EN ROS47) A 324 Breaking capacity (n.f. to IEC/EN ROS47) A 320 220 V 200 V A 320 860 V A 320 660 V A 320 850 V A 320 660 V A 320 850 V A 320 850 V A 320 850 V A 320 800 V B 32 809 V B 32 809 V B 32 809 V B 32 809 V B 32 808 V B 32 808 V B 32 808 V B 32 808 V B 32 9 Contractional current	
between the contacts V AC 440	
Making capacity (p.f. to IEC/EN 60947) Up to 980 V A 384 Breaking capacity A 320 (math of the part of the pa	
Breaking capacity	
Breaking capacity 220 V 230 V A 330 0 380 V 400 V 4 A 320 500 V 680 V 850 V A 180 Short-circuit protection maximum fuse Type "2" coordination 680 V g6/g1.500 V A 83 680 V g6/g1.500 V A 35 Type "1" coordination U 125 400 V g6/g1.500 V A 125 690 V g6/g1.500 V A 63 AC AC Ac 3 A 125 G6/g1.500 V A 125 AC AC AC 1 B 4 4 A 2 4 4 A 3 4 4 A 3 4 4 A 4 4 A 3 4 4 A 3 <td< td=""><td></td></td<>	
Breaking capacity 220 V 230 V A 330 0 380 V 400 V 4 A 320 500 V 680 V 850 V A 180 Short-circuit protection maximum fuse Type "2" coordination 680 V g6/g1.500 V A 83 680 V g6/g1.500 V A 35 Type "1" coordination U 125 400 V g6/g1.500 V A 125 690 V g6/g1.500 V A 63 AC AC Ac 3 A 125 G6/g1.500 V A 125 AC AC AC 1 B 4 4 A 2 4 4 A 3 4 4 A 3 4 4 A 4 4 A 3 4 4 A 3 <td< td=""><td></td></td<>	
S80 V 400 V	
Soo V	
B60 V 690 V	
Short-circuit rating Short-circuit protection maximum fuse Short protection maxim	
Short-circuit protection maximum fuse Type "2" coordination 96/gL 500 V A 63	
Type "2" coordination 400 V	
400 V 96/9L 500 V A 53	
690 V Type "1" coordination	
Type "1" coordination	
## 400 V ## 125 ## 690 V ## 63 ## AC-1 Rated operational current Conventional free air thermal current, 3 pole, 50 - 60 Hz Open	
## AC-1 Rated operational current Conventional free air thermal current, 3 pole, 50 - 60 Hz Open	
AC-1 Rated operational current Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C at 50 °C at 50 °C at 50 °C at 60 °C	
AC-1 Rated operational current Proper (Conventional free air thermal current, 3 pole, 50 - 60 Hz) Proper (Conventional free air thermal current, 3 pole, 50 - 60 Hz) Ith = Ie (Conventional free air thermal current) A 45 at 40 °C Ith = Ie (Conventional free air thermal current) A 42 at 60 °C Ith = Ie (Conventional free air thermal current) A 40 Conventional free air thermal current, 1 pole (Conventional free air thermal current) Ith (Conventional free air thermal current) A 40 AC-3 Rated operational current (Open, 3-pole: 50 – 60 Hz At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
Rated operational current Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C Ith =Ie A 45 at 50 °C Ith =Ie A 42 at 60 °C Ith =Ie A 40 conventional free air thermal current, 1 pole open Ith A 100 enclosed Ith A 90 AC-3 Rated operational current Open, 3-pole: 50 - 60 Hz Notes	
Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C lth = le at 50 °C lth = le at 60 °C a	
Open Ith = Ie A 45 at 50 °C Ith = Ie A 43 at 55 °C Ith = Ie A 42 at 60 °C Ith = Ie A 40 enclosed Ith A 36 Conventional free air thermal current, 1 pole Ith A 100 enclosed Ith A 90 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
at 40 °C at 50 °C lth = le A 43 44 43 44 45 A 45 A 45 A A A A A A A A A	
at 50 °C	
at 55 °C Ith = Ie A 42 at 60 °C Ith = Ie A 40 enclosed Ith A 36 Conventional free air thermal current, 1 pole open open Ith A 100 enclosed Ith A 90 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz Notes At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
at 60 °C	
enclosed Ith A 36 Conventional free air thermal current, 1 pole open Ith A 100 enclosed Ith A 90 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz Notes At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
Conventional free air thermal current, 1 pole open lth A 100 enclosed Ith A 90 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz Notes At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
open I _{th} A 100 enclosed I _{th} A 90 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz Notes At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
enclosed Ith A 90 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz Notes At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
enclosed Ith A 90 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz Notes At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz Notes At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
Rated operational current Open, 3-pole: 50 – 60 Hz Notes At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
Open, 3-pole: 50 – 60 Hz Notes At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
Notes At maximum permissible ambient temperature (open.) Also tested according to AC-3e.	
220 V 220 V	
220 V 230 V I _e A 32	
240 V I _e A 32	
380 V 400 V I _e A 32	
415 V	
500 V I _e A 32	
660 V 690 V I _e A 18	
Motor rating P kWh	
220 V 230 V P kW 10	
240V P kW 11	
380 V 400 V P kW 15	
415 V P kW 19	
440 V P kW 20	
500 V P kW 23	
660 V 690 V P kW 17	
AC-4	

0 0 1 50 0011			
Open, 3-pole: 50 – 60 Hz			
220 V 230 V	l _e	Α	15
240 V	l _e	Α	15
380 V 400 V	l _e	Α	15
415 V	l _e	Α	15
440 V	le	Α	15
500 V	I _e	Α	15
660 V 690 V	I _e	Α	12
Motor rating	P	kWh	
220 V 230 V	P	kW	4
240 V	P	kW	4.5
380 V 400 V	P	kW	7
415 V	P	kW	7.5
440 V	P	kW	8
500 V	P	kW	9
660 V 690 V	P	kW	10
DC Rated operational current, open			
DC-1			
60 V		A	40
	l _e		
110 V	l _e	Α	40
220 V	l _e	Α	40
Current heat loss		147	40.0
3 pole, at I _{th} (60°)		W	10.3
Current heat loss at I _e to AC-3/400 V		W	6.6
Impedance per pole		mΩ	2.7
Magnet systems			
Voltage tolerance			
AC operated	Pick-up	x U _c	0.8 - 1.1
Drop-out voltage AC operated	Drop-out	x U _c	0.3 - 0.6
Power consumption of the coil in a cold state and 1.0 x U _S			
. 5.75. Someampaon of the son in a cold state and 1.0 x 05			
50 Hz	Pick-up	VA	52
	Pick-up Sealing	VA VA	52 7.1
50 Hz			
50 Hz 50 Hz	Sealing	VA	7.1
50 Hz 50 Hz 50 Hz	Sealing Sealing	VA W	7.1 2.1
50 Hz 50 Hz 50 Hz 60 Hz	Sealing Sealing Pick-up	VA W VA	7.1 2.1 67
50 Hz 50 Hz 50 Hz 60 Hz	Sealing Sealing Pick-up Sealing	VA W VA VA	7.1 2.1 67 8.7
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz	Sealing Sealing Pick-up Sealing	VA W VA VA W	7.1 2.1 67 8.7 2.1
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor	Sealing Sealing Pick-up Sealing	VA W VA VA W	7.1 2.1 67 8.7 2.1
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value)	Sealing Sealing Pick-up Sealing	VA W VA VA W	7.1 2.1 67 8.7 2.1
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value) Main contacts	Sealing Sealing Pick-up Sealing	VA W VA VA W	7.1 2.1 67 8.7 2.1
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value) Main contacts AC operated	Sealing Sealing Pick-up Sealing	VA W VA VA W % DF	7.1 2.1 67 8.7 2.1
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value) Main contacts AC operated Closing delay	Sealing Sealing Pick-up Sealing	VA W VA VA W % DF	7.1 2.1 67 8.7 2.1 100
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value) Main contacts AC operated Closing delay Opening delay	Sealing Sealing Pick-up Sealing	VA W VA W % DF	7.1 2.1 67 8.7 2.1 100 16 - 22 8 - 14
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value) Main contacts AC operated Closing delay Opening delay Arcing time	Sealing Sealing Pick-up Sealing	VA W VA W % DF	7.1 2.1 67 8.7 2.1 100 16 - 22 8 - 14
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value) Main contacts AC operated Closing delay Opening delay Arcing time Electromagnetic compatibility (EMC) Emitted interference Interference immunity	Sealing Sealing Pick-up Sealing	VA W VA W % DF	7.1 2.1 67 8.7 2.1 100 16 - 22 8 - 14 10
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value) Main contacts AC operated Closing delay Opening delay Arcing time Electromagnetic compatibility (EMC) Emitted interference Interference immunity Rating data for approved types	Sealing Sealing Pick-up Sealing	VA W VA W % DF	7.1 2.1 67 8.7 2.1 100 16 - 22 8 - 14 10 to EN 60947-1
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value) Main contacts AC operated Closing delay Opening delay Arcing time Electromagnetic compatibility (EMC) Emitted interference Interference immunity	Sealing Sealing Pick-up Sealing	VA W VA W % DF	7.1 2.1 67 8.7 2.1 100 16 - 22 8 - 14 10 to EN 60947-1
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % Us (recommended value) Main contacts AC operated Closing delay Opening delay Arcing time Electromagnetic compatibility (EMC) Emitted interference Interference immunity Rating data for approved types	Sealing Sealing Pick-up Sealing	VA W VA W % DF	7.1 2.1 67 8.7 2.1 100 16 - 22 8 - 14 10 to EN 60947-1
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value) Main contacts AC operated Closing delay Opening delay Arcing time Electromagnetic compatibility (EMC) Emitted interference Interference immunity Rating data for approved types Switching capacity	Sealing Sealing Pick-up Sealing	VA W VA W % DF	7.1 2.1 67 8.7 2.1 100 16 - 22 8 - 14 10 to EN 60947-1
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value) Main contacts AC operated Closing delay Opening delay Arcing time Electromagnetic compatibility (EMC) Emitted interference Interference immunity Rating data for approved types Switching capacity Maximum motor rating	Sealing Sealing Pick-up Sealing	VA W VA W % DF	7.1 2.1 67 8.7 2.1 100 16 - 22 8 - 14 10 to EN 60947-1
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % U _S (recommended value) Main contacts AC operated Closing delay Opening delay Arcing time Electromagnetic compatibility (EMC) Emitted interference Interference immunity Rating data for approved types Switching capacity Maximum motor rating Three-phase 200 V	Sealing Sealing Pick-up Sealing	VA W VA W % DF	7.1 2.1 67 8.7 2.1 100 16 - 22 8 - 14 10 to EN 60947-1 to EN 60947-1
50 Hz 50 Hz 50 Hz 60 Hz 60 Hz 60 Hz Duty factor Changeover time at 100 % Us (recommended value) Main contacts AC operated Closing delay Opening delay Arcing time Electromagnetic compatibility (EMC) Emitted interference Interference immunity Rating data for approved types Switching capacity Maximum motor rating Three-phase 200 V 208 V 230 V	Sealing Sealing Pick-up Sealing	VA W VA W % DF	7.1 2.1 67 8.7 2.1 100 16 - 22 8 - 14 10 to EN 60947-1 to EN 60947-1

480 V		
575 V	НР	25
600 V		
Single-phase		
115 V 120 V	HP	2
230 V	НР	5
240 V		
General use	Α	40
Auxiliary contacts		
Pilot Duty		
AC operated		A600
DC operated		P300
General Use		
AC		600
AC		10
DC	V	250
DC	Α	1
Short Circuit Current Rating	SCCR	
Basic Rating		
SCCR	kA	5
max. Fuse	Α	125
max. CB	Α	125
480 V High Fault		
SCCR (fuse)		10/100
max. Fuse		125/70 Class J
SCCR (CB)		10/65
max. CB	Α	50/32
600 V High Fault		
SCCR (fuse)		10/100
max. Fuse		125/125 Class J
SCCR (CB)		10/22
max. CB	Α	50/32
Special Purpose Ratings		
Electrical Discharge Lamps (Ballast)		
480V 60Hz 3phase, 277V 60Hz 1phase		40
600V 60Hz 3phase, 347V 60Hz 1phase	Α	40
Incandescent Lamps (Tungsten)		10
480V 60Hz 3phase, 277V 60Hz 1phase	A	40
600V 60Hz 3phase, 347V 60Hz 1phase	Α	40
Resistance Air Heating		40
400\/ 60Hz 2nhoop 277\/ 60Hz 1nhoop	۸	
480V 60Hz 3phase, 277V 60Hz 1phase		
600V 60Hz 3phase, 347V 60Hz 1phase		40
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only)	А	40
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase	A	240
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase	A A A	40 240 40
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase LRA 600V 60Hz 3phase	A A A	40 240 40 180
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase LRA 600V 60Hz 3phase FLA 600V 60Hz 3phase	A A A	40 240 40
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase LRA 600V 60Hz 3phase FLA 600V 60Hz 3phase Definite Purpose Ratings (100,000 cycles acc. to UL 1995)	A A A A	40 240 40 180 30
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase LRA 600V 60Hz 3phase FLA 600V 60Hz 3phase Definite Purpose Ratings (100,000 cycles acc. to UL 1995) LRA 480V 60Hz 3phase	A A A A	40 240 40 180 30
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase LRA 600V 60Hz 3phase FLA 600V 60Hz 3phase Definite Purpose Ratings (100,000 cycles acc. to UL 1995) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase	A A A A	40 240 40 180 30
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase LRA 600V 60Hz 3phase FLA 600V 60Hz 3phase Definite Purpose Ratings (100,000 cycles acc. to UL 1995) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase FLA 480V 60Hz 3phase	A A A A	40 240 40 180 30 192
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase LRA 600V 60Hz 3phase FLA 600V 60Hz 3phase Definite Purpose Ratings (100,000 cycles acc. to UL 1995) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase Elevator Control 200V 60Hz 3phase	A A A A HP	40 240 40 180 30 192 32
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase LRA 600V 60Hz 3phase FLA 600V 60Hz 3phase Definite Purpose Ratings (100,000 cycles acc. to UL 1995) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase Elevator Control 200V 60Hz 3phase	A A A A HP A	40 240 40 180 30 192 32 7.5 25.3
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase LRA 600V 60Hz 3phase FLA 600V 60Hz 3phase Definite Purpose Ratings (100,000 cycles acc. to UL 1995) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase Elevator Control 200V 60Hz 3phase 200V 60Hz 3phase	A A A A HP A HP	40 240 40 180 30 192 32
600V 60Hz 3phase, 347V 60Hz 1phase Refrigeration Control (CSA only) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase LRA 600V 60Hz 3phase FLA 600V 60Hz 3phase Definite Purpose Ratings (100,000 cycles acc. to UL 1995) LRA 480V 60Hz 3phase FLA 480V 60Hz 3phase Elevator Control 200V 60Hz 3phase	A A A A HP A HP A	40 240 40 180 30 192 32 7.5

480V 60Hz 3phase	А	27
600V 60Hz 3phase	HP	20
600V 60Hz 3phase	А	22

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	32
Heat dissipation per pole, current-dependent	P _{vid}	W	2.2
Equipment heat dissipation, current-dependent	P _{vid}	W	6.6
Static heat dissipation, non-current-dependent	P _{vs}	W	2.1
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the 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

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 Rated control supply voltage Us at AC 60HZ Rated control supply voltage Us at DC V 0 - 0 Voltage type for actuating Rated operation current le at AC-1, 400 V Rated operation current le at AC-3, 400 V A 32	Toolilloar data ETIM 6.0	duta ETHI 0.0	
Rated control supply voltage Us at AC 50HZ Rated control supply voltage Us at AC 60HZ V 120 - 120 Rated control supply voltage Us at DC V 0 - 0 Voltage type for actuating AC Rated operation current le at AC-1, 400 V Rated operation current le at AC-3, 400 V A 32	$Low-voltage\ industrial\ components\ (EG000017)\ /\ Power\ contactor,\ AC\ switching\ (EG0000017)\ /\ Power\ contactor,\ AC\ switching\ (EG000017)\ /\ Power\ contactor,\ AC\ switching\ (EG0000017)\ /\ Power\ contactor$		
Rated control supply voltage Us at AC 60HZ Rated control supply voltage Us at DC V 0 - 0 Voltage type for actuating AC Rated operation current le at AC-1, 400 V Rated operation current le at AC-3, 400 V A 32	Electric engineering, automation, process control engineering / Low-voltage switc		
Rated control supply voltage Us at DC Voltage type for actuating Rated operation current le at AC-1, 400 V Rated operation current le at AC-3, 400 V A 32	Rated control supply voltage Us at AC 50HZ	pply voltage Us at AC 50HZ V 110 - 110	
Voltage type for actuating AC Rated operation current le at AC-1, 400 V A 45 Rated operation current le at AC-3, 400 V A 32	Rated control supply voltage Us at AC 60HZ	ipply voltage Us at AC 60HZ V 120 - 120	
Rated operation current le at AC-1, 400 V Rated operation current le at AC-3, 400 V A 32	Rated control supply voltage Us at DC	pply voltage Us at DC V 0 - 0	
Rated operation current le at AC-3, 400 V A 32	Voltage type for actuating	actuating	
	Rated operation current le at AC-1, 400 V	current le at AC-1, 400 V A 45	
	Rated operation current le at AC-3, 400 V	current le at AC-3, 400 V A 32	
Rated operation power at AC-3, 400 V kW 15	Rated operation power at AC-3, 400 V	power at AC-3, 400 V kW 15	
Rated operation current le at AC-4, 400 V A 15	Rated operation current le at AC-4, 400 V	current le at AC-4, 400 V A 15	
Rated operation power at AC-4, 400 V kW 7	Rated operation power at AC-4, 400 V	power at AC-4, 400 V kW 7	
Rated operation power NEMA kW 14.9	Rated operation power NEMA	power NEMA kW 14.9	
Modular version No	Modular version	No No	

Number of auxiliary contacts as normally open contact	1
Number of auxiliary contacts as normally closed contact	0
Type of electrical connection of main circuit	Screw connection
Number of normally closed contacts as main contact	0
Number of normally open contacts as main contact	3