

■ Contactors Series CUBICO Mini, 3-pole



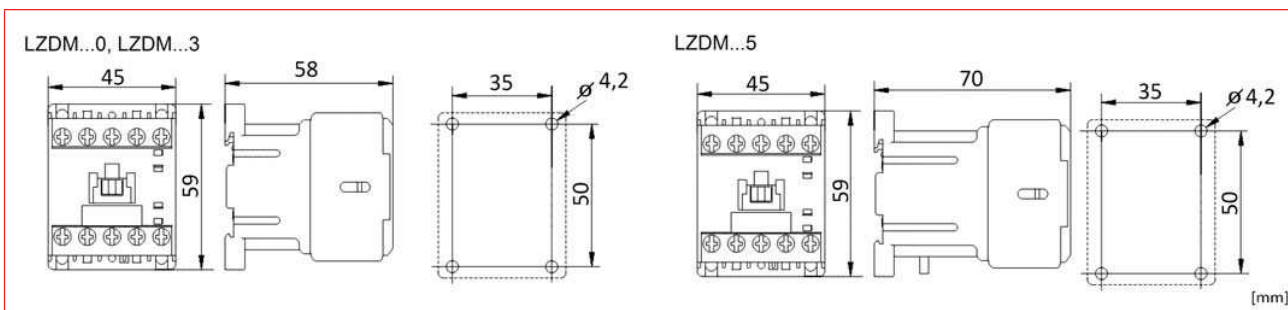
LZDM0613

■ Schrack-Info

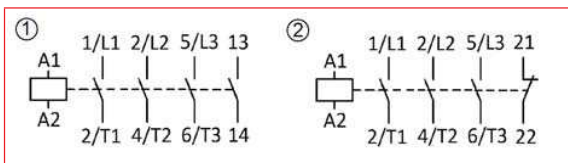
- Contactors from 3kW/6A, 4kW/9A or 5,5kW/12A, 3-pole with integrated auxiliary contact
- Available with 230VAC, 24VAC or 24VDC – coil
- Auxiliary contact NC or NO, depends of type
- Fitting surge suppressors are available
- Mountable to DIN-rail TS35 or mounting plate
- Further accessories find attached

		LZDM06	LZDM09	LZDM12
Rated insulation voltage U_i	(VAC)		690	
Utilization category AC-1 $\cos \varphi = 1$				
Rated operational current I_n at 40°C	(A)	20	20	20
Utilization category AC-2 and AC-3				
Rated power at 400VAC	(kW)	2,2	4	5,5
Rated operational current I_n 400VAC	(A)	6	9	12
Ambient temperature (operation)	(°C)	- 5 ... + 40		
Permissible mounting position		Horizontal and vertical +/- 22.5°		
Rules and regulations according		IEC/EN 60947-4-1		

■ Dimensions

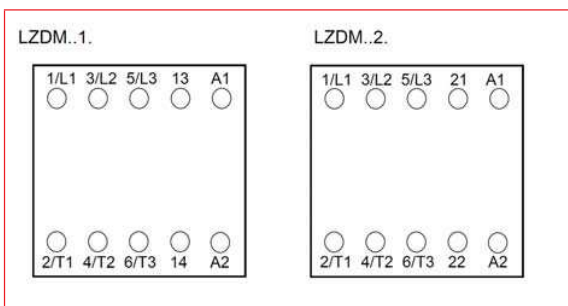


■ Circuit Diagrams



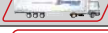

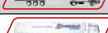
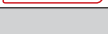
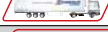



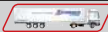









- 1) 3-pole with auxiliary contact, 1 NO
2) 3-pole with auxiliary contact, 1 NC

■ Connection Diagrams



Contactors Series CUBICO Mini, 3-pole

DESCRIPTION	AVAILABLE	ORDER NO.
6A		
3-pole, 3kW, 6A, 1NO, 230VAC		LZDM0613
3-pole, 3kW, 6A, 1NC, 230VAC		LZDM0623
3-pole, 3kW, 6A, 1NO, 24VAC		LZDM0610
3-pole, 3kW, 6A, 1NC, 24VAC		LZDM0620
3-pole, 3kW, 6A, 1NO, 24VDC		LZDM0615
3-pole, 3kW, 6A, 1NC, 24VDC		LZDM0625
9A		
3-pole, 4kW, 9A, 1NO, 230VAC		LZDM0913
3-pole, 4kW, 9A, 1NC, 230VAC		LZDM0923
3-pole, 4kW, 9A, 1NO, 24VAC		LZDM0910
3-pole, 4kW, 9A, 1NC, 24VAC		LZDM0920
3-pole, 4kW, 9A, 1NO, 24VDC		LZDM0915
3-pole, 4kW, 9A, 1NC, 24VDC		LZDM0925
12A		
3-pole, 5,5kW, 12A, 1NO, 230VAC		LZDM1213
3-pole, 5,5kW, 12A, 1NC, 230VAC		LZDM1223
3-pole, 5,5kW, 12A, 1NO, 24VAC		LZDM1210
3-pole, 5,5kW, 12A, 1NC, 24VAC		LZDM1220
3-pole, 5,5kW, 12A, 1NO, 24VDC		LZDM1215
3-pole, 5,5kW, 12A, 1NC, 24VDC		LZDM1225



Accessories Series CUBICO Mini



LZZMH022

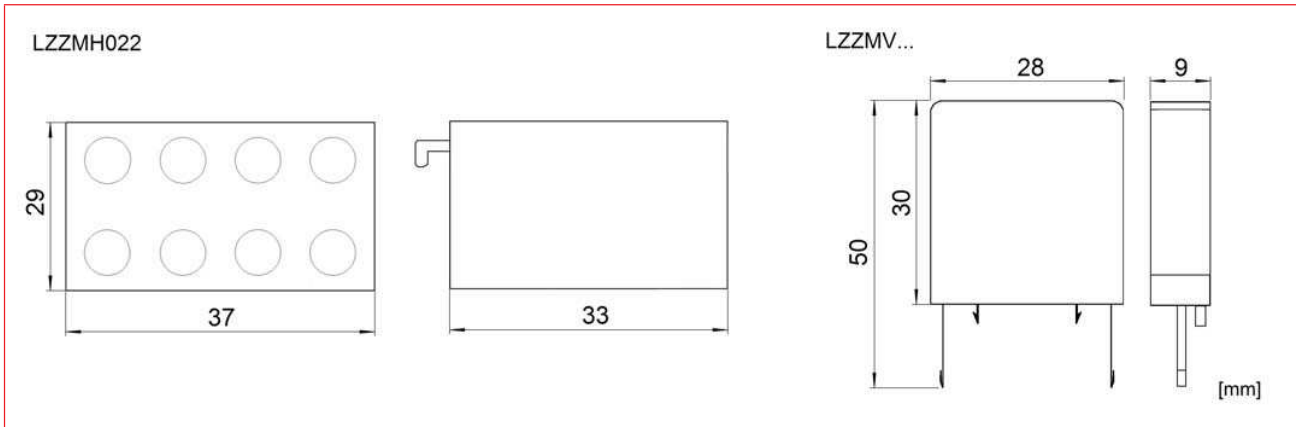


LZZMV024

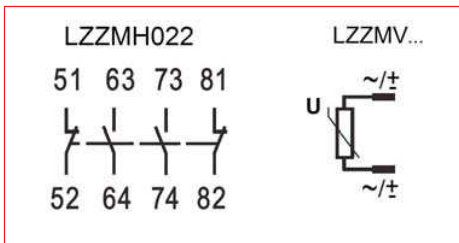
Schrack-Info

- Auxiliary contacts for front-mounting for contactors series CUBICO Mini
- Protective modules for 24V and 230V coil of the contactors

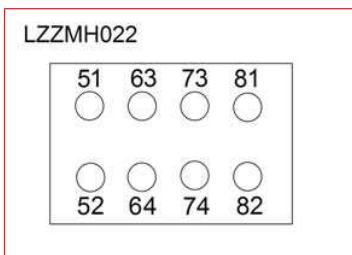
Dimensions



Circuit Diagram



Connection Diagram



DESCRIPTION	AVAILABLE	ORDER NO.
Auxiliary contacts		
Auxiliary contacts front-type for CUBICO Mini 2NO+2NC		LZZMH022
Surge suppressors		
Varistor Mini 24 - 48 V AC/DC		LZZMV024
Varistor Mini 110 - 250 V AC		LZZMV230

■ Contactors Series CUBICO Classic, 3-pole



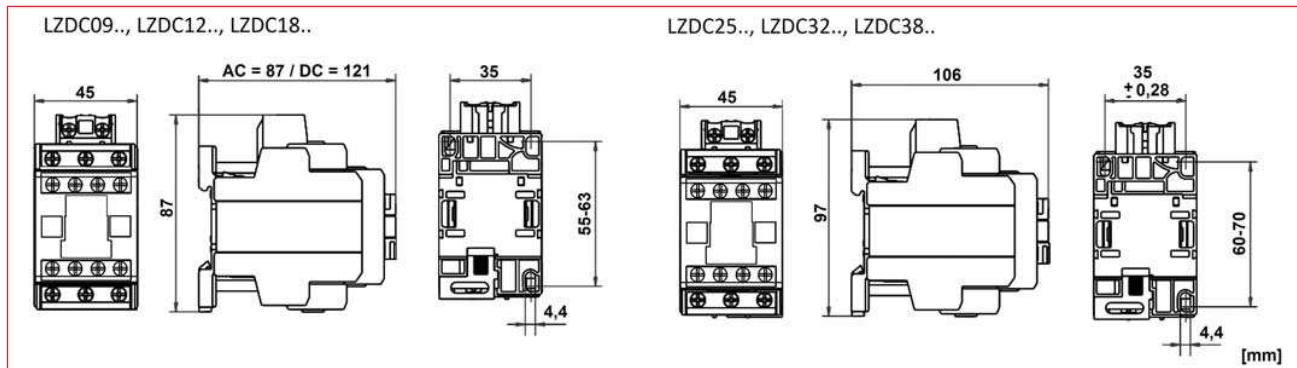
LZDC32B0

■ Schrack-Info

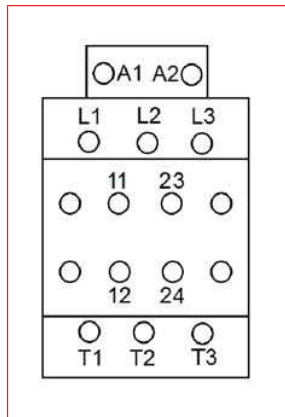
- Contactors from 4kW/9A up to 18,5kW/38A
- 3-pole with integrated auxiliary contact
- Available with 230VAC, 24VAC or 24VDC – coil
- Auxiliary contact NC or NO, depends of type
- Fitting surge suppressors are available
- Mountable to DIN-rail TS35 or mounting plate
- Further accessories find attached

		LZDC09	LZDC12	LZDC18	LZDC25	LZDC32	LZDC38
Rated insulation voltage U_i	(VAC)	690					
Utilization category AC-1 $\cos \varphi = 1$							
Rated operational current I_n at 40°C	(A)	25	25	32	40	50	50
Utilization category AC-2 and AC-3							
Rated power at 400VAC	(kW)	4	5,5	7,5	11	15	18,5
Rated operational current I_n 400VAC	(A)	9	12	18	25	32	38
Ambient temperature (operation)	(°C)	- 5 ... + 40					
Permissible mounting position		Horizontal and vertical +/- 22.5°					
Rules and regulations according		IEC/EN 60947-4-1					

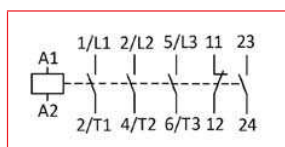
■ Dimensions



■ Connection Diagram


















■ Circuit Diagram



Contactors Series CUBICO Classic, 3-pole

Contactors Series CUBICO Classic, 3-pole

DESCRIPTION	AVAILABLE	ORDER NO.
4kW / 9A		
3-pole, 4kW, 9A, 1NO+1NC, 230VAC		LZDC09B3
3-pole, 4kW, 9A, 1NO+1NC, 24VAC		LZDC09B0
3-pole, 4kW, 9A, 1NO+1NC, 24VDC		LZDC09B5
5,5kW / 12A		
3-pole, 5,5kW, 12A, 1NO+1NC, 230VAC		LZDC12B3
3-pole, 5,5kW, 12A, 1NO+1NC, 24VAC		LZDC12B0
3-pole, 5,5kW, 12A, 1NO+1NC, 24VDC		LZDC12B5
7,5kW / 18A		
3-pole, 7,5kW, 18A, 1NO+1NC, 230VAC		LZDC18B3
3-pole, 7,5kW, 18A, 1NO+1NC, 24VAC		LZDC18B0
3-pole, 7,5kW, 18A, 1NO+1NC, 24VDC		LZDC18B5
11kW / 25A		
3-pole, 11kW, 25A, 1NO+1NC, 230VAC		LZDC25B3
3-pole, 11kW, 25A, 1NO+1NC, 24VAC		LZDC25B0
15kW / 32A		
3-pole, 15kW, 32A, 1NO+1NC, 230VAC		LZDC32B3
3-pole, 15kW, 32A, 1NO+1NC, 24VAC		LZDC32B0
18,5kW / 38A		
3-pole, 18,5kW, 38A, 1NO+1NC, 230VAC		LZDC38B3
3-pole, 18,5kW, 38A, 1NO+1NC, 24VAC		LZDC38B0

Accessories Series CUBICO Classic



LZZCH031

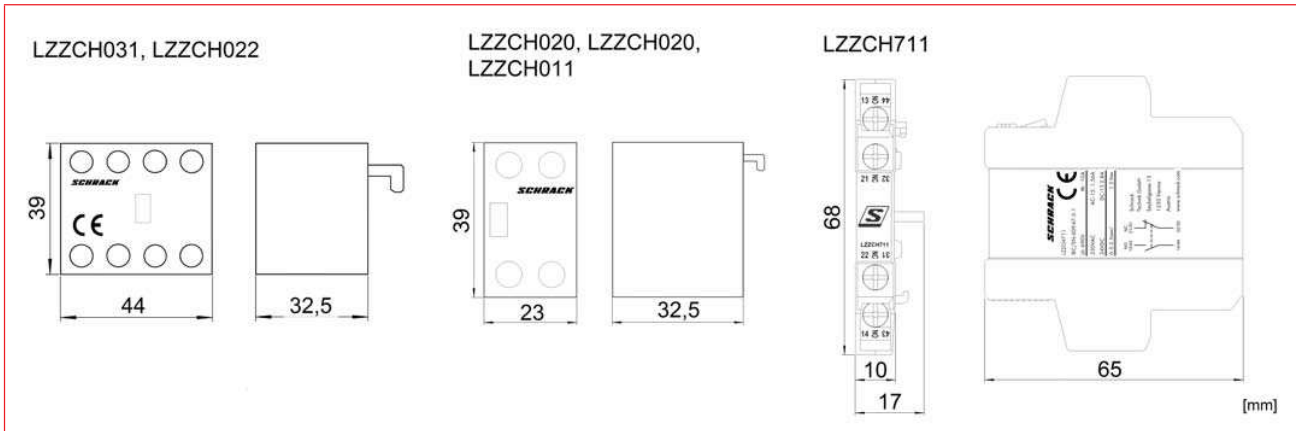


LZZCL001

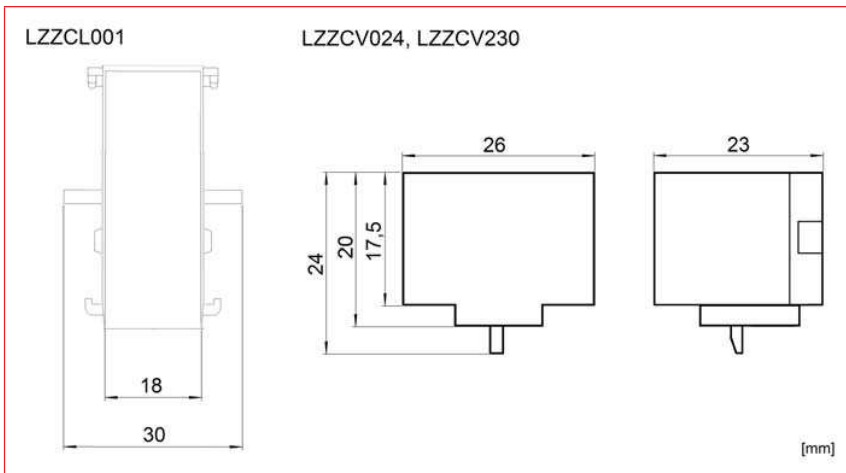
Schrack-Info

- Auxiliary contacts for front or side-mounting for contactors series CUBICO Classic
- Mechanical interlock for two contactors series Classic
- Protective modules for 24V and 230V coil of the contactors

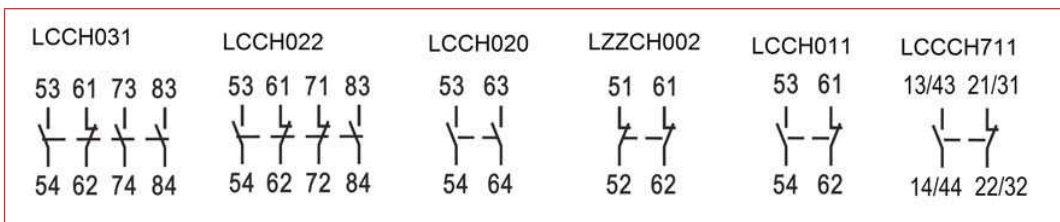
Dimensions









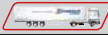
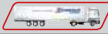
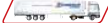
Dimensions



Circuit Diagrams

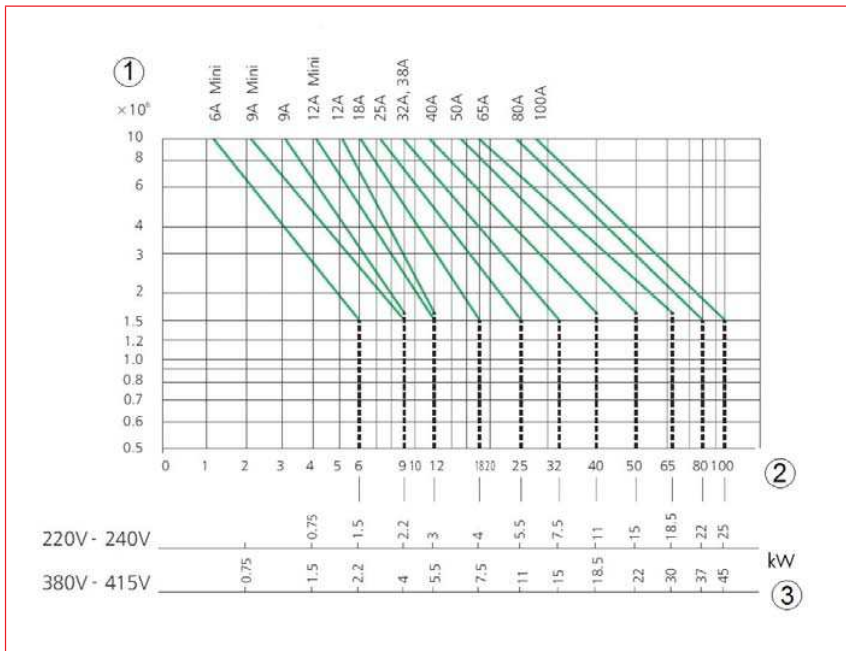


Accessories Series CUBICO Classic

DESCRIPTION	AVAILABLE	ORDER NO.
Auxiliary contact block		
Auxiliary contact front-type for CUBICO Classic, 3NO+1NC		LZZCH031
Auxiliary contact front-type for CUBICO Classic, 2NO+2NC		LZZCH022
Auxiliary contacts front-type for CUBICO Classic, 2NO		LZZCH020
Auxiliary contact front-type for CUBICO Classic, 2NC		LZZCH002
Auxiliary contact front-type for CUBICO Classic, 1NO+1NC		LZZCH011
Auxiliary contact block - side		
Auxiliary contact side-type for CUBICO Classic, 1NO+1NC		LZZCH711
Mechanical interlock		
Mechanical interlock for CUBICO Classic		LZZCL001
Surge suppressors		
Varistor Classic 24 - 48 V AC/DC		LZZCV024
Varistor Classic 110 - 250 V AC		LZZCV230

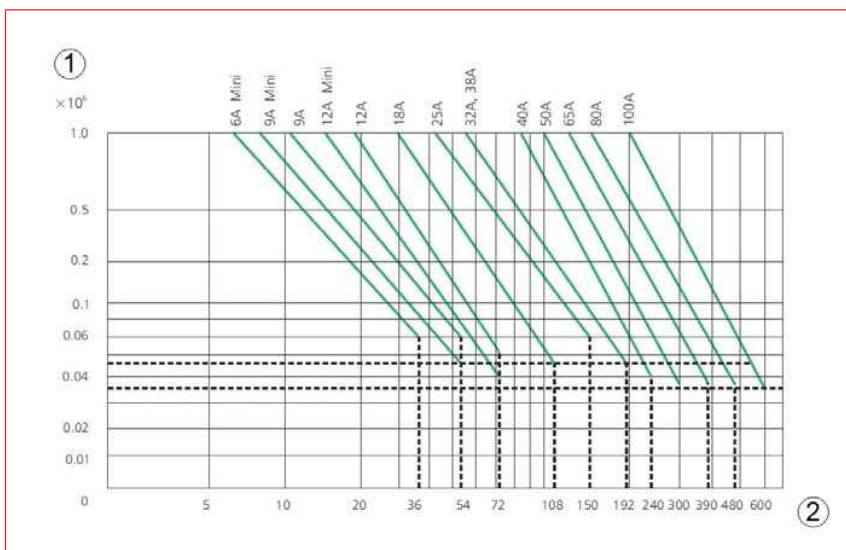
Electromechanical Contactors Series CUBICO Mini, 3-pole

Electric Life Curve AC3



- 1) Electric life curve
- 2) Rated current (A)
- 3) Rated outputs of three-phase motors AC-3 (50Hz)

Electric Life Curve AC4



- 1) Electric life curve
- 2) Rated current (A)

Electromechanical Contactors Series CUBICO Mini, 3-pole

Technical Specifications

		LZDM06	LZDM09	LZDM12	
Standard		IEC/EN 60947-4-1			
Rated insulation voltage		690VAC			
Rated frequency		50/60Hz			
Rated impulse withstand voltage		6kV			
Overvoltage category		III			
Rated current AC1		20A	20A	20A	
Rated current AC3	230V	6A	9A	12A	
	400V	6A	9A	12A	
	415V	6A	9A	12A	
	690V	3.8A	4.9A	4.9A	
Rated current AC4	230V	6A	9A	12A	
	400V	6A	9A	9A	
	415V	6A	9A	9A	
	690V	3.8A	4.9A	4.9A	
Rated making capacity		10 x I _n (AC3) / 12 x I _n (AC4)			
Rated breaking capacity		8 x I _n (AC3) / 10 x I _n (AC4)			
Short-time withstand current 10s		48A	72A	96A	
Rated power AC3	230V	1.5kW	2.2kW	3kW	
	400V	2.2kW	4kW	5.5kW	
	415V	2.2kW	4kW	5.5kW	
	690V	3kW	4kW	4kW	
Operating frequency	AC3	1.200 operations/h			
	AC4	300 operations/h			
Electrical lifetime		1.200.000 operations			
Mechanical lifetime		10.000.000 operations			
Configuration of main contacts		3-pole	3 NO	3 NO	
Protection degree		IP20			
Ambient air temperature		- 5 up to + 40°C	- 5 up to + 40°C	- 5 up to + 40°C	
Storage temperature		- 25 up to + 55°C	- 25 up to + 55°C	- 25 up to + 55°C	
Correction coefficient	40°C	1	1	1	
	50°C	0,875	0,875	0,875	
	60°C	0,75	0,75	0,75	
	70°C	0,625	0,625	0,625	
Altitude		2000m			
Atmosphere conditions		50% humidity at +40°C			
Installation position		horizontal and vertical +/- 22,5°			
Coil voltage		Us	24VAC, 230VAC or 24VDC		
Coil acting range	attraction	85% - 110% Us	85% - 110% Us	85% - 110% Us	
	release	AC: 20%-70% Us DC: 10%-60% Us	AC: 20%-70% Us DC: 10%-60% Us	AC: 20%-70% Us DC: 10%-60% Us	
Coil average power	start	40VA	40VA	40VA	
	holding	7VA	7VA	7VA	
Heat wastage		4W			
Main contact action time	close	10 - 18ms	10 - 18 ms	10 - 18ms	
	disconnection	4 - 16ms	4 - 16 ms	4 - 16ms	
Terminal capacity of main circuit	flexible with end sleeve	1 x	1 - 2.5mm ²	1 - 2.5mm ²	
		2 x	1 - 2.5mm ²	1 - 2.5mm ²	
	rigid cable	1 x	1 - 2.5mm ²	1 - 2.5mm ²	
		2 x	1 - 2.5mm ²	1 - 2.5mm ²	
	screw size		M3		
	torque		0.8Nm		
Terminal capacity of control circuit	flexible with end sleeve	1 x	1 - 2.5mm ²	1 - 2.5mm ²	
		2 x	1 - 2.5mm ²	1 - 2.5mm ²	
	rigid cable	1 x	1 - 2.5mm ²	1 - 2.5mm ²	
		2 x	1 - 2.5mm ²	1 - 2.5mm ²	
	screw size		M3		
	torque		0.8Nm		
Terminal capacity of auxiliary contacts	flexible with end sleeve	1 x	1 - 2.5mm ²	1 - 2.5mm ²	
		2 x	1 - 2.5mm ²	1 - 2.5mm ²	
	rigid cable	1 x	1 - 2.5mm ²	1 - 2.5mm ²	
		2 x	1 - 2.5mm ²	1 - 2.5mm ²	
	screw size		M3		
	torque		0.8Nm		

Electromechanical Contactors Series CUBICO Mini, 3-pole

Application in Illumination Circuit

W	A	μF	LZDM06	LZDM09	LZDM12
			max. number of lamps per phase		
Incandescent lamp					
60	0,27	-	35	35	35
75	0,34	-	28	28	28
100	0,45	-	21	21	21
150	0,68	-	14	14	14
200	0,71	-	10	10	10
300	1,4	-	6	6	6
500	2,3	-	4	4	4
750	3,4	-	2	2	2
1000	4,6	-	2	2	2
Single fluorescent lamp with starter, without compensation					
20	0,39	-	24	24	24
40	0,45	-	21	21	21
64	0,7	-	12	12	12
80	0,8	-	12	12	12
110	1,15	-	8	8	8
Single fluorescent lamp with starter, parallel compensation					
20	0,18	5	83	83	83
40	0,26	5	58	58	58
65	0,42	7	35	35	35
80	0,52	7	28	28	28
100	0,6	16	23	23	23
110	0,7	18	21	21	21
Fluorescent lamps in dual mounting with starter, without compensation					
2 x 20	2 x 0,22	-	21	21	21
2 x 40	2 x 0,41	-	11	11	11
2 x 65	2 x 0,67	-	7	7	7
2 x 80	2 x 0,82	-	5	5	5
2 x 110	2 x 1,10	-	4	4	4
Fluorescent lamps in dual mounting with starter, with compensation in series					
2 x 20	2 x 0,13	-	36	36	36
2 x 40	2 x 0,24	-	20	20	20
2 x 65	2 x 0,39	-	12	12	12
2 x 80	2 x 0,48	-	10	10	10
2 x 110	2 x 0,65	-	7	7	7
Single fluorescent lamp without starter, without compensation					
20	0,43	-	22	22	22
40	0,55	-	17	17	17
65	0,8	-	12	12	12
80	0,95	-	10	10	10
110	0,4	-	6	6	6
Single fluorescent lamp with starter, with parallel compensation					
20	0,19	5	50	50	50
40	0,29	5	33	33	33
65	0,46	7	20	20	20
80	0,57	7	16	16	16
110	0,79	16	-	-	-
Fluorescent lamp without starter, without compensation					
2 x 20	2 x 0,25	-	19	19	19
2 x 40	2 x 0,47	-	10	10	10
2 x 65	2 x 0,76	-	6	6	6
2 x 80	2 x 0,93	-	5	5	5
2 x 110	2 x 1,3	-	3	3	3

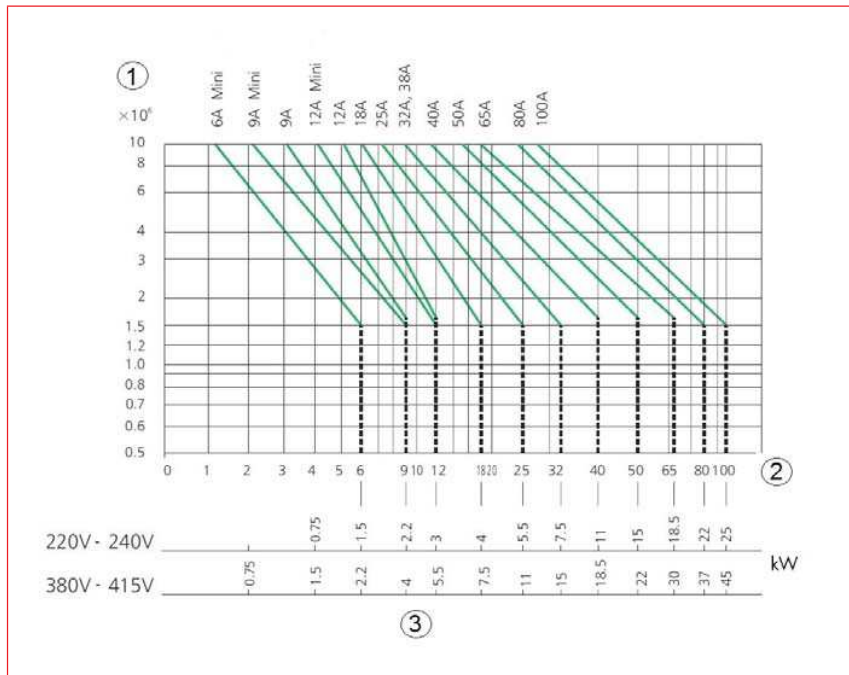
Electromechanical Contactors Series CUBICO Mini, 3-pole

Application in Illumination Circuit

W	A	µF	LZDM06	LZDM09	LZDM12
			max. number of lamps per phase		
Fluorescent lamp in dual mounting without starter, with compensation in series					
2 x 20	2 x 0,15	-	34	34	34
2 x 40	2 x 0,26	-	18	18	18
2 x 65	2 x 0,43	-	11	11	11
2 x 80	2 x 0,53	-	9	9	9
2 x 110	2 x 0,72	-	6	6	6
Low press sodium vapor lamps with parallel compensation					
35	0,3	17	-	-	-
55	0,4	17	-	-	-
90	0,6	25	-	-	-
135	0,9	36	-	-	-
150	1	36	-	-	-
180	1,2	36	-	-	-
200	1,3	36	-	-	-
Low press sodium vapor lamps without compensation					
150	1,9	-	4	4	4
250	3,2	-	2	2	2
400	5	-	1	1	1
700	8,8	-	-	-	-
1000	12,4	-	-	-	-
Low press sodium vapor lamps with parallel compensation					
150	0,84	20	-	-	-
250	1,4	32	-	-	-
400	2,2	48	-	-	-
700	3,6	96	-	-	-
1000	5,5	120	-	-	-
High press hydrargyrum lamps without compensation					
50	0,54	-	14	14	14
80	0,81	-	9	9	9
125	1,2	-	6	6	6
250	2,3	-	3	3	3
400	4,1	-	1	1	1
700	6,8	-	-	-	-
1000	9,9	-	-	-	-
High press hydrargyrum lamps with parallel compensation					
50	0,3	10	-	-	-
80	0,45	10	-	-	-
125	0,67	10	-	-	-
250	1,3	18	-	-	-
400	2,3	25	-	-	-
700	3,8	40	-	-	-
1000	5,5	60	-	-	-

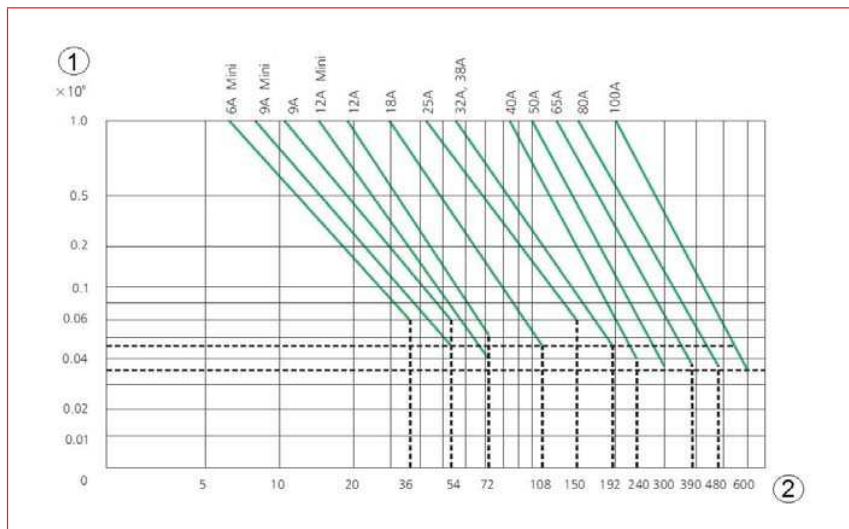
Electromechanical Contactors Series CUBICO Classic, 3-pole

Electric Life Curve AC3



- 1) Electric life curve
- 2) Rated current (A)
- 3) Rated outputs of three-phase motors AC-3 (50Hz)

Electric Life Curve AC4



- 1) Electric life curve
- 2) Rated current (A)

Electromechanical Contactors Series CUBICO Classic, 3-pole

Technical Specifications

		LZDC09	LZDC12	LZDC18	LZDC25	LZDC32	LZDC38
Standard		IEC/EN 60947-4-1					
Rated insulation voltage		690VAC					
Rated frequency		50/60Hz					
Rated impulse withstand voltage		6kV					
Overvoltage category		III					
Rated current AC1		25A	25A	32A	40A	50A	50A
Rated current AC3	230V	9A	12A	18A	25A	32A	38A
	400V	9A	12A	18A	25A	32A	38A
	415V	9A	12A	18A	25A	32A	38A
	690V	6.7A	9A	10.6A	17.3A	21.9A	21.9A
Rated current AC4	230V	9A	12A	18A	25A	32A	38A
	400V	9A	12A	18A	25A	32A	32A
	415V	9A	12A	18A	25A	32A	32A
	690V	6.7A	9A	9A	17.3A	21.9A	21.9A
Rated making capacity		10 x I _n (AC3) / 12 x I _n (AC4)					
Rated breaking capacity		8 x I _n (AC3) / 10 x I _n (AC4)					
Short-time withstand current 10s		72A	96A	144A	200A	256A	304A
Rated power AC3	230V	2.2kW	4kW	4kW	5.5kW	7.5kW	9kW
	400V	4kW	5.5kW	7.5kW	11kW	15kW	18.5kW
	415V	4kW	5.5kW	9kW	11kW	15kW	18.5kW
	690V	5.5kW	7.5kW	9kW	15kW	18.5kW	18.5kW
Operating frequency	AC3	1.200 operations/h					
	AC4	300 operations/h					
Electrical lifetime		1.200.000 operations					
Mechanical lifetime		10.000.000 operations					
Configuration of main contacts		3-pole	3 NO				
Configuration of auxiliary contacts		1 NO and 1 NC					
Protection degree		IP20					
Ambient air temperature		- 5 up to + 40 °C					
Storage temperature		- 25 up to + 55 °C					
Correction coefficient	40 °C	1	1	1	1	1	1
	50 °C	0,875	0,875	0,875	0,875	0,875	0,875
	60 °C	0,75	0,75	0,75	0,75	0,75	0,75
	70 °C	0,625	0,625	0,625	0,625	0,625	0,625
Altitude		2000m	2000m	2000m	2000m	2000m	2000m
Atmosphere conditions		50% humidity at +40 °C					
Installation position		horizontal and vertical +/- 22,5 °					
Coil voltage		U _n	230VAC or 24VAC				
Coil acting range		attraction	85% - 110% U _s				
		release	AC: 20%-70% U _s				
Coil average power	start	70VA	70VA	70VA	70VA	70VA	70VA
	holding	10VA	10VA	10VA	10VA	10VA	10VA
Heat wastage		4W	4W	4W	4W	4W	4W
Main contact action time	close	12 - 25ms	12 - 25ms	12 - 25ms	12 - 25ms	12 - 25ms	12 - 25ms
	disconnection	5 - 20ms	5 - 20ms	5 - 20ms	5 - 20ms	5 - 20ms	5 - 20ms
Terminal capacity of main circuit							
flexible with end sleeve	1 x	1 - 4mm ²	1 - 4mm ²	1.5 - 6mm ²	2.5 - 10mm ²	2.5 - 10mm ²	2.5 - 10mm ²
	2 x	1 - 2.5mm ²	1 - 2.5mm ²	1 - 4mm ²	2.5 - 6mm ²	2.5 - 6mm ²	2.5 - 6mm ²
rigid cable	1 x	1 - 4mm ²	1 - 4mm ²	1.5 - 6mm ²	2.5 - 10mm ²	2.5 - 10mm ²	2.5 - 10mm ²
	2 x	1 - 4mm ²	1 - 4mm ²	1.5 - 6mm ²	2.5 - 10mm ²	2.5 - 10mm ²	2.5 - 10mm ²
screw size		M3.5	M3.5	M3.5	M4	M4	M4
torque		1.2Nm	1.2Nm	1.2Nm	2Nm	2Nm	2Nm
Terminal capacity of control circuit							
flexible with end sleeve	1 x	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²
	2 x	1 - 2.5mm ²	1 - 2.5mm ²	1 - 2.5mm ²	1 - 2.5mm ²	1 - 2.5mm ²	1 - 2.5mm ²
rigid cable	1 x	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²
	2 x	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²
screw size		M3.5	M3.5	M3.5	M3.5	M3.5	M3.5
torque		1.2Nm	1.2Nm	1.2Nm	1.2Nm	1.2Nm	1.2Nm
Terminal capacity of auxiliary contacts							
flexible with end sleeve	1 x	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²
	2 x	1 - 2.5mm ²	1 - 2.5mm ²	1 - 2.5mm ²	1 - 2.5mm ²	1 - 2.5mm ²	1 - 2.5mm ²
rigid cable	1 x	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²
	2 x	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²	1 - 4mm ²
screw size		M3.5	M3.5	M3.5	M3.5	M3.5	M3.5
torque		1.2Nm	1.2Nm	1.2Nm	1.2Nm	1.2Nm	1.2Nm

Electromechanical Contactors Series CUBICO Classic, 3-pole

Application in Illumination Circuit

W	A	μF	LZDC09	LZDC12	LZDC18	LZDC25	LZDC32	LZDC38
			max. number of lamps per phase					
Incandescent lamp								
60	0,27	-	59	59	77	92	129	129
75	0,34	-	47	47	61	73	103	103
100	0,45	-	35	35	46	55	77	77
150	0,68	-	23	23	30	36	51	51
200	0,71	-	17	17	23	27	38	38
300	1,4	-	11	11	15	18	25	25
500	2,3	-	7	7	8	11	15	15
750	3,4	-	4	4	6	7	10	10
1000	4,6	-	3	3	4	5	7	7
Single fluorescent lamp with starter, without compensation								
20	0,39	-	41	41	53	66	89	89
40	0,45	-	35	35	46	57	77	77
64	0,7	-	22	22	30	37	50	50
80	0,8	-	20	20	26	32	43	43
110	1,15	-	12	12	15	20	26	26
Single fluorescent lamp with starter, parallel compensation								
20	0,18	5	94	94	105	155	215	215
40	0,26	5	65	65	75	107	150	150
65	0,42	7	40	40	45	66	92	92
80	0,52	7	32	32	36	53	74	74
100	0,6	16	26	26	29	43	59	59
110	0,7	18	24	24	27	40	55	55
Fluorescent lamps in dual mounting with starter, without compensation								
2 x 20	2 x 0,22	-	36	36	46	58	78	78
2 x 40	2 x 0,41	-	18	18	24	30	42	42
2 x 65	2 x 0,67	-	10	10	14	18	26	26
2 x 80	2 x 0,82	-	8	8	12	14	20	20
2 x 110	2 x 1,10	-	6	6	8	10	14	14
Fluorescent lamps in dual mounting with starter, with compensation in series								
2 x 20	2 x 0,13	-	60	60	80	100	134	134
2 x 40	2 x 0,24	-	32	32	42	54	72	72
2 x 65	2 x 0,39	-	20	20	26	32	44	44
2 x 80	2 x 0,48	-	16	16	20	26	36	36
2 x 110	2 x 0,65	-	12	12	16	20	26	26
Single fluorescent lamp without starter, without compensation								
20	0,43	-	37	37	48	60	97	97
40	0,55	-	29	29	38	47	63	63
65	0,8	-	20	20	26	32	43	43
80	0,95	-	16	16	22	27	36	36
110	0,4	-	11	11	15	18	25	25
Single fluorescent lamp with starter, with parallel compensation								
20	0,19	5	84	84	110	136	184	184
40	0,29	5	55	55	72	89	101	101
65	0,46	7	34	34	45	56	76	76
80	0,57	7	28	28	36	45	61	61
110	0,79	16	20	20	26	32	44	44
Fluorescent lamp without starter, without compensation								
2 x 20	2 x 0,25	-	32	32	42	52	70	70
2 x 40	2 x 0,47	-	16	16	22	26	36	36
2 x 65	2 x 0,76	-	10	10	12	16	22	22
2 x 80	2 x 0,93	-	8	8	10	12	18	18
2 x 110	2 x 1,3	-	6	6	8	10	12	12

Electromechanical Contactors Series CUBICO Classic, 3-pole

Application in Illumination Circuit

W	A	µF	LZDC09	LZDC12	LZDC18	LZDC25	LZDC32	LZDC38
			max. number of lamps per phase					
Fluorescent lamp in dual mounting without starter, with compensation in series								
2 x 20	2 x 0,15	-	56	56	74	92	124	124
2 x 40	2 x 0,26	-	30	30	40	50	66	66
2 x 65	2 x 0,43	-	18	18	24	30	40	40
2 x 80	2 x 0,53	-	14	14	18	24	32	32
2 x 110	2 x 0,72	-	10	10	14	18	24	24
Low press sodium vapor lamps with parallel compensation								
35	0,3	17	40	40	50	63	86	86
55	0,4	17	30	30	37	47	65	65
90	0,6	25	-	-	25	31	43	43
135	0,9	36	-	-	-	21	28	28
150	1	36	-	-	-	19	26	26
180	1,2	36	-	-	-	15	21	21
200	1,3	36	-	-	-	14	20	20
Low press sodium vapor lamps without compensation								
150	1,9	-	6	6	7	10	13	13
250	3,2	-	3	3	4	5	8	8
400	5	-	2	2	3	3	5	5
700	8,8	-	-	-	2	2	2	2
1000	12,4	-	-	-	1	1	2	2
Low press sodium vapor lamps with parallel compensation								
150	0,84	20	-	-	17	22	30	30
250	1,4	32	-	-	-	13	18	18
400	2,2	48	-	-	-	8	11	11
700	3,6	96	-	-	-	-	6	6
1000	5,5	120	-	-	-	-	-	-
High press hydrargyrum lamps without parallel compensation								
50	0,54	-	22	22	27	35	48	48
80	0,81	-	14	14	18	23	32	32
125	1,2	-	9	9	12	15	21	21
250	2,3	-	5	5	6	8	11	11
400	4,1	-	2	2	3	4	6	6
700	6,8	-	1	1	2	2	3	3
1000	9,9	-	1	1	1	1	2	2
High press hydrargyrum lamps with parallel compensation								
50	0,3	10	40	40	50	63	86	86
80	0,45	10	26	26	33	42	57	57
125	0,67	10	17	17	22	28	38	38
250	1,3	18	9	9	11	14	20	20
400	2,3	25	-	-	6	8	11	11
700	3,8	40	-	-	-	5	6	6
1000	5,5	60	-	-	-	3	4	4

Thermal Overload Relays Series CUBICO Mini

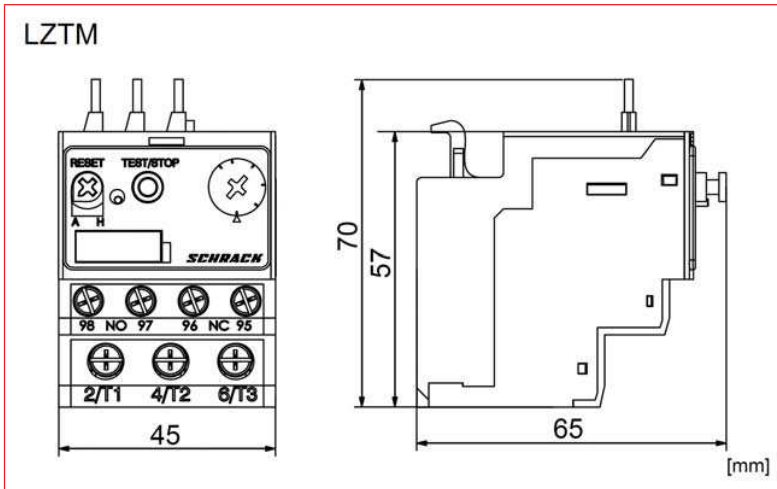


LZTM0016

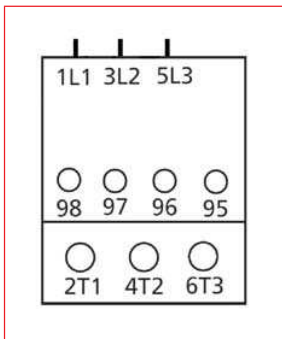
Schrack-Info

- Matching on contactor series CUBICO Mini
- Plug-in type
- Included auxiliary contacts
- Phase failure protection
- Manual and automatic reset
- Temperature compensation
- Tripping indicator
- Test- and Stop-button

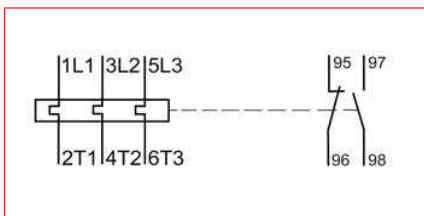
Dimensions



Connection Diagram











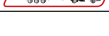


Circuit Diagram



Thermal Overload Relays Series CUBICO

Thermal Overload Relays Series CUBICO Mini

DESCRIPTION	AVAILABLE	ORDER NO.
Bimetal-version		
0,1 - 0,16A		LZTM0016
0,16 - 0,25A		LZTM0025
0,25 - 0,40A		LZTM0040
0,4 - 0,63A		LZTM0063
0,63 - 1A		LZTM0100
1 - 1,6A		LZTM0160
1,6 - 2,5A		LZTM0250
2,5 - 4A		LZTM0400
4 - 6A		LZTM0600
5,5 - 8A		LZTM0800
7 - 10A		LZTM1000
9 - 13A		LZTM1300

Thermal Overload Relays Series CUBICO Classic

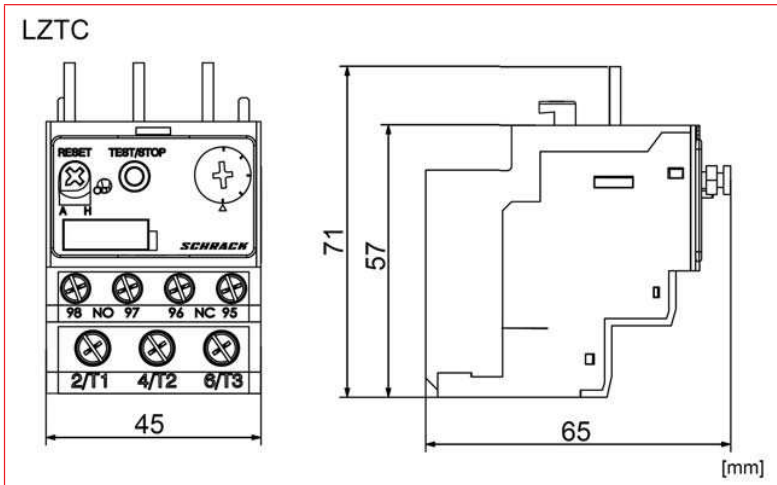


LZTC0025

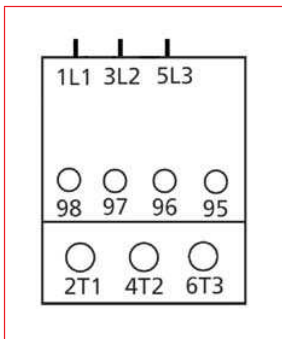
Schrack-Info

- Matching on contactor series CUBICO Classic
- Plug-in type
- Included auxiliary contacts
- Phase failure protection
- Manual and automatic reset
- Temperature compensation
- Tripping indicator
- Test- and Stop-button

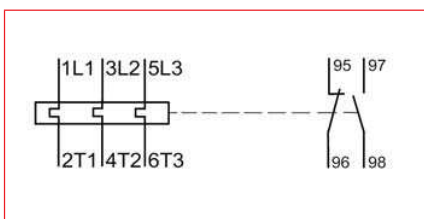
Dimensions



Connection Diagramm




Circuit Diagram



Thermal Overload Relays Series CUBICO

Thermal Overload Relays Series CUBICO Classic

DESCRIPTION	AVAILABLE	ORDER NO.
Bimetal-version		
0,16A - 0,25A		LZTC0025
0,25 - 0,4A		LZTC0040
0,4 - 0,63A		LZTC0063
0,63 - 1A		LZTC0100
1 - 1,6A		LZTC0160
1,6 - 2,5A		LZTC0250
2,5 - 4A		LZTC0400
4 - 6A		LZTC0600
5,5 - 8A		LZTC0800
7 - 10A		LZTC1000
9 - 13A		LZTC1300
12 - 18A		LZTC1800
16 - 24A		LZTC2400
23 - 32A		LZTC3200
30 - 38A		LZTC3800

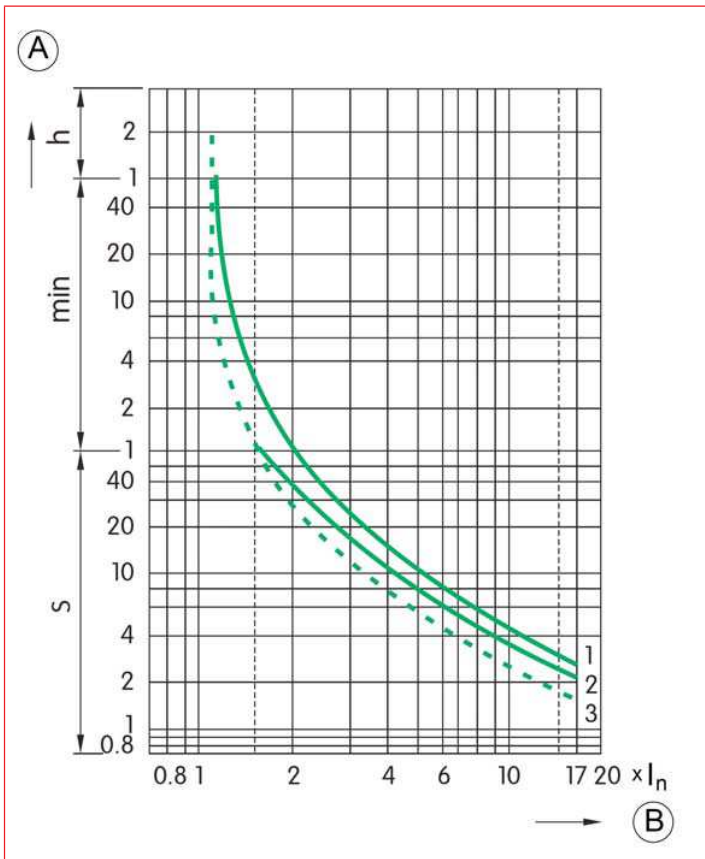
Thermal Overload Relays Series CUBICO Mini

Technical Specifications - LZTM

Standard		IEC/EN 60947-4-1
Rated insulation voltage		690VAC
Rated frequency		50/60Hz
Rated impulse withstand voltage		6kV
Overvoltage category		III
Rated current		0.1A - 13A
Tripping class		Class 10A
Rated current I_N		0.1 - 0.16A
		0.16 - 0.25A
		0.25 - 0.4A
		0.4 - 0.63A
		0.63 - 1A
		1 - 1.6A
		1.6 - 2.5A
		2.5 - 4A
		4 - 6A
		5.5 - 8A
	7 - 10A	
	9 - 13A	
Match to contactor		LZDM....
Matching fuse	0.1 - 0.16A	2AgG/gL
	0.16 - 0.25A	2AgG/gL
	0.25 - 0.4A	2AgG/gL
	0.4 - 0.63A	2AgG/gL
	0.63 - 1A	4AgG/gL
	1 - 1.6A	4AgG/gL
	1.6 - 2.5A	6AgG/gL
	2.5 - 4A	10AgG/gL
	4 - 6A	16AgG/gL
	5.5 - 8A	20AgG/gL
	7 - 10A	20AgG/gL
	9 - 13A	25AgG/gL
Overload protection	$1.05 \times I_N$	No operation within 2h
	$1.2 \times I_N$	Operation within 2h
	$1.5 \times I_N$	Operation within 2min
	$7.2 \times I_N$	$2s < \text{Tripping} \leq 10s$
Mounting		Plug-in type
Auxiliary contacts		1NO + 1NC
Rated current of auxiliary contact	AC-15 230V	2.61A
	AC-15 400V	1.5A
	DC-13 220V	0.2A
Terminal cross section main circuit	Single-core conductor	1 - 2.5mm ²
	Stranded conductor	1 - 2.5mm ²
	Terminal screw	M4
Terminal cross section auxiliary circuit	Single-core conductor	0.5 - 2.5mm ²
	Stranded conductor	0.5 - 2.5mm ²
	Terminal screw	M3.5

Thermal Overload Relays Series CUBICO Mini

Electric Tripping Curves - Class 10A



A) Tripping time

B) Current

1) 1-phase operation, cold state start

2) 2-phase operation, cold state start

3) 3-phase operation, cold state start

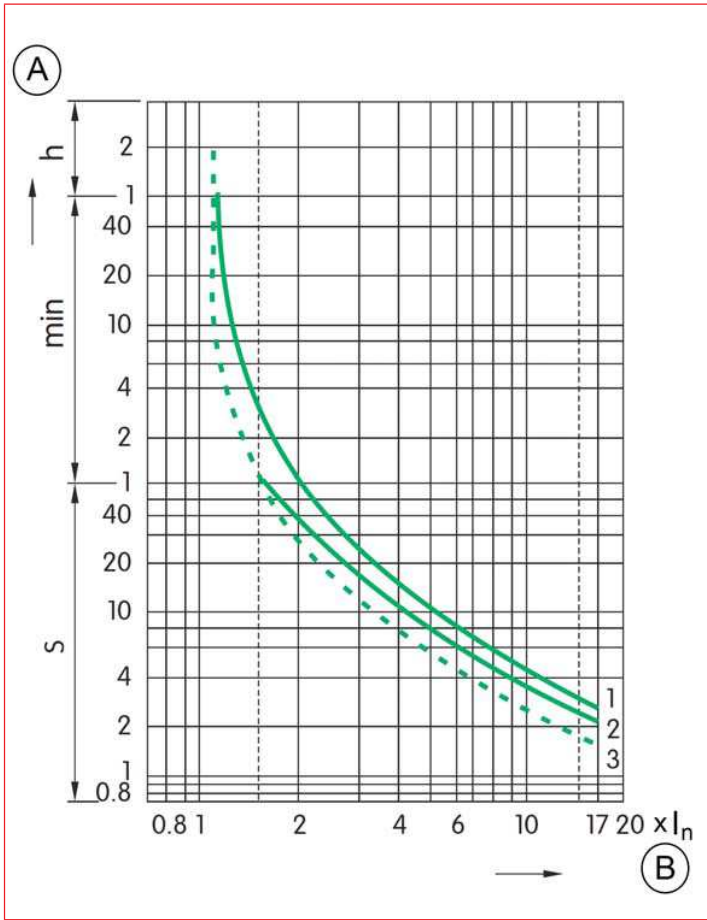
Thermal Overload Relays Series CUBICO Classic

Technical Specifications - LZTC

Standard		IEC/EN 60947-4-1
Rated insulation voltage		690VAC
Rated frequency		50/60Hz
Rated impulse withstand voltage		6kV
Overvoltage category		III
Rated current		0.16A - 38A
Tripping class		Class 10A
Rated current I_N		0.16A-0.25A
		0.25-0.4A
		0.4-0.63A
		0.63-1A
		1-1.6A
		1.6-2.5A
		2.5-4A
		4-6A
		5.5-8A
		7-10A
		9-13A
		12-18A
		16-24A
		23-32A
		30-38A
Matching contactor		LZDC....
Matching fuse	0.16-0.25A	2AgG/gL
	0.25-0.4A	2AgG/gL
	0.4-0.63A	2AgG/gL
	0.63-1A	4AgG/gL
	1-1.6A	4AgG/gL
	1.6-2.5A	6AgG/gL
	2.5-4A	10AgG/gL
	4-6A	16AgG/gL
	5.5-8A	20AgG/gL
	7-10A	20AgG/gL
	9-13A	25AgG/gL
	12-18A	35AgG/gL
	16-24A	50AgG/gL
	23-32A	63AgG/gL
	30-38A	80AgG/gL
Overload protection	1.05 x I_N	No operation within 2h
	1.2 x I_N	Operation within 2h
	1.5 x I_N	Operation within 2min
	7.2 x I_N	2s < Tripping ≤ 10s
Mounting		Plug-in type
Auxiliary contact		1NO + 1NC
Rated current of auxiliary contact	AC-15 230V	2.6A
	AC-15 400V	1.5A
	DC-13 220V	0.2A
Terminal cross section main circuit		
	Single-core conductor	1 - 10mm ²
	Stranded conductor	1 - 10mm ²
	Terminal screw	M4
Terminal cross section auxiliary circuit		
	Single-core conductor	0.5 - 2.5mm ²
	Stranded conductor	0.5 - 2.5mm ²
	Terminal screw	M3.5

Thermal Overload Relays Series CUBICO Classic

Electric Tripping Curve - Class 10A



A) Tripping time

B) Current

1) 1-phase operation, cold state start

2) 2-phase operation, cold state start

3) 3-phase operation, cold state start