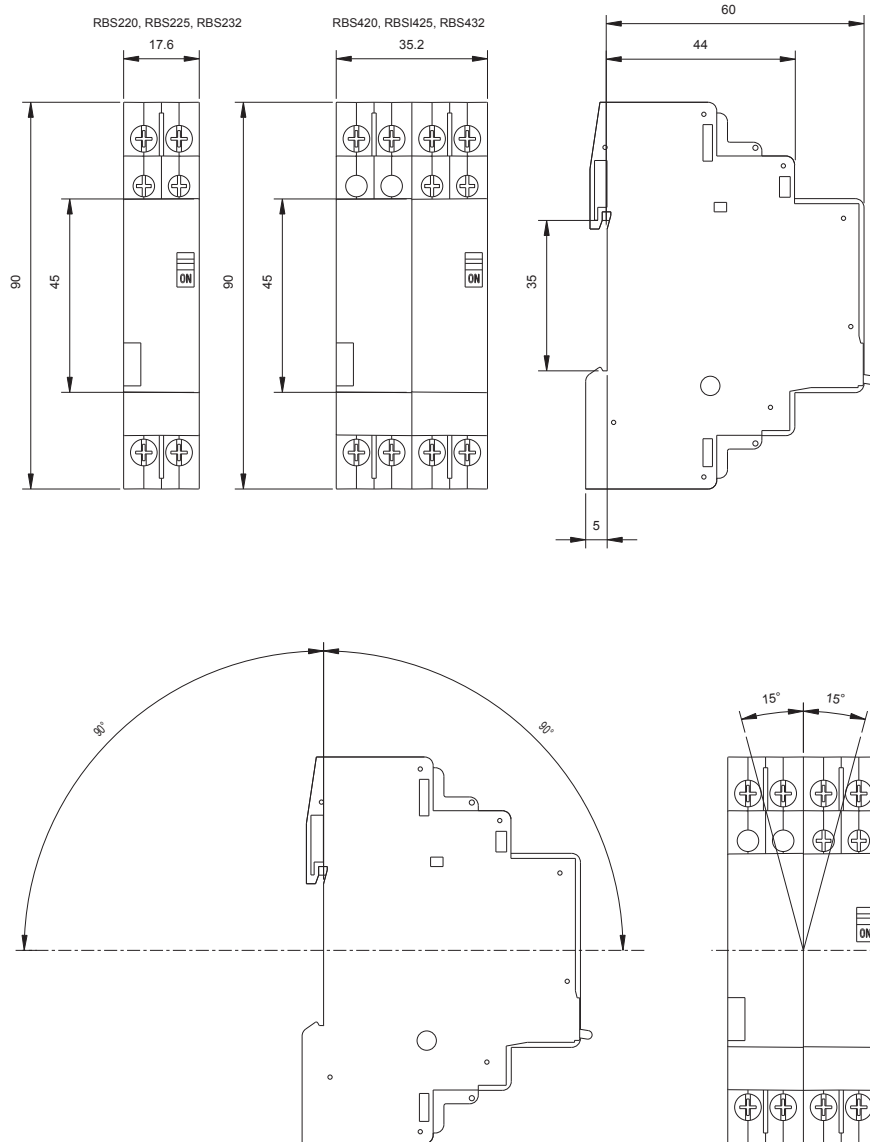


Bistable Switch RBS



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

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 $\cos\phi = 0,6$ 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	Ie	A 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	Ie	A 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	

Technical data

Technical data				RBS220	RBS225	RBS232	RBS420	RBS425	BI432
Type									
Rated operational current for AC-3 acc. to IEC/EN 60947-4-1 Squirrel-cage motors: starting, switching off motors during running	le	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	le	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	le	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 furnaces	le	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	le	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	le	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	le	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	le	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)	le	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	le	A		16 / 230 V					
Rated operational current for AC-5b acc. to IEC/EN 60947-4-1 – Switching of incandescent lamps	le	A		10 / 230 V					
Rated operational current for fluorescent lamps acc. to IEC/EN 60669-2-2	le	A		16 / 230 V					
Fluorescent / energy saving / compact lamps with electronic control gear	le	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					