



# BRL

## Motor Protector

The BRL thermal protector is a small, compact, snap action, auto-reset device which interrupts an electric power line. Since BRL is made of plastic case, it does not need additional insulation from metal parts of motor. Since BRL is sealed to withstand varnish dipping, it can be mounted directly on the windings, where it can sense the actual temperature of the motor windings.

### Operation

The operating principle of the BRL is both simple and effective. The heart of the protector is a bimetal snap action disc. When the temperature of this disc reaches pre-calibrated temperature it snaps open, resulting in an open circuit. This temperature is reached during a fault condition, caused by either an increase in ambient temperature which the protector is placed, an increase in current flowing through the disc, or a combination of both. After the BRL breaks the circuit, the system cools down and the BRL automatically resets allowing power to be restored to the circuit.

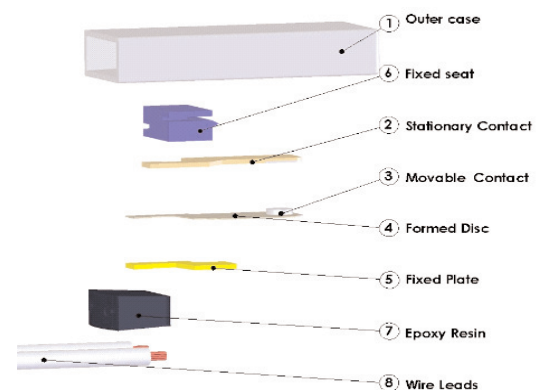
BRL thermal protector has a bimetal disc designed and manufactured for that specific temperature rating. Then each and every rating is calibrated and checked to the specific opening temperature range. This results in precise operating characteristics necessary to achieve consistent, reliable performance over the required life cycle.

### Applications

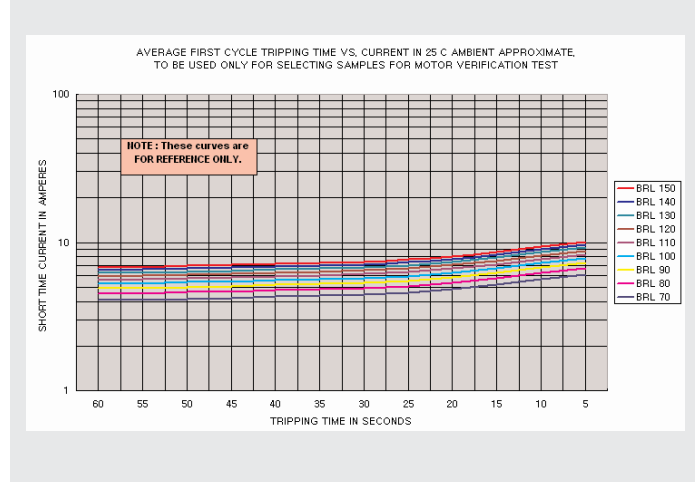
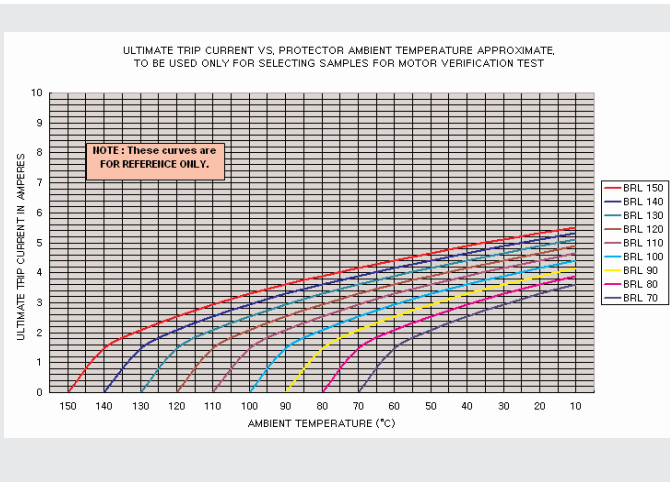
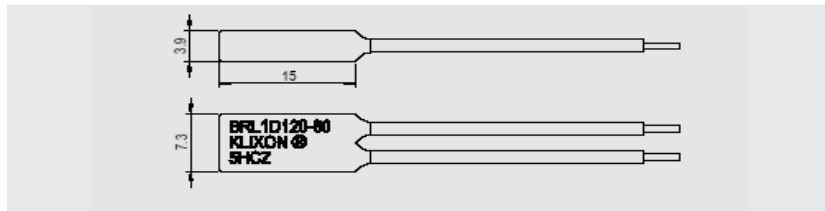
- . Resin motors
- . Pump motors
- . Fan motors
- . Small motor

### Construction

BRL is constructed with simple design and based on the well known Klixon snap action disc technology of Sensata Technologies.



**KLIXON**  
®



Nom. open Temperature

**Specification**

- . Purpose of Control: Thermal Motor Protector
- . Temperature range: 65 to 150°C TMP
- . Tolerance on open temperature: +/- 5K
- . Maximum contact rating for BRL1D: 8A / 115Vac
- . Operating time: Continuous
- . Extend of sensing element: Whole control
- . PTI of the insulation: 175
- . Protection degree: IP00
- . Control pollution situation: PD2

**Z : Physicals**

**Wire material, Leads length and else.**

- UL 1430, AWG#22 – BL,WH,BU
- UL 3266, AWG#22 – BL,WH,BU,RE,YE

CODE	Wire Material	Lead Length Total/Strip (mm)
<b>BRL *-62</b>	UL 3266, AWG#22, White	70/10

**Certifications**

Agency	File number	Standard	Application
UL	E15962	2111	Motor Protector
CQC	05002012946	GB14536.1-1998	Motor Protector
		GB14536.3-1996	
ENEC	2089558.01	EN60730-2-2	Thermal Motor Protector
		EN60730-2-3	Thermal Ballast Protector/ Thermal Cut-out
		EN60730-2-9	

