

HR730

1,2-pole 30A Momentary voltage drops compatible power relay

Features

- Designed for high inrush current load
- High surge strength 10,000V
- Quick-connect and bolt terminal types available

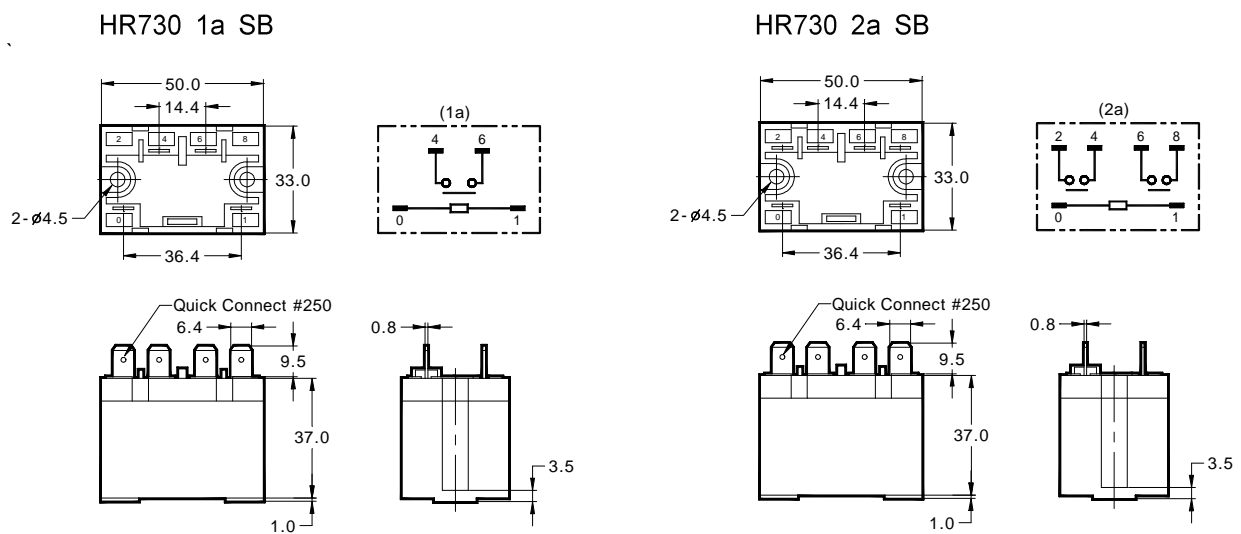
Applications

- Motor load
- Heater
- Compressor
- Lamp load

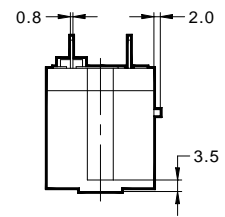
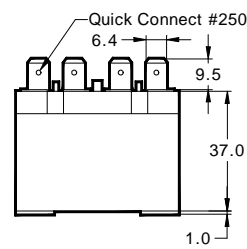
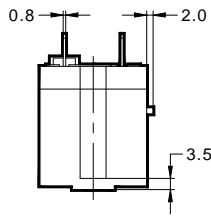
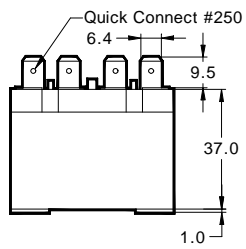
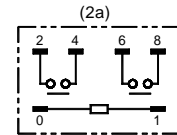
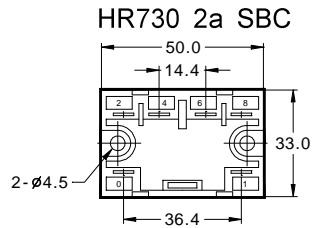
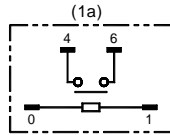
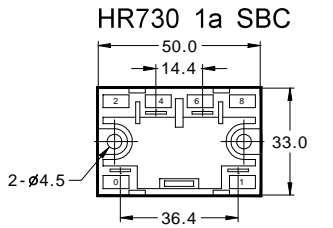


Dimensions (mm) and Schematic (Top view)

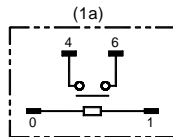
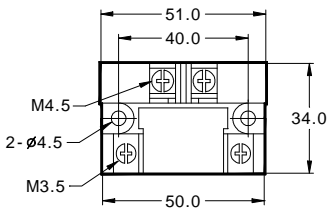
To convert into inches, multiply by 0.03937



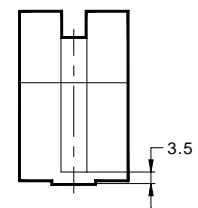
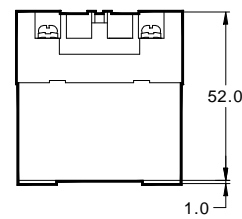
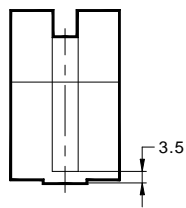
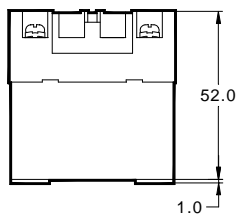
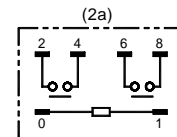
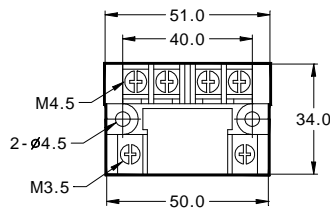
HR730



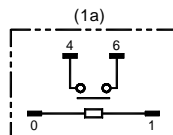
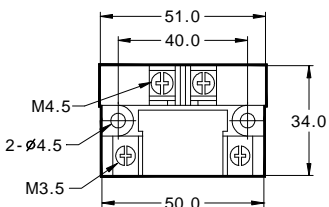
HR730 1a TB



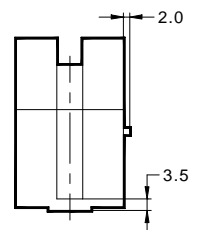
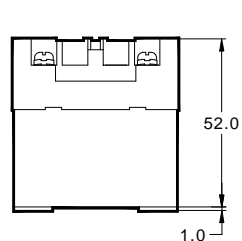
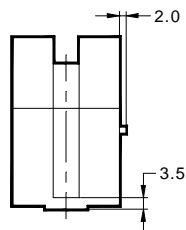
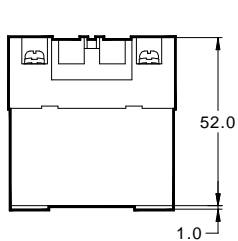
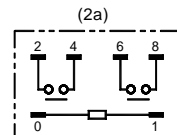
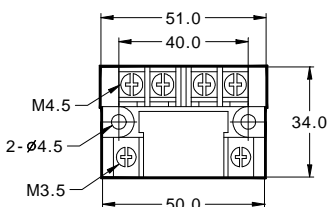
HR730 2a TB



HR730 1a TBC



HR730 2a TBC



HR730

Contact data

Arrangement	1 Form A	2 Form A
Contact materialw	Ag Alloy	
Initial contact resistance	50mΩ max.	
Rated load, resistive	30A 30VDC 30A 250VAC TV-15	25A 30VDC 25A 250VAC TV-10
Maximum carry current	30A	25A
Maximum switching capacity	with DC voltage: 900W with AC voltage: 6,600VA	750W 5,500VA
Maximum switching voltage	30VDC 250VAC	

Coil data

Nominal voltage	6VDC to 100VDC 6VAC to 240VAC	
Nominal power consumption ¹⁾	DC Coil: 1.9W approx. AC Coil: 1.7VA to 1.9VA approx. (6VAC to 48VAC) 1.9VA to 2.7VA approx. (100/120VAC) 1.8VA to 2.6VA approx. (200/240VAC)	
Operate voltage ²⁾	70% of nominal voltage	
Release voltage ³⁾	DC Coil: 10% of nominal voltage AC Coil: 15% of nominal voltage	

^{1), 2), 3)}The values depend on coil voltage, see Part selection chart

General data

Operate time	30ms max. at nominal voltage	
Release time	30ms max. at nominal voltage	
Initial insulation resistance	1,000 MΩ min.	
Dielectric strength	Between open contacts: Between contacts and coil:	2,000VAC _{rms} for 1 minute 5,000VAC _{rms} for 1 minute
Surge strength	10,000V	
Expected life	Mechanical: Electrical:	More than 1,000,000 operations More than 100,000 operations at rated load
Vibration resistance	Functional: Destructive:	10~55Hz dual amplitude: 1.0mm 10~55Hz dual amplitude: 1.5mm
Shock resistance	Functional: Destructive:	10G min. 100G min.
Humidity	35% to 85% RH	
Weight	Bolt terminal: 120g approx. Tab, plug-in terminal: 90g approx.	

Note: The above figures are initial values

HR730

Part number description



HR730

Contact arrangement

1a: 1 Form A
2a: 2 Form A

Mounting & Terminal

TB: upper (screw) mounting / Bolt
SB: upper (screw) mounting / Quick-connect (#250)

Option

C: Test button

Coil ratings

6VDC	6VAC
12VDC	12VAC
24VDC	24VAC
48VDC	48VAC
100VDC	100/120VAC
	200/240VAC

Part number description is provided for reference, part number cannot be arbitrarily composed. Refer to the part numbers shown in the table below. Special designs to customer specifications are possible; please contact HR.

Part selection

Fill in the codes to the part number by selecting them from the part number description

Part number	Nominal voltage (V)	Coil resistance ($\Omega \pm 10\%$)	Nominal current (mA)	Must operate voltage (V)	Must release voltage (V)	Max voltage (V)	Nominal power (W,VA)
DC							
HR730□□□6VDC	6	18.9	317	4.2	0.6	6.6	1.9
HR730□□□12VDC	12	75	158	8.4	1.2	13.2	
HR730□□□24VDC	24	303	79	16.8	2.4	26.4	
HR730□□□48VDC	48	1,220	40	33.6	4.8	52.8	
HR730□□□100VDC	100	5,260	19	70	10	110	
AC							
HR730□□□6VAC	6	—	275	4.2	0.9	6.6	1.7
HR730□□□12VAC	12		138	8.4	1.8	13.2	1.7
HR730□□□24VAC	24		74	16.8	3.6	26.4	1.8
HR730□□□48VAC	48		39	33.6	7.2	52.8	1.9
HR730□□□100/120VAC	100/120		18.7~22.1	70	18	132	1.9~2.7
HR730□□□200/240VAC	200/240		9.1~10.8	140	36	264	1.8~2.6

Note: All values in the chart are measured at 23°C