

# AMPLIMO HIGH QUALITY LOUDSPEAKER RELAY

## PRELIMINARY

- High switching current at 16A in small size.
- 1 NO contact with a tungsten pre-make contact
- Dielectric strength up to 5000VAC
- 165A @ 20mS peak currents
- Comply with RoHS and REACH regulations
- Tungsten pre-make contact + goldplated silver alloy

CONTACT RATING	
Rated Load (Resistive)	16A 250VAC
Rated Carrying Current	16A
Max. Allowable Voltage	AC 400V
Contact Material / Contact Capacity	Main: goldplated silver alloy, pre-make: tungsten tungsten load: 3000W / 230V peak current (inrush): 165A (20mS) 16A 250VAC, capacitive load 140uF TV-15 120VAC
Contact Form	SPST

### Performance (at initial value)

- |   |   |                                 |   |
|---|---|---------------------------------|---|
| • contact resistance                            | : $\leq 20\text{m}\Omega$                   | • humidity                      | : 45 ~ +85% RH.   |
| • operating time                                | : 8 mSec. max.                              | • temperature range             | : -45° ~ +85°C  |
| • release time                                  | : 3 mSec. max.                              | • coil temperature rise         | : 45°C max.   |
| • dielectric strength<br>between coil & contact | : 5000 VAC @ 50/60Hz.<br>for 1 minute       | • shock                         |   |
| between contacts                                | : 1000 VAC @ 50/60Hz.<br>for 1 minute       | • endurance                     | : 1000m/S <sup>2</sup>  |
| • surge strength                                | : 10.000V (between coil<br>& contact)       | • error operation               | : 100m/S <sup>2</sup>   |
| • insulation resistance                         | : 100 M $\Omega$ min. @ 500VDC              | • Life expectancy<br>electrical | : 5x10 <sup>4</sup> operations at<br>rated resistive load<br>1.2x10 <sup>4</sup> operations at<br>tungsten load |
| • Max. on/off switching<br>electrical           | : 6 cycles per minute                       | mechanical                      | : 5x10 <sup>6</sup> operations at<br>no load condition  |
| • mechanical                                    | : 300 cycles per minute                     | • weight                        | : ~12.5g  |
| • vibration                                     | : 10 to 55 Hz dual<br>amplitude width 1.5mm | • sealing                       | : flux proofed  |
| • endurance                                     | : 10 to 55 Hz dual<br>amplitude width 1.5mm |                                 |   |
| error operation                                 |   |                                 |   |



Coil Specification (@ 20°C)

Type Number	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 10\%$ )	Power Consumption (W)	Operate Voltage (VDC)	Release Voltage (VDC)	Maximum Allowable Voltage (VDC)
LR-05	5	80	63	0.4	70% Maximum	10% Maximum	130%
LR-12	12	33	360				
LR-24	24	17	1440				

