

Bistable Switches 40 A and 63 A

BI240, BI440, BI263, BI463, BIN, BIC

NEW

NEW POWER FOR INSTALLATION

- Rated currents up to 63 A
- Rated voltage up to 440 V

INTENDED USE

- Household and similar fixed-electrical installations
- Industrial environment
- Public places

GREEN OPERATION

- Impulse control
- Manual control

RELIABILITY FUNCTION

- Central switching add-on module
- Auxiliary switch add-on module

OTHER BENEFITS

- Up to 99,9 % savings in control power
- Up to 30 % lower power dissipation per pole
- ON/OFF button for coil
- For switching of all kind of loads
- 2- and 4-poles versions with different combinations of contacts
- Mounting on 35 mm rail
- Sealing terminal covers



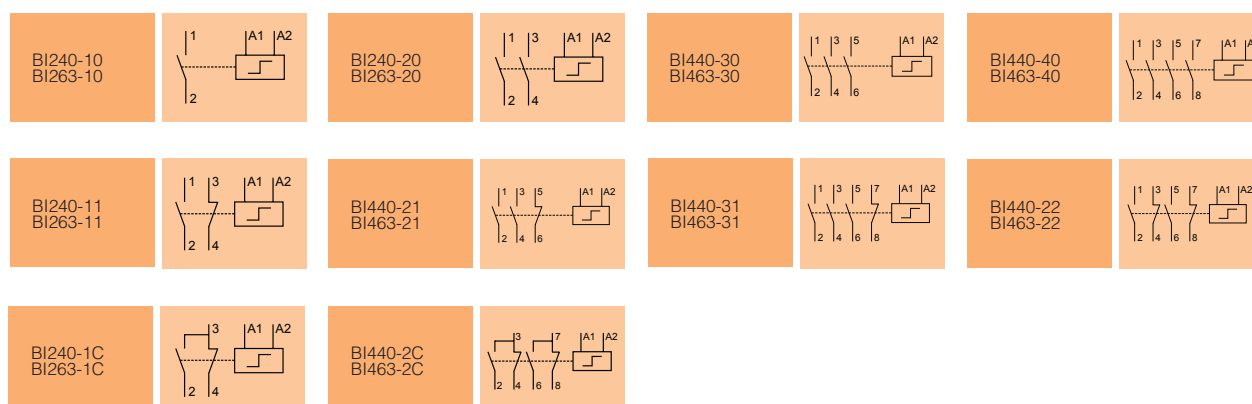
TECHNICAL DATA

Type		
Standards		
Manual control		
Control with impulse voltage		
Indication		
Protection degree accordance to IEC/EN 60529		
Module width (1 module = 17,5 mm)		
Ambient temperature		
Storage temperature		
Max. resistance to humidity		
Min. contact reliability		
Max. shock resistance accordance to IEC/EN 60068-2-27		
Max. vibration resistance accordance to IEC/EN 60068-2-6		
Min. distance of open contacts		I
Distance between contacts and coil		I
Mechanical endurance		C)
Max. back-up fuse for short-circuit protection (gG, gL)		
Power dissipation per pole		
Rated control voltages	U_c	
Rated frequency of control voltage	f_c	
Range of control voltage	U_c	
Coil consumption - inrush		V
Coil consumption - hold		V
Min. impulse duration at U_c		
Min. impulse duration at 0,9 U_c		
Min. duration between two impulses		
Max. number of impulses per minute		
Max. impulse duration at U_c		
Rated impulse voltage	U_{imp}	
Thermal current	I_{th}	
Rated insulation voltage	U_i	
Rated operational voltage	U_e	
Rated frequency	f_e	
Rated operational current for $\cos\varphi = 0,6$ acc. to IEC/EN 60669-2-2	I_e	
Rated operational current for AC-1 acc. to IEC/EN 60947-4-1 - Non-inductive or slightly inductive loads, resistance furnaces	I_e	
Rated operational current for AC-7a acc. to IEC/EN 61095 - Slightly inductive loads in household appliances and similar applications	I_e	
Rated operational current for AC-21 acc. to IEC/EN 60947-3 - Switching of resistive loads including moderate overloads	I_e	
Rated operational current for AC-22 acc. to IEC/EN 60947-3	I_e	
Switching of mixed resistive and inductive loads, including moderate overloads	I_e	
Rated operational current for AC-23 acc. to IEC/EN 60947-3	I_e	
Switching of motor loads or other highly inductive loads	I_e	
Rated operational current for AC-3 acc. to IEC/EN 60947-4-1	I_e	
Squirrel-cage motors: starting, switching off motors during running	I_e	
Rated operational current for AC-7b acc. to IEC/EN 61095	I_e	
Motor-loads for household applications	I_e	
Rated operational current for AC-6a acc. to IEC/EN 60947-4-1	I_e	
Switching of transformers having inrush current peaks of not more than 30 times peak of rated current	I_e	
Rated operational current for AC-6b acc. to IEC/EN 60947-4-1 - Switching of capacitor banks	C	
Rated operational current for DC-1 acc. to IEC/EN 60947-4-1 - Non-inductive or slightly inductive loads, resistance furnaces	I_e	
Rated operational current for DC-3 acc. to IEC/EN 60947-4-1 - Shunt-motors: starting, plugging, inching	I_e	
Rated operational current for DC-5 acc. to IEC/EN 60947-4-1 - Series-motors: starting, plugging, inching	I_e	
Rated operational current for DC-21 acc. to IEC/EN 60947-3 - Switching of resistive loads including moderate overloads	I_e	
Rated operational current for DC-22 acc. to IEC/EN 60947-3 - Switching of mixed resistive and inductive loads, including moderate overloads	I_e	
Rated operational current for DC-23 acc. to IEC/EN 60947-3 - Switching of highly inductive loads (e.g. series motors)	I_e	
Rated operational current for AC-5a acc. to IEC/EN 60947-4-1 - Switching of electric discharge lamp controls	I_e	
Rated operational current for AC-5b acc. to IEC/EN 60947-4-1 - Switching of incandescent lamps	I_e	
Rated operational current for AC-15 acc. to IEC/EN 60647-5-1 - Control of a.c. electromagnetic loads	I_e	
Rated operational current for fluorescent lamps acc. to IEC/EN 60669-2-2	I_e	
Fluorescent / energy saving / compact lamps with electronic control gear	I_e	
Electrical endurance - for all utilization categories		C)
Terminal capacity for main circuit	S	r
Screw for main circuit		
Screw-head for main circuit		
Tightening torque for main circuit		I
Terminal capacity for control circuit	S	r
Screw for control circuit		
Screw-head for control circuit		
Tightening torque for control circuit		I

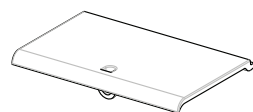
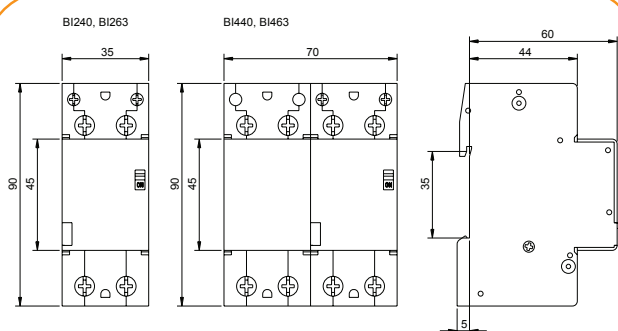
	BI240	BI440	BI263	BI463	BIN	BIC
	IEC/EN 60669-2-2					
	Yes					
	Yes					
	With actuator					
	IP 20					
	2	4	2	4	½	
°C	-25...+55					
°C	-30...+80					
	95 % RH at +55 °C					
	10 V / 100 mA					
g	15					
g	3					
mm	>3					<3
mm	>6					
cycles	10 ⁶					
A	40		63		6	2
W	3		3,5		0,3	0,1
V	AC: 12, 24, 48, 120, 230, 240					
Hz	50 or 60					
%	90...110					
VA/W	26 / 12					
VA/W	12 / 4					
ms	50					
ms	100					
ms	150					
	7,5					
	1 hour					
kV	4					
A	40		63		6	2
V	440				440	
V	440				250	
Hz	50 / 60					
A	40 / 440 V		63 / 440 V		6 / 250 V	2 / 250 V
A	40 / 440 V		63 / 440 V			
A	40 / 440 V		63 / 440 V			
A	40 / 440 V		63 / 440 V			
A	40 / 230 V		63 / 230 V			
A	32 / 440 V		40 / 440 V			
A	32 / 230 V / 1-phase	32 / 230 V / 1-phase 32 / 230 V / 3-phase 32 / 400 V / 3-phase	40 / 230 V / 1-phase	40 / 230 V / 1-phase 40 / 230 V / 3-phase 40 / 400 V / 3-phase		
A	17 / 230 V / 1-phase	17 / 230 V / 1-phase 19,6 / 230 V / 3-phase 21,7 / 400 V / 3-phase	28 / 230 V / 1-phase	28 / 230 V / 1-phase 26,4 / 230 V / 3-phase 29,3 / 400 V / 3-phase		
A	17 / 230 V / 1-phase	17 / 230 V / 1-phase 19,6 / 230 V / 3-phase 21,7 / 400 V / 3-phase	28 / 230 V / 1-phase	28 / 230 V / 1-phase 26,4 / 230 V / 3-phase 29,3 / 400 V / 3-phase		
A	10 / 230 V 5 / 400 V		16 / 230 V 8 / 400 V			
µF	220 / 230 V		330 / 230 V			
A	40 / 24 V / 1 pole 1 / 220 V / 1 pole		63 / 24 V / 1 pole 1,5 / 220 V / 1 pole			
A	30 / 24 V / 1 pole 0,5 / 220 V / 1 pole		40 / 24 V / 1 pole 0,75 / 220 V / 1 pole			
A	24 / 24 V / 1 pole 0,25 / 220 V / 1 pole		30 / 24 V / 1 pole 0,5 / 220 V / 1 pole			
A	40 / 24 V / 1 pole 1 / 220 V / 1 pole		63 / 24 V / 1 pole 1,5 / 220 V / 1 pole			
A	30 / 24 V / 1 pole 0,5 / 220 V / 1 pole		40 / 24 V / 1 pole 0,75 / 220 V / 1 pole			
A	25 / 24 V / 1 pole 0,25 / 220 V / 1 pole		30 / 24 V / 1 pole 0,5 / 220 V / 1 pole			
A	25 / 230 V		32 / 230 V			
A	25 / 230 V		32 / 230 V			
A					6 / 230 V	
A	25 / 230 V		32 / 230 V			
A	4 / 230 V		8 / 230 V			
cycles	10 ⁵					
mm²	2,5...25 rigid / flexible					1...4 rigid / flexible
	M5					M3
	(±) PZ2					(±) PZ1
Nm	2,0					0,6
mm²	1...4 rigid / flexible					
	M3					
	(±) PZ1					
Nm	0,6					

Contact arrangements, Operation positions, Dimensions, Ordering data

CONTACT ARRANGEMENTS

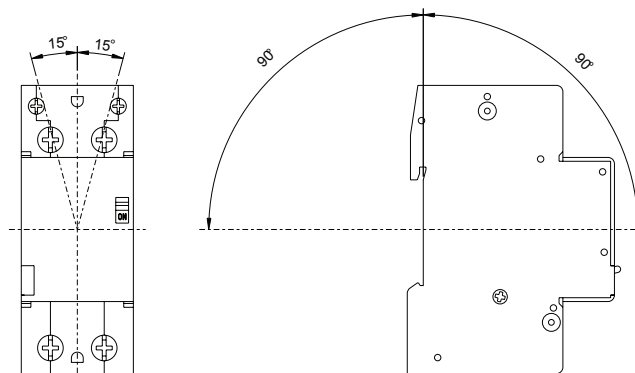


DIMENSIONS

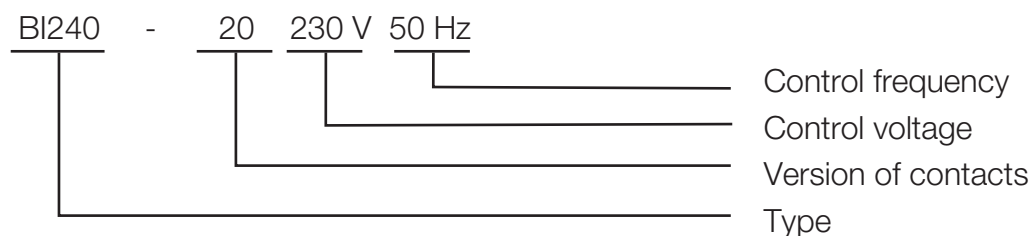


SEALING COVER

OPERATION POSITIONS



ORDERING DATA



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