

Bistable switches RBS

Bistable Switch RBS

Description

REMOTE SWITCHING
AND AUTOMATIC CONTROL:

- Lighting
- Electric heating
- Electric motors
- Electric equipment

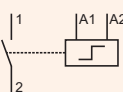
ADVANCED OPERATION:

- Impulse control
- Manual control

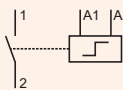
OTHER BENEFITS:

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

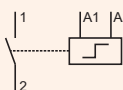
1-pole, 1 module (17,5 mm), 20A (AC1, 440V)

Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
RBS220-10-230V AC	002464100		130	8
RBS220-10-24V AC	002464112		130	8

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

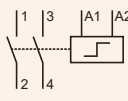
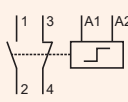
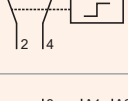
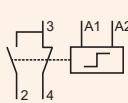
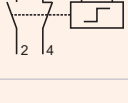
Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
RBS225-10-230V AC	002464101		130	8
RBS225-10-24V AC	002464113		130	8

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

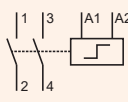
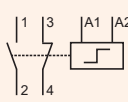
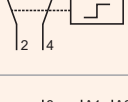
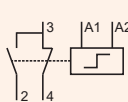
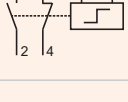
Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
RBS232-10-230V AC	002464102		130	8
RBS232-10-24V AC	002464114		130	8



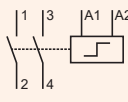
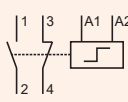
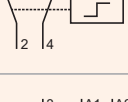
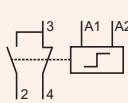
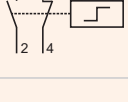
2-pole, 1 module (17,5 mm), 20A (AC1, 440V)

Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
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	Weight [g]	Packaging [pcs]
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	Weight [g]	Packaging [pcs]
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

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

Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
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	Weight [g]	Packaging [pcs]
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	Weight [g]	Packaging [pcs]
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	Weight [g]	Packaging [pcs]
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	Weight [g]	Packaging [pcs]
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)

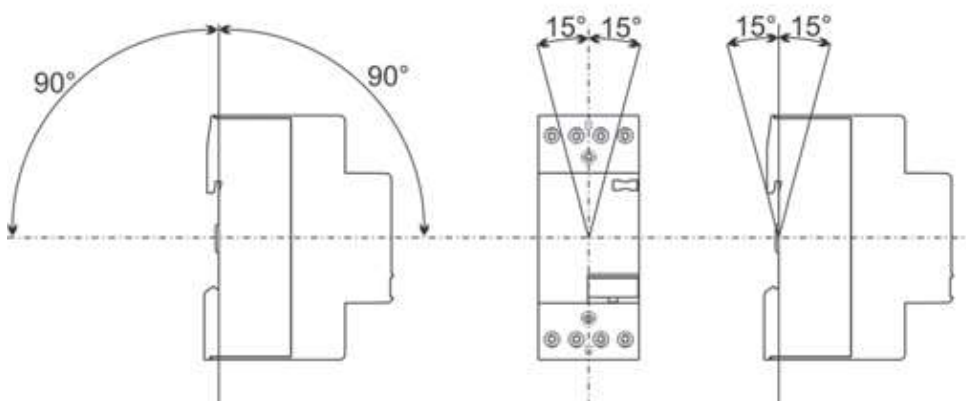
Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
RBS432-40-230V AC	002464126		200	4
RBS432-40-24V AC	002464144		200	4
RBS432-31-230V AC	002464135		200	4
RBS432-31-24V AC	002464153		200	4
RBS432-22-230V AC	002464138		200	4
RBS432-22-24V AC	002464156		200	4
RBS432-2C-230V AC	002464141		200	4
RBS432-2C-24V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

Sealing cover

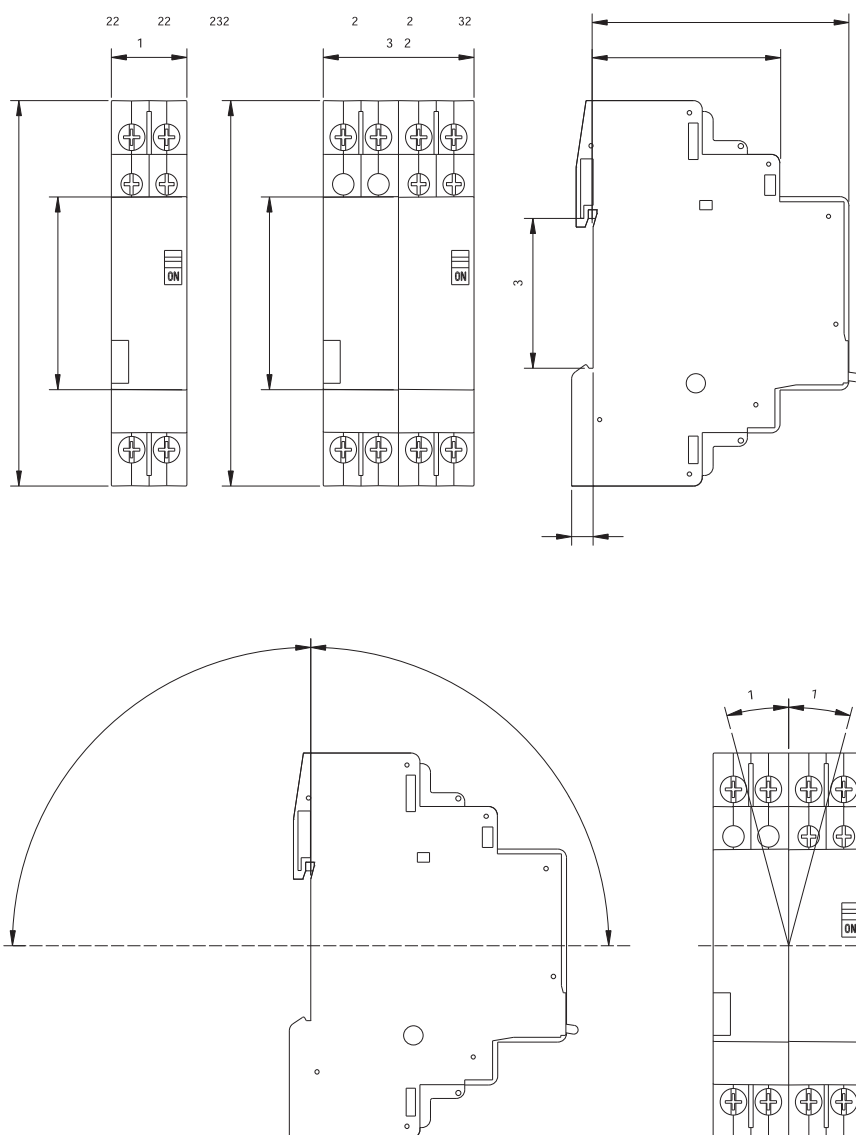
Type	Code No.	Weight [g]	Packaging [pcs]
SC	002464160	3	2

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

Mounting position



Bistable Switch RBS



Technical data

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 at +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	Uc	V	AC: 24, 230, other on request					
Rated frequency of control voltage	fc	Hz	50 / 60					
Range of control voltage	Uc	%	90...110					
Coil consumption — inrush		VA/W	18 / 13					
Coil consumption — hold		VA/W	9 / 4					
Min. impulse duration at Uc		ms	50					
Min. impulse duration at 0,85 Uc		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 Uc			1 hour					
Rated impulse voltage	Uimp	kV	4					
Thermal current	Ith	A	20	25	32	20	25	32
Rated insulation voltage	Ui	V	440					
Rated operational voltage	Ue	V	440					
Rated frequency	fe	Hz	50 / 60					
Rated operational current for cosφ = 0,6 acc. to IEC/EN 60669-2-2	Ie	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	Ie	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	Ie	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	Ie	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	Ie	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	Ie	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
Switching of motor loads or other highly inductive loads						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

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	Ie	A	7 / 230 V / 1-phase	8 / 230 V / 1-phase	10 / 230 V / 1-phase	7 / 230 V / 1-phase	8 / 230 V / 1-phase	10 / 230 V / 1-phase
						6,3 / 230 V / 3-phase	8,7 V / 230 V / 3-phase	11,5 / 230 V / 3-phase
						6,6 / 400 V / 3-phase	8,5 / 400 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	Ie	A	7 / 230 V / 1-phase	8 / 230 V / 1-phase	10 / 230 V / 1-phase	7 / 230 V / 1-phase	8 / 230 V / 1-phase	10 / 230 V / 1-phase
						6,3 / 230 V / 3-phase	8,7 V / 230 V / 3-phase	11,5 / 230 V / 3-phase
						6,6 / 400 V / 3-phase	8,5 / 400 V / 3-phase	11,3 / 400 V / 3-phase
Rated operational current for AC-6a acc. to IEC/EN 60947-4-1	Ie	A	3 / 230 V	3,6 / 230 V	4,5 / 230 V	3 / 230 V	3,6 / 230 V	4,5 / 230 V
Switching of transformers having inrush current peaks of not more than 30 times peak of rated current			1,5 / 400 V	1,8 / 400 V	2,2 / 400 V	1,5 / 400 V	1,8 / 400 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	Ie	A	20 / 24 V / 1 pole	25 / 24 V / 1 pole	32 / 24 V / 1 pole	20 / 24 V / 1 pole	25 / 24 V / 1 pole	32 / 24 V / 1 pole
Rated operational current for DC-3 acc. to IEC/EN 60947-4-1 — Shunt-motors: starting, plugging, inching	Ie	A	10 / 24 V / 1 pole	15 / 24 V / 1 pole	25 / 24 V / 1 pole	10 / 24 V / 1 pole	15 / 24 V / 1 pole	25 / 24 V / 1 pole
Rated operational current for DC-5 acc. to IEC/EN 60947-4-1 — Series-motors: starting, plugging, inching	Ie	A	10 / 24 V / 1 pole	16 / 24 V / 1 pole	20 / 24 V / 1 pole	10 / 24 V / 1 pole	16 / 24 V / 1 pole	20 / 24 V / 1 pole
Rated operational current for DC-21 acc. to IEC/EN 60947-3 — Switching of resistive loads including moderate overloads	Ie	A	20 / 24 V / 1 pole	25 / 24 V / 1 pole	32 / 24 V / 1 pole	20 / 24 V / 1 pole	25 / 24 V / 1 pole	32 / 24 V / 1 pole
Rated operational current for DC-22 acc. to IEC/EN 60947-3 — Switching of mixed resistive and inductive loads, including moderate overloads	Ie	A	16 / 24 V / 1 pole	20 / 24 V / 1 pole	25 / 24 V / 1 pole	16 / 24 V / 1 pole	20 / 24 V / 1 pole	25 / 24 V / 1 pole
Rated operational current for DC-23 acc. to IEC/EN 60947-3 — Switching of highly inductive loads (e.g. series motors)	Ie	A	10 / 24 V / 1 pole	16 / 24 V / 1 pole	20 / 24 V / 1 pole	10 / 24 V / 1 pole	16 / 24 V / 1 pole	20 / 24 V / 1 pole
Rated operational current for AC-5a acc. to IEC/EN 60947-4-1 — Switching of electric discharge lamp controls	Ie	A	16 / 230 V					
Rated operational current for AC-5b acc. to IEC/EN 60947-4-1 — Switching of incandescent lamps	Ie	A	10 / 230 V					
Rated operational current for fluorescent lamps acc. to IEC/EN 60669-2-2	Ie	A	16 / 230 V					
Fluorescent / energy saving / compact lamps with electronic control gear	Ie	A	2 / 230 V					
Electrical endurance for all utilization categories		cycles	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					