KBP Series Panel Relay

- **Dual coil latching relay accepts a momentary impulse to one coil to latch and a second impulse to the other coil to release**
- **Clear polycarbonate dust cover with 11- or 20-pin plug**
- **11- or 20-pin octal-style plug connector**
- **AC and DC coils**
- **Two, four, and five pole Form C (CO) contact arrangements**



Typical applications
Elevator controls

Approvals

UL E29244
Technical data of approved types on request

Contact Data

	2 pole	4 pole	5 pole
Contact arrangement	2 form C (CO)	4 form C (CO)	5 form C (CO)
Rated voltage		120VAC	
Rated current		10A	
Contact material		Ag, AgCdO	
Min. recommended contact load			
Ag contacts		100mA, 12VDC	
AgCdO contacts		300mA, 12VDC	
Initial contact resistance			
Ag contacts		100mΩ	
AgCdO contacts		200mΩ	
Frequency of operation		360 ops./hour	

Contact ratings

Type	Load	Cycles
UL 508		
Ag	5A, 120VAC	$50x10^3$
AgCdO	10A, 120VAC	$50x10^3$
Mechanical endurance		$500x10^3$ ops.

Coil Data

Coil voltage range: 12 to 220VDC, 6 to 240VAC

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Coil resistance Ω±10%	Rated coil power W
12	12	9	52	2.8
24	24	18	230	2.5
48	48	36	850	2.71
110	110	82.5	4560	2.65
–	220	165	Use 110VDC relay with 5KΩ, 5W resistor in series	2.42

All figures are given for coil without preenergization, at ambient temperature +23°C.

Coil Data (continued)

Coil versions, AC coil

Coil code	Rated voltage VAC	Operate voltage VAC	Coil resistance Ω±15%	Rated coil power VA
2 and 4 pole models				
24	24	20.004	42	5.05
120	120	102	1030	5.3
240	240	204	4100	5.3
5 pole models				
24	24	20.4	27	7.8
120	120	102	700	8.2

All figures are given for coil without preenergization, at ambient temperature +23°C

Insulation Data

Initial dielectric strength	
between open contacts	$500V_{rms}$
between contact and coil	$1000V_{rms}$
between adjacent contacts	$1000V_{rms}$
Initial insulation resistance	
between insulated elements	100MΩ

Other Data

Material compliance:	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter
Ambient temperature	-45ºC to 85ºC
Category of environmental protection IEC 61810	RTI - dust protected and RT0 - open style
Terminal type	11- or 20-pin octal-style plug
Weight	306g
Packaging/unit	tray/25 pcs., box/60pcs.

Accessories

For details see datasheet: Sockets and Accessories, KBP Relays

Product Code	Description
27E892	DIN 11 pin octal socket
27E123	Track mount 11 pin octal socket
27E928	17 and 20 pin octal socket

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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

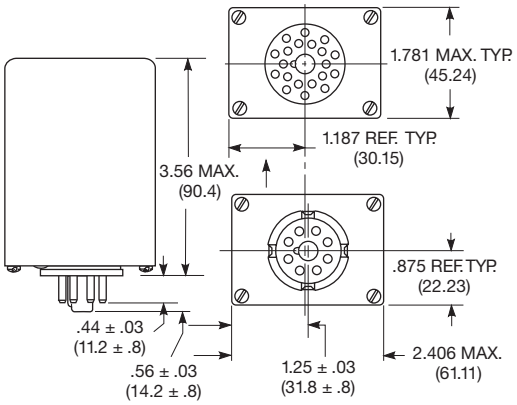
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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

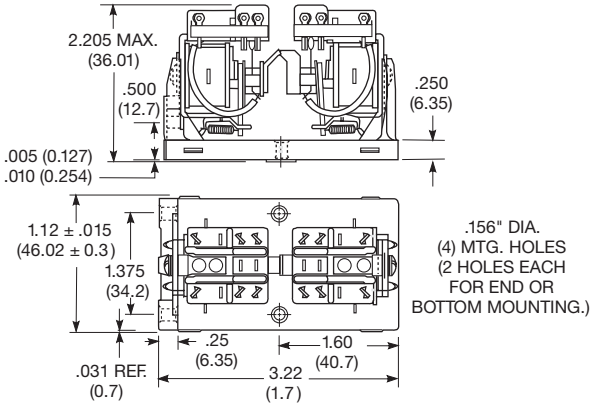
KBP Series Panel Relay (Continued)

Dimensions

KBP - enclosed

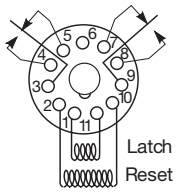


KB - open style



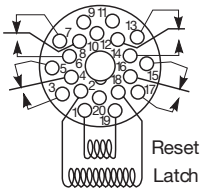
Terminal assignment

2 Form C



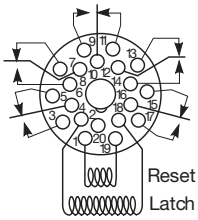
KBP11

4 Form C



KBP17

5 Form C



KBP20

Note: Shown with reset coil energized last.

Product code structure

Typical product code: **-KBP -11 A G -24**

Type
- **KBP** Enclosed, dual coil mechanical latching relay
- **KB** Open, dual coil mechanical latching relay

Contact arrangement
- **11** 2 form C (2CO)
- **17** 4 form C (4CO)
- **20** 5 form C (5CO)

Coil input
- **A** AC
- **D** DC

Contact rating
- **Blank** 5A, 120VAC (Ag)
- **G** 10A, 120VAC, 80% PF (AgCdO)

Coil voltage

Coil code: please refer to coil versions table
Specify the same latch and release coil voltage for standard relays.
Unlike coils available on special order.

Product Code	Arrangement	Case style	Contact material	Coil	Part Number
KB-17AG-120	4 form C, 4 CO	open	AgCdO	120VAC	1-1393100-2
KB-17DG-12				12VDC	1-1393100-5
KBP-11AG-120	2 form C, 2 CO	enclosed		120VAC	2-1393100-4
KBP-11DG-24				24VDC	2-1393100-6
KBP-11DG-110				110VDC	2-1393100-5
KBP-20AG-120	5 form C, 5 CO			120VAC	3-1393100-4

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