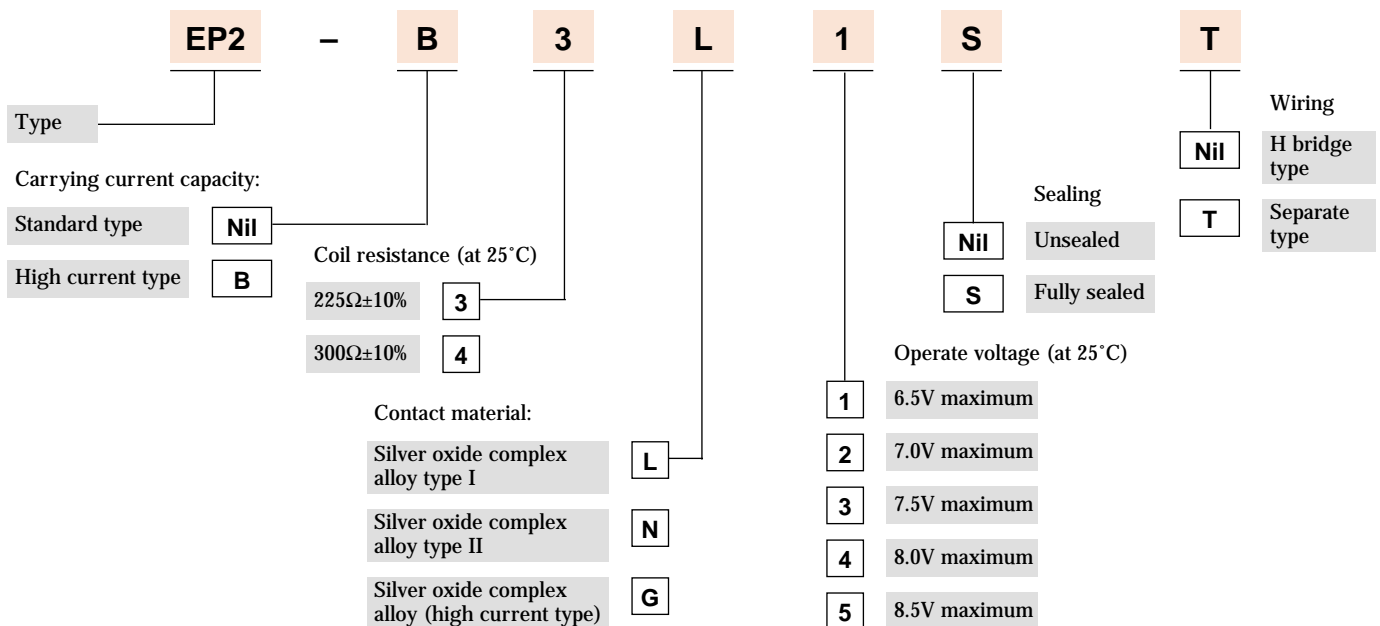


- Twin relay for motor and solenoid reversible control
- 50% less relay space than conventional two relays
- Contact switching current of 25A maximum
- High performance and productivity by unique symmetrical structure
- Flux tight and fully sealed available
- Delivered in stick-tube for automatic insertion machine



## Options and ordering codes



## Specifications

at 25°C (77°F)

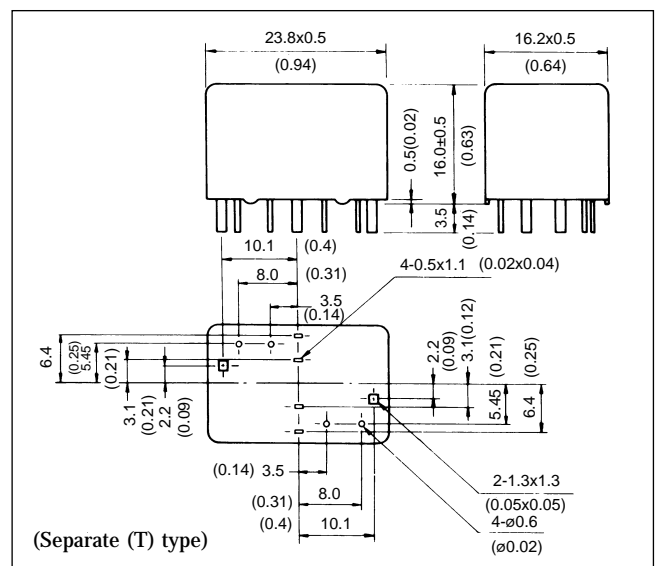
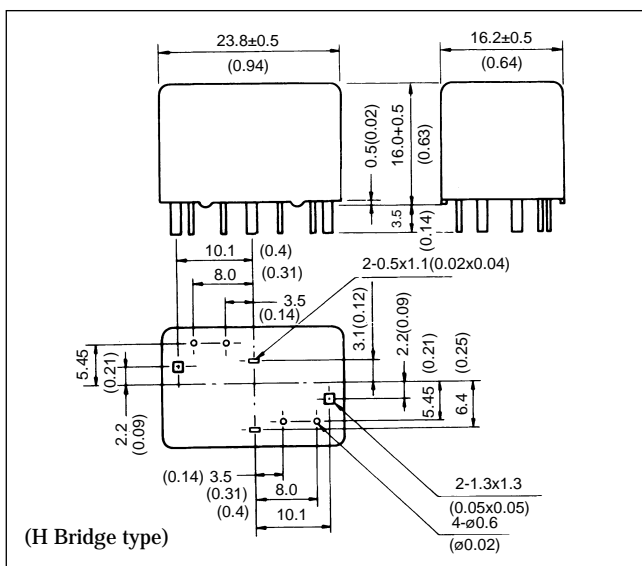
<b>Contact form</b>	2C (H bridge type and separate type)	
<b>Contact material</b>	Silver oxide complex alloy (special types available)	
<b>Contact resistance</b>	50mΩ maximum (measured at 7A) initial	
<b>Contact switching voltage</b>	30VDC maximum 5VDC minimum	
<b>Contact switching current</b>	25A maximum (at 16VDC) 1A minimum	
<b>Contact carrying current</b>	<b>Standard</b>	20A maximum (2 minutes maximum) (at 12VDC, 85°C)
	<b>High</b>	25A maximum (2 minutes maximum) (at 12VDC, 85°C)
<b>Operate time</b>	Approximately 5ms maximum (at 12VDC, excluding bounce) initial	
<b>Release time</b>	Approximately 2ms maximum (at 12VDC, excluding bounce) initial, without diode	
<b>Nominal operate power</b>	0.48W/0.64W (at 12VDC)	
<b>Insulation resistance</b>	100MΩ minimum (at 500VDC) initial	
<b>Breakdown voltage</b>	500VDC minimum (for 1 minute) initial	
<b>Shock resistance</b>	98 m/s <sup>2</sup> (approximately 10G) minimum (misoperating)	
<b>Vibration resistance</b>	10 to 300Hz, 43 m/s <sup>2</sup> (approximately 4.4G) minimum (misoperating)	
<b>Coil temperature rise</b>	50°C/W (contact carrying current: 0A)	
<b>Ambient temperature</b>	-40 to +85°C	
<b>Life expectancy</b>	<b>Mechanical</b>	1 x 10 <sup>6</sup> operations
	<b>Electrical</b>	1 x 10 <sup>5</sup> operations (at 14VDC, motor load 20A/3A)
<b>Weight</b>	Approximately 15g	

## Coil specification EP2

at 25°C (77°F)

Part numbers		Nominal Voltage (VDC)	Coil resistance ( $\Omega \pm 10\%$ )	Nominal Current (mA)	Must Operate voltage (VDC maximum)	Must Release voltage (VDC minimum)	Nominal Operate power (W)
H Bridge Type	Separate Type						
EP2-3N1S	EP2-3N1ST	12	225	53.3	6.5	0.9	0.64
EP2-3N2S	EP2-3N2ST	12	225	53.3	7.0	0.9	0.64
EP2-3N3S	EP2-3N3ST	12	225	53.3	7.5	0.9	0.64
EP2-4N3S	EP2-4N3ST	12	300	40.0	7.5	0.9	0.48
EP2-4N4S	EP2-4N4ST	12	300	40.0	8.0	0.9	0.48
EP2-4N5S	EP2-4N5ST	12	300	40.0	8.5	0.9	0.48

## Outline dimensions mm



## PCB pad layout and schematics (mm) bottom view

