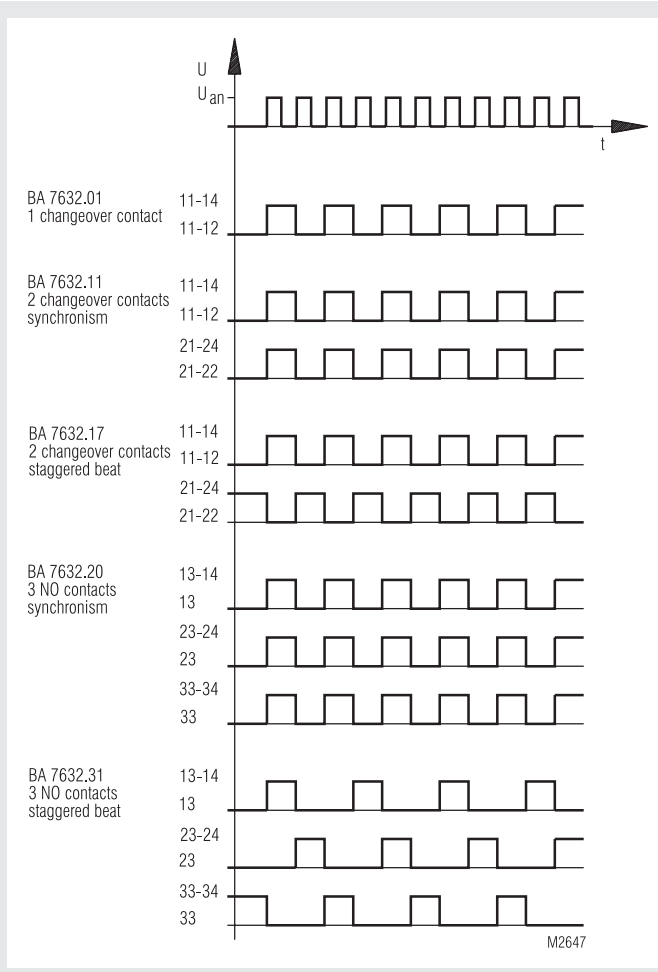


Stepping Relay BA 7632



- According to IEC/EN 61 810-1
- High switching capacity of contacts
- High switching safety
- Width 45 mm

Function Diagram



Approvals and Marking



Application

For cyclic control processes

Function

With an impulse of the control voltage to the terminals A1-A2, a symmetric rotation tongue-magnetic system will be actuated, which switches the cam wheels of the contact links further on step. The sequence of the contact actuation effects according to the desired switching program.

Technical Data

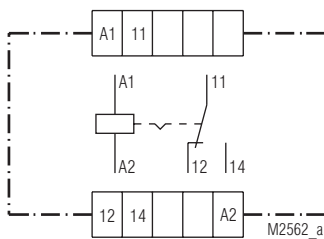
Standard - switching programs

for 1 changeover contact	contact 1		
program .01:	E-A etc.		
for 2 changeover contacts	contact 1	contact 2	
program .11:	E-A etc.	E-A etc.	
program .17:	E-A etc.	A-E etc.	
for 3 NO contacts	contact 1	contact 2	contact 3
program .20:	E-A etc.	E-A etc.	E-A etc.
program .31:	E-A-A etc.	A-E-A etc.	A-A-E etc.
	other switching program on request		
	A = contact in initial position		
	E = contact in switching position		

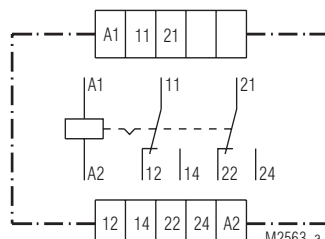
Input

Nominal voltage U_N:	AC 24, 42, 110, 127, 230, 240 V
	DC 24 V
Voltage range:	0,8 ... 1,1 U_N
Min. transition time:	≥ 100 ms

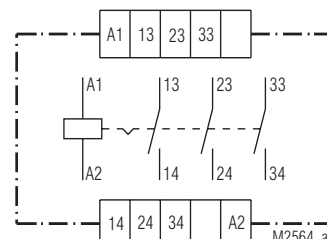
Circuit Diagrams



BA 7632.01



BA 7632.11
BA 7632.17



BA 7632.20
BA 7632.31

Technical Data

Min. break time: ≥ 200 ms
Nominal consumption: AC 14 VA / 7 W
Nominal frequency: 50 / 60 Hz

Output

Operate time of contacts: < 90 ms
Release time of contacts: < 180 ms
Nominal breaking capacity: AC 24 V AC 110 V AC 230 V AC 380 V
cos φ 1 ... 0.7: 6 A 6 A 4 A 3 A
cos φ 0.4: 4 A 4 A 3 A 2 A
DC 24 V DC 60 V DC 110 V DC 220 V
resistive: 1.5 A 0.8 A 0.4 A 0.2 A
inductive: 0.8 A 0.3 A 0.2 A 0.12 A
Thermal current I_{th}: 10 A
Short circuit strength
max. fuse rating: 10 A gL
Electrical life: 1 x 10⁶ switching cycles,
3 000 switches / h
at 50 % of the switching capacity
0,5 x 10⁶ switching cycles,
1 500 switches / h
at 100 % of the switching capacity
> 5 x 10⁶ switching cycles
Mechanical life:
Permissible switching frequency: 3 000 switching cycles / h

General Data

Operating mode: Continuous operation
Temperature range: - 20 ... + 70°C at 40 % ED
(cycle duration 250 s)
- 20 ... + 60°C at 60 % ED
(cycle duration 160 s)
- 20 ... + 45°C at DB
Clearance and creepage distances
rated impuls voltage /
pollution degree: 4 kV / 2 IEC 60 664-1
EMC
Electrostatic discharge: 6 kV (air) IEC/EN 61 000-4-2
HF-irradiation: 10 V / m IEC/EN 61 000-4-3
Fast transients: 2 kV IEC/EN 61 000-4-4
Surge voltages
between
wires for power supply: 2 kV IEC/EN 61 000-4-5
between wire and ground: 4 kV IEC/EN 61 000-4-5
HF-wire guided: 10 V IEC/EN 61 000-4-6
Interference suppression: Limit value class B EN 55 011
Degree of protection
Housing IP 40 IEC/EN 60 529
Terminals: IP 20 IEC/EN 60 529
Housing: Thermoplast PC ISO 1043-1
with V0-behaviour to UL subject 94
Vibration resistance: Amplitude 0.35 mm,
frequency 10...55Hz, IEC/EN 60 068-2-6
Climate resistance: humid heat IEC/EN 60 068-2-30
24-hours-rhythm:
40°C, 92 % relative air humidity and
23°C, 83 % relative air humidity
Terminal designation: EN 50 005
Wire connection: 2 x 2,5 mm² solid or
2 x 1,5 mm² stranded wire with sleeve
DIN 46 228-1/-2/-3/-4
Wire fixing: Flat terminals with self-lifting
clamping piece IEC/EN 60 999-1
Mounting: DIN rail IEC/EN 60 715
Weight: 450 g

Dimensions

Width x height x depth: 45 x 74 x 121 mm

Standard Type

BA 7632.31 AC 230 V 50/60 Hz
Article number: 0028206 stock item
• Output: 3 NO contacts
• Nominal voltage U_N: AC 230 V
• Width: 45 mm

Ordering example

BA 7632 .11 AC 230 V 50 / 60 Hz
Nominal frequency
Nominal voltage
Contact sequence
Type