

ETICON

Bistable switches RBS

Technical data

Type			RBS220	RBS225	RBS232	RBS420	RBS425	BI432		
Standards			IEC/EN 60669-2-2							
Manual control			✓							
Control with impulse voltage			✓							
Indication			With actuator							
Protection degree accordance to IEC/EN 60529			IP 20							
Module width			1			2				
Ambient temperature		°C	-25...+55							
Storage temperature		°C	-30...+80							
Max. resistance to humidity			95 % RH @ +55 °C							
Min. contact reliability			10 V / 100 mA							
Max. shock resistance accordance to IEC/EN 60068-2-27		g	15							
Max. vibration resistance accordance to IEC/EN 60068-2-6		g	3							
Min. distance of open contacts		mm	>3							
Distance between contacts and coil		mm	>6							
Mechanical endurance		cycles	106							
Max. back-up fuse for short-circuit protection (gL)		A	20	25	32	20	25	32		
Power dissipation per pole		W	1,5	2	3	1,5	2	3		
Rated control voltages	U _c	V	AC: 24, 230, other on request							
Rated frequency of control voltage	f _c	Hz	50 / 60							
Range of control voltage	U _c	%	90...110							
Coil consumption — inrush		VA/W	18 / 13							
Coil consumption — hold		VA/W	9 / 4							
Min. impulse duration at U _c		ms	50							
Min. impulse duration at 0,85 U _c		ms	100							
Min. duration between two impulses		ms	150							
Max. number of impulses per minute			15		7,5		15		7,5	
Max. impulse duration at U _c		h	1							
Rated impulse voltage	U _{imp}	kV	4							
Thermal current	I _{th}	A	20	25	32	20	25	32		
Rated insulation voltage	U _i	V	440							
Rated operational voltage	U _e	V	440							
Rated frequency	f _e	Hz	50 / 60							
Rated operational current for cosφ = 0,6 acc. to IEC/EN 60669-2-2	I _e	A	20 / 440 V	25 / 440 V	32 / 440 V	20 / 440 V	25 / 440 V	32 / 440 V		
Rated operational current for AC-1 acc. to IEC/EN 60947-4-1	I _e	A	20 / 440 V	25 / 440 V	32 / 440 V	20 / 440 V	25 / 440 V	32 / 440 V		
Rated operational current for AC-7a acc. to IEC/EN 61095 — Slightly inductive loads in household appliances and similar applications	I _e	A	20 / 440 V	25 / 440 V	32 / 440 V	20 / 440 V	25 / 440 V	32 / 440 V		
Rated operational current for AC-21 acc. to IEC/EN 60947-3 — Switching of resistive loads including moderate overloads	I _e	A	20 / 440 V	25 / 440 V	32 / 440 V	20 / 440 V	25 / 440 V	32 / 440 V		
Rated operational current for AC-22 acc. to IEC/EN 60947-3			20 / 230 V	25 / 230 V	32 / 230 V	20 / 230 V	25 / 230 V	32 / 230 V		
Switching of mixed resistive and inductive loads, including moderate overloads	I _e	A	16 / 440 V	20 / 440 V	25 / 440 V	16 / 440 V	20 / 440 V	25 / 440 V		
Rated operational current for AC-23 acc. to IEC/EN 60947-3 Switching of motor loads or other highly inductive loads	I _e	A	16 / 230 V / 1-phase	20 / 230 V / 1-phase	25 / 230 V / 1-phase	16 / 230 V / 1-phase	20 / 230 V / 1-phase	25 / 230 V / 1-phase		
						16 / 230 V / 3-phase	20 / 230 V / 3-phase	25 / 230 V / 3-phase		
						16 / 400 V / 3-phase	20 / 400 V / 3-phase	25 / 400 V / 3-phase		

Description

REMOTE SWITCHING
AND AUTOMATIC CONTROL:

- /// Lightning
- /// Electric heating
- /// Electric motors
- /// Electric equipment

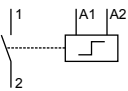
ADVANCED OPERATION:

- /// Impulse control
- /// Manual control

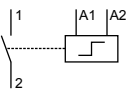
OTHER BENEFITS:

- /// Small switch on coil consumption
- /// No hold coil consumption
- /// Wide application
- /// Mounting on 35 mm rail
- /// Sealing terminal covers

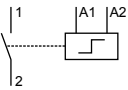
1-pole, 1 module (17,5 mm), 20A (AC1, 440V)

Type	Code No.	Wiring diagram		
RBS220-10-230V AC	002464100		130	8
RBS220-10-24V AC	002464112		130	8
RBS220-10-12V AC	002464162		130	8

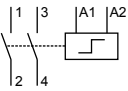
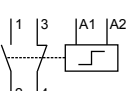
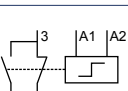
1-pole, 1 module (17,5 mm), 25A (AC1, 440V)

Type	Code No.	Wiring diagram		
RBS225-10-230V AC	002464101		130	8
RBS225-10-24V AC	002464113		130	8

1-pole, 1 module (17,5 mm), 32A (AC1, 440V)

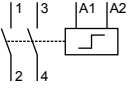
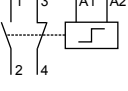
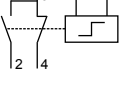
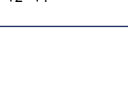
Type	Code No.	Wiring diagram		
RBS232-10-230V AC	002464102		130	8
RBS232-10-24V AC	002464114		130	8

2-pole, 1 module (17,5 mm), 20A (AC1, 440V)

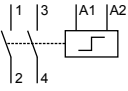
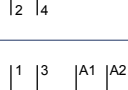
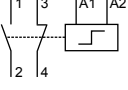
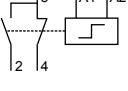
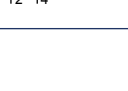
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RBS220-20-230V AC	002464103		130	8
RBS220-20-24V AC	002464115		130	8
RBS220-11-230V AC	002464106		130	8
RBS220-11-24V AC	002464118		130	8
RBS220-1C-230V AC	002464109		130	8
RBS220-1C-24V AC	002464121		130	8



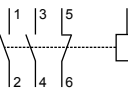
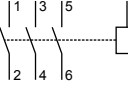
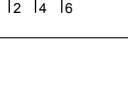
2-pole, 1 module (17,5 mm), 25A (AC1, 440V)

Type	Code No.	Wiring diagram	 g	
RBS225-20-230V AC	002464104		130	8
RBS225-20-24V AC	002464116		130	8
RBS225-11-230V AC	002464107		130	8
RBS225-11-24V AC	002464119		130	8
RBS225-1C-230V AC	002464110		130	8
RBS225-1C-24V AC	002464122		130	8

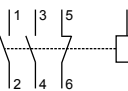
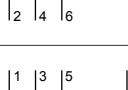
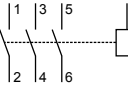
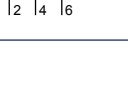
2-pole, 1 module (17,5 mm), 32A (AC1, 440V)

Type	Code No.	Wiring diagram	 g	
RBS232-20-230V AC	002464105		130	8
RBS232-20-24V AC	002464117		130	8
RBS232-11-230V AC	002464108		130	8
RBS232-11-24V AC	002464120		130	8
RBS232-1C-230V AC	002464111		130	8
RBS232-1C-24V AC	002464123		130	8

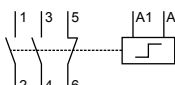
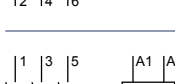
3-pole, 2 modules (35 mm), 20A (AC1, 440V)

Type	Code No.	Wiring diagram	 g	
RBS420-21-230V AC	002464127		200	4
RBS420-21-24V AC	002464145		200	4
RBS420-30-230V AC	002464130		200	4
RBS420-30-24V AC	002464148		200	4

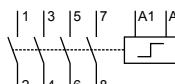
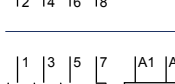
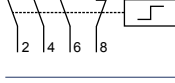
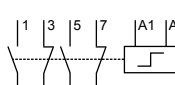
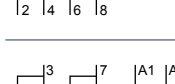
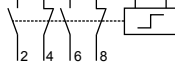
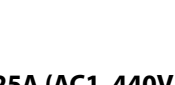
3-pole, 2 modules (35 mm), 25A (AC1, 440V)

Type	Code No.	Wiring diagram	 g	
RBS425-21-230V AC	002464128		200	4
RBS425-21-24V AC	002464146		200	4
RBS425-30-230V AC	002464131		200	4
RBS425-30-24V AC	002464149		200	4

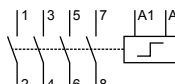
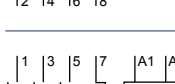
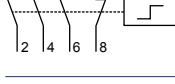
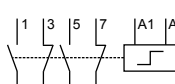
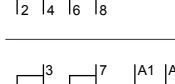
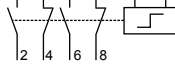
3-pole, 2 modules (35 mm), 32A (AC1, 440V)

Type	Code No.	Wiring diagram		
RBS432-21-230V AC	002464129		200	4
RBS432-21-24V AC	002464147		200	4
RBS432-30-230V AC	002464132		200	4
RBS432-30-24V AC	002464150		200	4

**4-pole, 2 modules (35 mm), 20A (AC1, 440V)**

Type	Code No.	Wiring diagram		
RBS420-40-230V AC	002464124		200	4
RBS420-40-24V AC	002464142		200	4
RBS420-31-230V AC	002464133		200	4
RBS420-31-24V AC	002464151		200	4
RBS420-22-230V AC	002464136		200	4
RBS420-22-24V AC	002464154		200	4
RBS420-2C-230V AC	002464139		200	4
RBS420-2C-24V AC	002464157		200	4

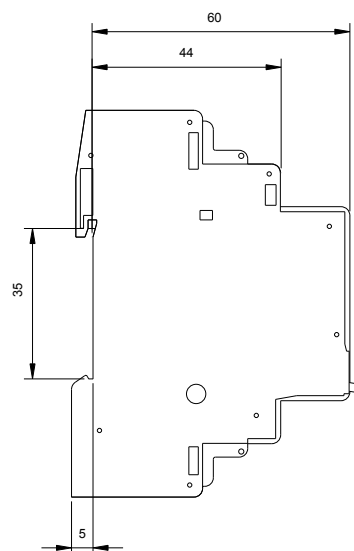
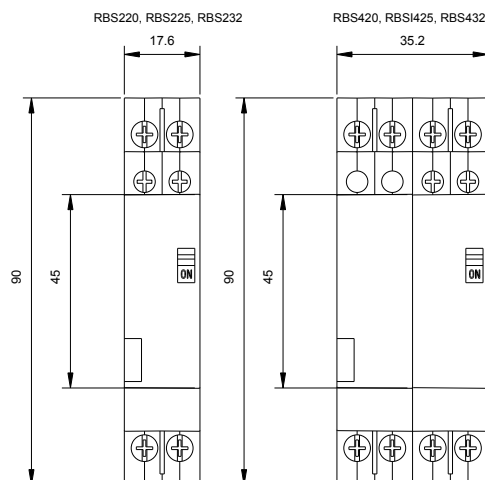
4-pole, 2 modules (35 mm), 25A (AC1, 440V)

Type	Code No.	Wiring diagram		
RBS425-40-230V AC	002464125		200	4
RBS425-40-24V AC	002464143		200	4
RBS425-31-230V AC	002464134		200	4
RBS425-31-24V AC	002464152		200	4
RBS425-22-230V AC	002464137		200	4
RBS425-22-24V AC	002464155		200	4
RBS425-2C-230V AC	002464140		200	4
RBS425-2C-24V AC	002464158		200	4

4-pole, 2 modules (35 mm), 32A (AC1, 440V)

Type	Code No.	Wiring diagram	g	
RBS432-40-230V AC	002464126		200	4
RBS432-40-24V AC	002464144		200	4
RBS432-31-230V AC	002464135		200	4
RBS432-31-24V AC	002464153		200	4
RBS432-22-230V AC	002464138		200	4
RBS432-22-24V AC	002464156		200	4
RBS432-2C-230V AC	002464141		200	4
RBS432-2C-24V AC	002464159		200	4

Dimensions

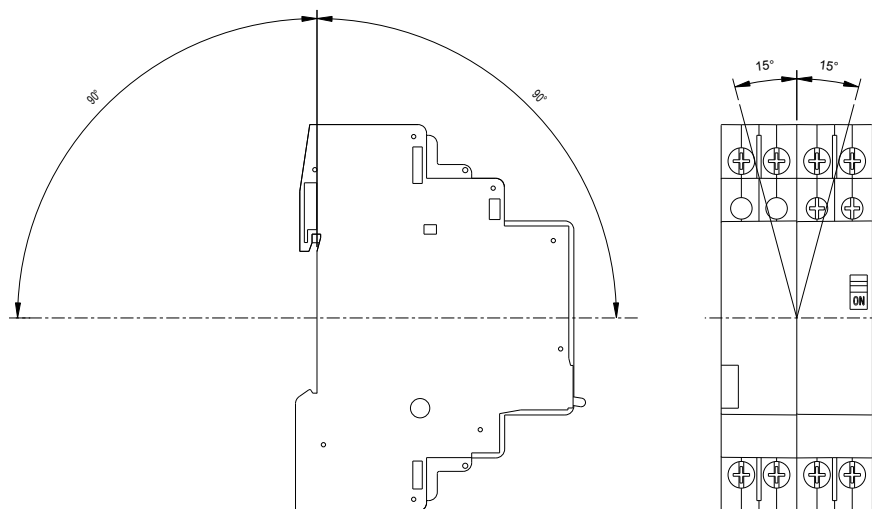


Sealing cover

Type	Code No.	g	
SC	002464160	3	2

*Size of one module - for covering 2-module sized RBS two pcs are needed, one for each side

Mounting position



Technical data

Type			RBS220	RBS225	RBS232	RBS420	RBS425	BI432
Rated operational current for AC-3 acc. to IEC/EN 60947-4-1 Squirrel-cage motors: starting, switching off motors during running	I_e	A	7 / 230 V / 1-phase	8 / 230 V / 1-phase	10 / 230 V / 1-phase	7 / 230 V / 1-phase 6,3 / 230 V / 3-phase 6,6 / 400 V / 3-phase	8 / 230 V / 1-phase 8,7 V / 230 V / 3-phase 8,5 / 400 V / 3-phase	10 / 230 V / 1-phase 11,5 / 230 V / 3-phase 11,3 / 400 V / 3-phase
Rated operational current for AC-7b acc. to IEC/EN 61095 Motor- loads for household applications	I_e	A	7 / 230 V / 1-phase	8 / 230 V / 1-phase	10 / 230 V / 1-phase	7 / 230 V / 1-phase 6,3 / 230 V / 3-phase 6,6 / 400 V / 3-phase	8 / 230 V / 1-phase 8,7 V / 230 V / 3-phase 8,5 / 400 V / 3-phase	10 / 230 V / 1-phase 11,5 / 230 V / 3-phase 11,3 / 400 V / 3-phase
Rated operational current for AC-6a acc. to IEC/EN 60947-4-1 Switching of transformers having inrush current peaks of not more than 30 times peak of rated current	I_e	A	3 / 230 V 1,5 / 400 V	3,6 / 230 V 1,8 / 400 V	4,5 / 230 V 2,2 / 400 V	3 / 230 V 1,5 / 400 V	3,6 / 230 V 1,8 / 400 V	4,5 / 230 V 2,2 / 400 V
Rated operational current for AC-6b acc. to IEC/EN 60947-4-1 — Switching of capacitor banks	C	μF	100 μF / 230 V					
Rated operational current for DC-1 acc. to IEC/EN 60947-4-1 — Non-inductive or slightly inductive loads, resistance furnances	I_e	A	20 / 24 V / 1p	25 / 24 V / 1p	32 / 24 V / 1p	20 / 24 V / 1p	25 / 24 V / 1p	32 / 24 V / 1p
Rated operational current for DC-3 acc. to IEC/EN 60947-4-1 — Shunt-motors: starting, plugging, inching	I_e	A	10 / 24 V / 1p	15 / 24 V / 1p	25 / 24 V / 1p	10 / 24 V / 1p	15 / 24 V / 1p	25 / 24 V / 1p
Rated operational current for DC-5 acc. to IEC/EN 60947-4-1 — Series-motors: starting, plugging, inching	I_e	A	10 / 24 V / 1p	16 / 24 V / 1p	20 / 24 V / 1p	10 / 24 V / 1p	16 / 24 V / 1p	20 / 24 V / 1p
Rated operational current for DC-21 acc. to IEC/EN 60947-3 — Switching of resistive loads including moderate overloads	I_e	A	20 / 24 V / 1p	25 / 24 V / 1p	32 / 24 V / 1p	20 / 24 V / 1p	25 / 24 V / 1p	32 / 24 V / 1p
Rated operational current for DC-22 acc. to IEC/EN 60947-3 — Switching of mixed resistive and inductive loads, including moderate overloads	I_e	A	16 / 24 V / 1p	20 / 24 V / 1p	25 / 24 V / 1p	16 / 24 V / 1p	20 / 24 V / 1p	25 / 24 V / 1p
Rated operational current for DC-23 acc. to IEC/EN 60947-3 — Switching of highly inductive loads (e.g. series motors)	I_e	A	10 / 24 V / 1p	16 / 24 V / 1p	20 / 24 V / 1p	10 / 24 V / 1p	16 / 24 V / 1p	20 / 24 V / 1p
Rated operational current for AC-5a acc. to IEC/EN 60947-4-1 — Switching of electric discharge lamp controls	I_e	A	16 / 230 V					
Rated operational current for AC-5b acc. to IEC/EN 60947-4-1 — Switching of incandescent lamps	I_e	A	10 / 230 V					
Rated operational current for fluorescent lamps acc. to IEC/EN 60669-2-2	I_e	A	16 / 230 V					
Fluorescent / energy saving / compact lamps with electronic control gear	I_e	A	2 / 230 V					
Electrical endurance for all utilization categories			105					
Terminal capacity for main circuit	S	mm ²	1...10 rigid / flexible					
Screw for main circuit			M4					
Screw-head for main circuit			(±) PZ2					
Tightening torque for main circuit		Nm	1,2					
Terminal capacity for control circuit	S	mm ²	1...4 rigid / flexible					
Screw for control circuit			M3					
Screw-head for control circuit			(±) PZ1					
Tightening torque for control circuit		Nm	0,6					

Lamps' type	Power (P) [W]	Current (I) [A]	Capacitor (C) [μF]	Maximum number of lamps per pole at 230 V, 50 Hz			
				RBS216	RBS220, RBS420	RBS225, RBS425	RBS232, RBS432
Incandescent lamps and halogen lamps	11	0,05	-				
	15	0,07	-	133	133	167	233
	18	0,08	-	111	111	139	194
	20	0,09	-	100	100	125	175
	25	0,11	-	80	80	100	140
	28	0,12	-	71	71	89	125
	30	0,13	-	67	67	83	117
	33	0,14	-	61	61	76	106
	35	0,15	-	57	57	71	100
	40	0,17	-	50	50	63	88
	42	0,18	-	48	48	60	83
	46	0,2	-	43	43	54	76
	48	0,21	-	42	42	52	73
	50	0,22	-	40	40	50	70
	53	0,23	-	38	38	47	66
	57	0,25	-	35	35	44	61
	60	0,26	-	33	33	42	58
	70	0,3	-	29	29	36	50
	75	0,33	-	27	27	33	47
	77	0,34	-	26	26	32	45
	80	0,35	-	25	25	31	44
	100	0,44	-	20	20	25	35
	116	0,5	-	17	17	22	30
	120	0,52	-	17	17	21	29
	150	0,65	-	13	13	17	23
	160	0,7	-	13	13	16	22
	200	0,87	-	10	10	13	18
	205	0,89	-	10	10	12	17
	230	1	-	9	9	11	15
	300	1,3	-	7	7	8	12
	400	1,74	-	5	5	6	9
	500	2,17	-	4	4	5	7
	750	3,26	-	3	3	3	5
	1000	4,35	-	2	2	3	4
	1500	6,52	-	1	1	2	2
	2000	8,7	-	1	1	1	2
Transformators for low-voltage halogen lamps (electromagnetic and electronic)	10	0,04	-	100	100	200	300
	20	0,09	-	50	75	100	150
	30	0,13	-	33	50	67	100
	40	0,17	-	25	38	50	75
	50	0,22	-	20	30	40	60
	60	0,26	-	17	25	33	50
	70	0,3	-	14	21	29	43
	80	0,35	-	13	19	25	38
	90	0,39	-	11	17	22	33
	100	0,44	-	10	15	20	30
	150	0,65	-	7	10	13	20
	200	0,87	-	5	8	10	15
	300	1,3	-	3	5	7	10
	400	1,74	-	3	4	5	8

Lamps' type	Power (P) [W]	Current (I) [A]	Capacitor (C) [μF]	Maximum number of lamps per pole at 230 V, 50 Hz			
				RBS216	RBS220, RBS420	RBS225, RBS425	RBS232, RBS432
Compact fluorescent lamps with internal ballasts	3	0,04	-	133	167	250	333
	5	0,06	-	80	100	150	200
	6	0,07	-	67	83	125	167
	7	0,08	-	57	71	107	143
	8	0,09	-	50	63	94	125
	9	0,1	-	44	56	83	111
	10	0,11	-	40	50	75	100
	11	0,12	-	36	45	68	91
	12	0,13	-	33	42	63	83
	13	0,14	-	31	38	58	77
	14	0,15	-	29	36	54	71
	15	0,16	-	27	33	50	67
	16	0,18	-	25	31	47	63
	17	0,19	-	24	29	44	59
	18	0,2	-	22	28	42	56
	20	0,21	-	20	25	38	50
	21	0,22	-	19	24	36	48
	22	0,23	-	19	23	34	45
	23	0,24	-	17	22	33	43
	24	0,25	-	17	21	31	42
	25	0,26	-	16	20	30	40
	26	0,27	-	15	19	29	38
	27	0,124	-	15	19	28	37
	30	0,15	-	13	17	25	33
	33	0,155	-	12	15	23	30
	35	0,164	-	11	14	21	29
	40	0,2	-	10	13	19	25
	50	0,24	-	8	10	15	20
	70	0,312	-	6	7	11	14
Compact fluorescent lamps with external electromagnetic ballasts - uncorrected	5	0,05	-	70	120	180	240
	2x5	0,07	-	50	86	129	171
	7	0,05	-	70	120	180	240
	2x7	0,07	-	50	86	129	171
	9	0,06	-	58	100	150	200
	2x9	0,08	-	44	75	113	150
	10	0,07	-	50	86	129	171
	11	0,08	-	44	75	113	150
	13	0,08	-	44	75	113	150
	16	0,1	-	35	60	90	120
	18	0,12	-	29	50	75	100
	2x18	0,21	-	17	29	43	57
	21	0,12	-	29	50	75	100
	22	0,2	-	18	30	45	60
	24	0,15	-	23	40	60	80
	26	0,15	-	23	40	60	80
	28	0,15	-	23	40	60	80
	32	0,22	-	16	27	41	55
	36	0,21	-	17	29	43	57
	38	0,21	-	17	29	43	57
	40	0,21	-	17	29	43	57
	58	0,32	-	11	19	28	38

Lamps' type	Power (P) [W]	Current (I) [A]	Capacitor (C) [μF]	Maximum number of lamps per pole at 230 V, 50 Hz			
				RBS216	RBS220, RBS420	RBS225, RBS425	RBS232, RBS432
Compast fluorescent lamps with external electromagnetic ballasts - parallel corrected	5	0,05	2	40	50	60	75
	2x5	0,07	2	40	50	60	75
	7	0,05	2	40	50	60	75
	2x7	0,07	2	40	50	60	75
	9	0,06	2	40	50	60	75
	2x9	0,08	2	40	50	60	75
	10	0,07	2	40	50	60	75
	11	0,08	2	40	50	60	75
	13	0,08	2	40	50	60	75
	16	0,1	2	40	50	60	75
	18	0,12	4,5	18	22	27	33
	2x18	0,21	4	20	25	30	38
	21	0,12	3	27	33	40	50
	22	0,2	4,5	18	22	27	33
	24	0,15	4,5	18	22	27	33
	26	0,15	4,5	18	22	27	33
	28	0,15	3,5	23	29	34	43
	32	0,22	4	20	25	30	38
	36	0,21	4,5	18	22	27	33
	38	0,21	4,5	18	22	27	33
	40	0,21	4,5	18	22	27	33
	58	0,32	7	11	14	17	21

Lamps' type	Power (P) [W]	Current (I) [A]	Capacitor (C) [μF]	Maximum number of lamps per pole at 230 V, 50 Hz			
				RBS216	RBS220, RBS420	RBS225, RBS425	RBS232, RBS432
Compact fluorescent lamps with external electronic ballasts	5	0,03	-	100	200	300	400
	7	0,04	-	75	150	225	300
	9	0,05	-	60	120	180	240
	2x9	0,09	-	33	67	100	133
	10	0,05	-	60	120	180	240
	2x10	0,09	-	33	67	100	133
	11	0,07	-	43	86	129	171
	2x11	0,12	-	25	50	75	100
	13	0,07	-	43	86	129	171
	2x13	0,12	-	25	50	75	100
	14	0,08	-	38	75	113	150
	2x14	0,15	-	20	40	60	80
	16	0,07	-	43	86	129	171
	17	0,1	-	30	60	90	120
	2x17	0,18	-	17	33	50	67
	18	0,09	-	33	67	100	133
	2x18	0,17	-	18	35	53	71
	22	0,13	-	23	46	69	92
	2x22	0,21	-	14	29	43	57
	24	0,12	-	25	50	75	100
	2x24	0,23	-	13	26	39	52
	3x24	0,32	-	9	19	28	38
	4x24	0,43	-	9	14	21	28
	26	0,12	-	25	50	75	100
	2x26	0,24	-	13	25	38	50
	28	0,14	-	21	43	64	86
	32	0,16	-	19	38	56	75
	2x32	0,31	-	10	19	29	39
	36	0,16	-	19	38	56	75
	2x36	0,31	-	10	19	29	39
	38	0,17	-	18	35	53	71
	2x38	0,35	-	9	17	26	34
	40	0,2	-	15	30	45	60
	2x40	0,39	-	8	15	23	31
	42	0,2	-	15	30	45	60
	2x42	0,41	-	7	15	22	29
	55	0,27	-	11	22	33	44
	2x55	0,52	-	6	12	17	23
	57	0,28	-	11	21	32	43
	2x57	0,57	-	5	11	16	21
	60	0,31	-	10	19	29	39
	2x60	0,61	-	5	10	15	20
	70	0,34	-	9	18	26	35
	80	0,38	-	8	16	24	32
	2x80	0,76	-	4	8	12	16
	85	0,42	-	7	14	21	29
	100	0,46	-	7	13	20	26
	120	0,58	-	5	10	16	21
	150	0,69	-	4	9	13	17

Lamps' type	Power (P) [W]	Current (I) [A]	Capacitor (C) [μF]	Maximum number of lamps per pole at 230 V, 50 Hz			
				RBS216	RBS220, RBS420	RBS225, RBS425	RBS232, RBS432
Fluorescent lamps with external electromagnetic ballasts - uncorrected	4	0,17	-	94	94	94	94
	6	0,16	-	100	100	100	100
	8	0,15	-	107	107	107	107
	10	0,17	-	94	94	94	94
	11	0,16	-	100	100	100	100
	13	0,17	-	94	94	94	94
	14	0,4	-	40	40	40	40
	15	0,33	-	48	48	48	48
	16	0,2	-	80	80	80	80
	18	0,37	-	43	43	43	43
	20	0,38	-	42	42	42	42
	22	0,37	-	43	43	43	43
	25	0,29	-	55	55	55	55
	30	0,37	-	43	43	43	43
	32	0,43	-	37	37	37	37
	36	0,43	-	37	37	37	37
	38	0,43	-	37	37	37	37
	40	0,43	-	37	37	37	37
	58	0,67	-	24	24	24	24
	65	0,67	-	24	24	24	24
	75	0,67	-	24	24	24	24
	80	0,8	-	20	20	20	20
	85	0,8	-	20	20	20	20
	100	0,96	-	17	17	17	17
	125	0,94	-	17	17	17	17
Fluorescent lamps with external electromagnetic ballasts - parallel corrected	4	0,09	2	40	50	60	75
	6	0,08	2	40	50	60	75
	8	0,08	2	40	50	60	75
	10	0,09	2	40	50	60	75
	11	0,08	2	40	50	60	75
	13	0,09	2	40	50	60	75
	14	0,2	4,5	18	22	27	33
	15	0,17	4,5	18	22	27	33
	16	0,1	2,5	32	40	48	60
	18	0,19	4,5	18	22	27	33
	20	0,19	4,5	18	22	27	33
	22	0,19	5	16	20	24	30
	25	0,15	3,5	23	29	34	43
	30	0,24	4,5	18	22	27	33
	32	0,29	5	16	20	24	30
	36	0,29	4,5	18	22	27	33
	38	0,29	4,5	18	22	27	33
	40	0,29	4,5	18	22	27	33
	58	0,46	7	11	14	17	21
	65	0,46	7	11	14	17	21
	75	0,46	6	13	17	20	25
	80	0,57	7	11	14	17	21
	85	0,57	8	10	13	15	19
	100	0,66	10	8	10	12	15
	125	0,65	18	4	6	7	8

Lamps' type	Power (P) [W]	Current (I) [A]	Capacitor (C) [μF]	Maximum number of lamps per pole at 230 V, 50 Hz			
				RBS216	RBS220, RBS420	RBS225, RBS425	RBS232, RBS432
Series circuit for two fluorescent lamps with external electromagnetic ballast - uncorrected	2x4	0,34	-	47	47	47	47
	2x6	0,32	-	50	50	50	50
	2x8	0,3	-	53	53	53	53
	2x10	0,34	-	47	47	47	47
	2x11	0,32	-	50	50	50	50
	2x13	0,34	-	47	47	47	47
	2x14	0,8	-	20	20	20	20
	2x15	0,66	-	24	24	24	24
	2x16	0,4	-	40	40	40	40
	2x18	0,74	-	22	22	22	22
	2x20	0,76	-	21	21	21	21
	2x22	0,74	-	22	22	22	22
	2x25	0,58	-	28	28	28	28
	2x30	0,74	-	22	22	22	22
	2x32	0,86	-	19	19	19	19
	2x36	0,86	-	19	19	19	19
	2x38	0,86	-	19	19	19	19
	2x40	0,86	-	19	19	19	19
	2x58	1,34	-	12	12	12	12
	2x65	1,34	-	12	12	12	12
	2x75	1,34	-	12	12	12	12
	2x80	1,6	-	10	10	10	10
	2x85	1,6	-	10	10	10	10
	2x100	1,92	-	8	8	8	8
	2x125	1,88	-	9	9	9	9
Series circuit for two fluorescent lamps with external electromagnetic ballast - parallel corrected	2x4	0,17	2	40	50	60	75
	2x6	0,16	2	40	50	60	75
	2x8	0,15	2	40	50	60	75
	2x10	0,17	2	40	50	60	75
	2x11	0,16	2	40	50	60	75
	2x13	0,17	2	40	50	60	75
	2x14	0,4	4,5	18	22	27	33
	2x15	0,33	4,5	18	22	27	33
	2x16	0,2	2,5	32	40	48	60
	2x18	0,37	4,5	18	22	27	33
	2x20	0,38	4,5	18	22	27	33
	2x22	0,37	5	16	20	24	30
	2x25	0,29	3,5	23	29	34	43
	2x30	0,37	4,5	18	22	27	33
	2x32	0,43	5	16	20	24	30
	2x36	0,43	4,5	18	22	27	33
	2x38	0,43	4,5	18	22	27	33
	2x40	0,43	4,5	18	22	27	33
	2x58	0,67	7	11	14	17	21
	2x65	0,67	7	11	14	17	21
	2x75	0,67	6	13	17	20	25
	2x80	0,8	7	11	14	17	21
	2x85	0,8	8	10	13	15	19
	2x100	0,96	10	8	10	12	15
	2x125	0,94	18	4	6	7	8
Lead-lag circuit for fluorescent lamps with external electromagnetic ballasts - series corrected	2x18	0,26	2,7	62	62	62	62
	2x36	0,48	4,5	33	33	33	33
	2x40	0,48	4,5	33	33	33	33
	2x58	0,78	7	21	21	21	21
	2x65	0,78	7	21	21	21	21
	2x80	0,96	9	17	17	17	17
	2x85	0,96	9	17	17	17	17
	2x125	1,2	18	13	13	13	13

Lamps' type	Power (P) [W]	Current (I) [A]	Capacitor (C) [μF]	Maximum number of lamps per pole at 230 V, 50 Hz			
				RBS216	RBS220, RBS420	RBS225, RBS425	RBS232, RBS432
Fluorescent lamps with external electronic ballasts	4	0,03	-	100	200	300	400
	6	0,033	-	91	182	273	364
	2x6	0,06	-	50	100	150	200
	8	0,04	-	75	150	225	300
	2x8	0,08	-	38	75	113	150
	10	0,05	-	60	120	180	240
	2x10	0,09	-	33	67	100	133
	11	0,06	-	50	100	150	200
	13	0,07	-	43	86	129	171
	14	0,08	-	38	75	113	150
	2x14	0,15	-	20	40	60	80
	3x14	0,21	-	14	29	43	57
	4x14	0,28	-	11	21	32	43
	15	0,08	-	38	75	113	150
	2x15	0,13	-	23	46	69	92
	16	0,07	-	43	86	129	171
	2x16	0,14	-	21	43	64	86
	3x16	0,2	-	15	30	45	60
	4x16	0,28	-	11	21	32	43
	18	0,09	-	33	67	100	133
	2x18	0,17	-	18	35	53	71
	3x18	0,24	-	13	25	38	50
	4x18	0,31	-	10	19	29	39
	19	0,11	-	27	55	82	109
	2x19	0,22	-	14	27	41	55
	20	0,11	-	27	55	82	109
	2x20	0,22	-	14	27	41	55
	21	0,11	-	27	55	82	109
	2x21	0,22	-	14	27	41	55
	22	0,11	-	27	55	82	109
	2x22	0,23	-	13	26	39	52
	24	0,12	-	25	50	75	100
	2x24	0,22	-	14	27	41	55
	3x24	0,33	-	9	18	27	36
	4x24	0,43	-	7	14	21	28
	25	0,15	-	20	40	60	80
	2x25	0,28	-	11	21	32	43
	28	0,14	-	21	43	64	86
	2x28	0,27	-	11	22	33	44
	30	0,14	-	21	43	64	86
	2x30	0,27	-	11	22	33	44
	32	0,17	-	18	35	53	71

Lamps' type	Power (P) [W]	Current (I) [A]	Capacitor (C) [μF]	Maximum number of lamps per pole at 230 V, 50 Hz			
				RBS216	RBS220, RBS420	RBS225, RBS425	RBS232, RBS432
Fluorescent lamps with external electronic ballasts	2x32	0,35	-	9	17	26	34
	34	0,17	-	18	35	53	71
	2x34	0,35	-	9	17	26	34
	35	0,17	-	18	35	53	71
	2x35	0,34	-	9	18	26	35
	36	0,16	-	19	38	56	75
	2x36	0,31	-	10	19	29	39
	3x36	0,46	-	7	13	20	26
	38	0,15	-	20	40	60	80
	2x38	0,31	-	10	19	29	39
	39	0,19	-	16	32	47	63
	2x39	0,36	-	8	17	25	33
	40	0,21	-	14	29	43	57
	2x40	0,42	-	7	14	21	29
	45	0,24	-	13	25	38	50
	2x45	0,46	-	7	13	20	26
	49	0,24	-	13	25	38	50
	2x49	0,46	-	7	13	20	26
	50	0,25	-	12	24	36	48
	2x50	0,48	-	6	13	19	25
	51	0,22	-	14	27	41	55
	2x51	0,42	-	7	14	21	29
	54	0,26	-	12	23	35	46
	2x54	0,52	-	6	12	17	23
	55	0,28	-	11	21	32	43
	2x55	0,55	-	5	11	16	22
	58	0,25	-	12	24	36	48
	2x58	0,48	-	6	13	19	25
	65	0,25	-	12	24	36	48
	2x65	0,48	-	6	13	19	25
	70	0,3	-	10	20	30	40
	2x70	0,57	-	5	11	16	21
	73	0,38	-	8	16	24	32
	2x73	0,7	-	4	9	13	17
	80	0,4	-	8	15	23	30
	2x80	0,76	-	4	8	12	16
High pressure mercury vapour lamps with external electromagnetic ballasts - uncorrected	50	0,6	-	17	27	27	27
	80	0,8	-	13	20	20	20
	125	1,2	-	8	13	13	13
	250	2,2	-	5	7	7	7
	400	3,3	-	3	5	5	5
	700	5,4	-	2	3	3	3
	1000	7,5	-	1	2	2	2
High pressure mercury vapour lamps with external electromagnetic ballasts - parallel corrected	50	0,3	7	11	14	17	21
	80	0,4	8	10	13	15	19
	125	0,6	10	8	10	12	15
	250	1,2	18	4	6	7	8
	400	1,8	25	3	4	5	6
	700	3,4	40	2	3	3	4
	1000	4,8	60	1	2	2	3

Lamps' type	Power (P) [W]	Current (I) [A]	Capacitor (C) [μF]	Maximum number of lamps per pole at 230 V, 50 Hz			
				RBS216	RBS220, RBS420	RBS225, RBS425	RBS232, RBS432
High pressure mercury vapour lamps which do not require ballasts	160	0,8	-	10	11	14	20
	250	1,2	-	6	7	9	13
	500	2,4	-	3	4	5	7
Metal halide lamps with external electromagnetic ballasts - uncorrected	35	0,5	-	16	32	32	32
	70	1	-	8	16	16	16
	100	1,2	-	7	13	13	13
	150	1,8	-	4	9	9	9
	250	3	-	3	5	5	5
	400	4,6	-	2	3	3	3
	600	6,2	-	1	3	3	3
	1000	9,7	-	1	2	2	2
	2000	12,2	-	0	1	1	1
	35	0,23	6	13	17	20	25
Metal halide lamps with external electromagnetic ballasts - parallel corrected	70	0,42	12	7	8	10	13
	100	0,55	12	7	8	10	13
	150	0,77	20	4	5	6	8
	250	1,26	32	3	3	4	5
	400	2	45	2	2	3	3
	600	3	65	1	2	2	2
	1000	5	85	0	1	1	2
	2000	10,5	125	0	0	1	1
Metal halide lamps with external electronic ballasts	20	0,11	-	27	55	82	109
	35	0,21	-	14	29	43	57
	2x35	0,38	-	8	16	24	32
	50	0,29	-	10	21	31	41
	70	0,38	-	8	16	24	32
	2x70	0,71	-	4	8	13	17
	100	0,56	-	5	11	16	21
	150	0,72	-	4	8	13	17
	250	1,3	-	2	5	7	9
	400	2	-	1	3	5	6
	1000	5	-	0	1	2	2
	2000	6	-	0	1	2	2
	35	0,53	-	25	30	30	30
High pressure sodium vapour lamps with external electromagnetic ballasts - uncorrected	50	0,8	-	16	20	20	20
	70	1	-	13	16	16	16
	100	1,2	-	11	13	13	13
	150	1,8	-	7	9	9	9
	250	3	-	4	5	5	5
	400	4,4	-	3	4	4	4
	600	6,2	-	2	2	2	2
	1000	10,3	-	1	1	1	1

Lamps' type	Power (P) [W]	Current (I) [A]	Capacitor (C) [μF]	Maximum number of lamps per pole at 230 V, 50 Hz			
				RBS216	RBS220, RBS420	RBS225, RBS425	RBS232, RBS432
High pressure sodium vapour lamps with external electromagnetic ballasts - parallel corrected	35	0,22	6	13	17	20	25
	50	0,3	8	10	13	15	19
	70	0,4	12	7	8	10	13
	100	0,55	12	7	8	10	13
	150	0,77	20	4	5	6	8
	250	1,26	32	3	3	4	5
	400	2	45	2	2	3	3
	600	2,9	65	1	1	2	2
	1000	5,1	100	0	0	1	1
High pressure sodium vapour lamps with external electronic ballasts	35	0,21	-	14	29	43	57
	50	0,25	-	12	24	36	48
	70	0,38	-	8	16	24	32
	100	0,56	-	5	11	16	21
	150	0,72	-	4	8	13	17
	250	1,3	-	2	5	7	9
	400	2	-	2	3	5	6
	600	3,1	-	1	2	3	4
	1000	5	-	0	1	2	2
Low pressure sodium vapour lamps with external electromagnetic ballasts - uncorrected	18	0,4	-	25	40	40	40
	35	0,6	-	15	27	27	27
	55	0,6	-	15	27	27	27
	90	0,9	-	10	18	18	18
	135	0,9	-	10	18	18	18
	180	0,9	-	10	18	18	18
Low pressure sodium vapour lamps with external electromagnetic ballasts - parallel corrected	18	0,35	5	16	20	24	30
	35	0,28	20	4	5	6	8
	55	0,35	20	4	5	6	8
	90	0,55	26	3	4	5	6
	135	0,8	40	2	3	3	4
	180	1	40	2	3	3	4
Low pressure sodium vapour lamps with ECG	35	0,16	-	19	38	56	75
	55	0,25	-	12	24	36	48
LED lamps	-	-	-	max. 2 A per pole	max. 6 A per pole	max. 9 A per pole	max. 12 A per pole
Power supplies for LEDs	-	-	-				