

Datasheet: Contactors 3-pole, CUBICO High, 40kW, 100A



SCHRACK-INFO

- Contactor with 230VAC or 24VAC drive and integrated auxiliary contacts
- Optional auxiliary contact blocks available
- According IEC/EN 60947-3

Standard		IEC/EN 60947-4-1
Rated insulation voltage		690V AC
Rated frequency		50/60Hz
Rated impulse withstand voltage		8kV
Overvoltage category		Ш
Rated current AC1		125A
Rated current AC3	230V	100A
	400V	100A
	415V	100A
	690V	49A
Rated current AC4	230V	100A
	400V	100A
	415V	100A
	690V	49A

Technical datas



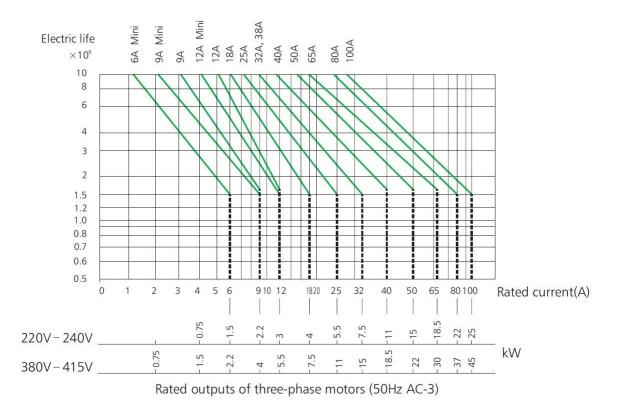
Rated making capacity		10 x l _e (AC3) / 12 x l _e (AC4)
Rated breaking capacity		8 x I _e (AC3) / 10 x I _e (AC4)
Short-time withstand current 10s		800A
Rated power AC3	230V	25kW
	400V	45kW
	415V	45kW
	690V	45kW
Operating frequency	AC3	1.200 operations/h
	AC4	120 operations/h
Electrical lifetime		1.200.000 operations
Mechanical lifetime		10.000.000 operations
Configuration of main contacts		
	3-pole	3NO
Configuration of auxiliary contacts		1NO and 1NC
Protection degree		IP20
Ambient air temperature		- 5C up to + 40°C
Storage temperature		- 25C up to + 55°C
Correction coefficient	40°C	1
	50°C	0,875
	60°C	0,75
	70°C	0,625
Altitude		2000m
Atmosphere conditions		50% humidity at +40°C
Installation position		plane and vertical +/- 22,5°
Coil voltage		230VAC or 24VAC
Coil acting range	attraction	85% - 110% Us
	release	AC: 20%-70% Us
Coil average power	start	250VA
	holding	30VA
Heat wastage		8W
Main contact action time	close	30ms
	disconnection	17ms



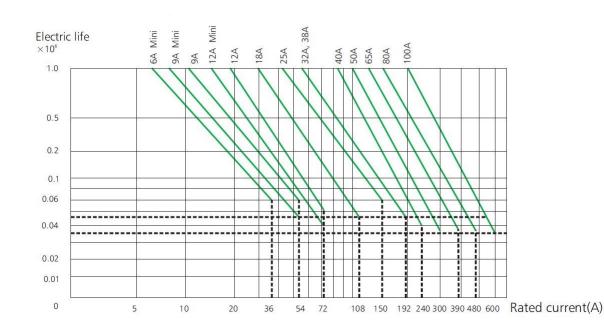
Terminal capacity of main circuit			
	flexible cable v	vith ferrule	
		single cable	16 - 50mm ²
		dual cable	10 - 35mm ²
	Screw siz		M8
	Torque		6Nm
Terminal capacity of control circu	it		
	flexible cable v	vith ferrule	
		single cable	1 - 4mm²
		dual cable	1 - 2,5mm ²
	rigid cable		
		single cable	1 - 4mm ²
		dual cable	1 - 4mm ²
	Screw size		M3,5
	Torque		1,2Nm
Terminal capacity of auxiliary cor	ntacts		
	<u>flexible cable v</u>	vith ferrule	
		single cable	1 - 4mm ²
		dual cable	1 - 2,5mm ²
	rigid cable		
		single cable	1 - 4mm ²
		dual cable	1 - 4mm ²
	Screw size		M3,5
	Torque		1,2Nm



Electrical life AC3



Electrical life AC4



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PAGE 4/9



Application in illumination circuit

			max. number
W	А	μF	of lamps per phase
60	0,27	-	296
75	0,34	-	235
100	0,45	-	177
150	0,68	-	117
200	0,71	-	88
300	1,4	-	57
500	2,3	-	34
750	3,4	-	23
1000	4,6	-	17

Single fluorescent lamp with starter, without compensation			
W	A	μF	max. number of lamps per phase
20	0,39	-	205
40	0,45	-	177
64	0,7	-	114
80	0,8	-	100
110	1,15	-	66

Single fluorescent lam	ingle fluorescent lamp with starter, parallel compensation			
W	A	μF	max. number of lamps per phase	
20	0,18	5	530	
40	0,26	5	365	
65	0,42	7	225	
80	0,52	7	180	
100	0,6	16	145	
110	0,7	18	135	

Fluorescent lamps in d	ual mounting with starter,	without compensation	
W	A	μF	max. number of lamps per phase
2 x 20	2 x 0,22	-	180
2 x 40	2 x 0,41	-	96
2 x 65	2 x 0,67	-	58
2 x 80	2 x 0,82	-	48
2 x 110	2 x 1,10	-	36

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Fluorescent lamps in dual mounting with starter, with compensation in series			
W	А	μF	max. number of lamps per phase
2 x 20	2 x 0,13	-	306
2 x 40	2 x 0,24	-	166
2 x 65	2 x 0,39	-	102
2 x 80	2 x 0,48	-	82
2 x 110	2 x 0,65	-	60

Single fluorescent lan	np without starter, without	compensation	
			max. number
W	А	μF	of lamps per phase
20	0,43	-	186
40	0,55	-	145
65	0,8	-	100
80	0,95	-	84
110	0,4	-	57

Single fluorescent lam	p with starter, with paral	lel compensation	
W	A	μF	max. number of lamps per phase
20	0,19	5	421
40	0,29	5	275
65	0,46	7	173
80	0,57	7	140
110	0,79	16	101

Fluorescent lamp with	luorescent lamp without starter, without compensation			
W	A	μF	max. number of lamps per phase	
2 x 20	2 x 0,25	-	160	
2 x 40	2 x 0,47	-	84	
2 x 65	2 x 0,76	-	52	
2 x 80	2 x 0,93	-	42	
2 x 110	2 x 1,3	-	30	

PAGE 6/9



Fluorescent lamp in du	al mounting		
without starter, with co	mpensation in series		
W	A	μF	max. number of lamps per phase
2 x 20	2 x 0,15	-	234
2 x 40	2 x 0,26	-	152
2 x 65	2 x 0,43	-	92
2 x 80	2 x 0,53	-	74
2 x 110	2 x 0,72	-	54

Low press sodium vap	or lamps with parallel co	mpensation	
W	A	μF	max. number of lamps per phase
35	0,3	17	200
55	0,4	17	150
90	0,6	25	100
135	0,9	36	66
150	1	36	60
180	1,2	36	50
200	1,3	36	46

Low press sodium vap	or lamps without comper	nsation	
W	A	μF	max. number of lamps per phase
150	1,9	-	31
250	3,2	-	18
400	5	-	12
700	8,8	-	6
1000	12,4	-	4

Low press sodium vapor lamps with parallel compensation			
			max. number
W	А	μF	of lamps per phase
150	0,84	20	71
250	1,4	32	42
400	2,2	48	27
700	3,6	96	15
1000	5,5	120	10

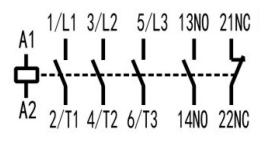


High press hydrargyrum lamps without compensation			
W	A	μF	max. number of lamps per phase
50	0,54	-	111
80	0,81	-	74
125	1,2	-	49
250	2,3	-	26
400	4,1	-	14
700	6,8	-	8
1000	9,9	-	6

High press hydrargyrum lamps with parallel compensation					
W	А	μF	max. number of lamps per phase		
50	0,3	10	120		
80	0,45	10	120		
125	0,67	10	89		
250	1,3	18	46		
400	2,3	25	26		
700	3,8	40	15		
1000	5,5	60	10		

Wiring diagram

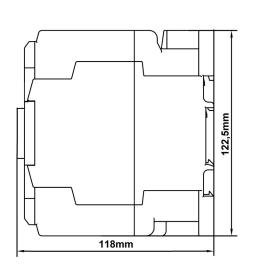
3-pole, 1NO + 1NC

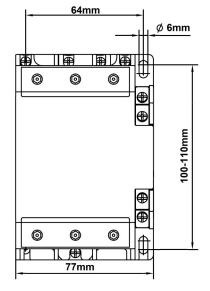




Dimensions

230VAC or 24VAC Coil





Articles

Contactors 3-pole, CUBICO High, 40kW, 100A

Description	order no.
Contactor 3-pole, CUBICO High, 40kW, 100A, 1NO+1NC, 230VAC	LZDH99B3
Contactor 3-pole, CUBICO High, 40kW, 100A, 1NO+1NC, 24VAC	LZDH99B0