



### ELECTRONICS TEST AND DEVELOPMENT CENTRE

(STQC Directorate, Ministry of Communications & Information Technology)  
100 ft Road, Peenya Industrial Estate, Bangalore-560 058  
(Tel: 2839 5992, 2639 4647. Fax: 080 - 2839 1804)  
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Report No.: ETDC (Bg)/T-60222

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Test : Impulse voltage test  
Test Specification : IEC 60255-5: 1977  
EUT Configuration : Electromagnetic Relay 2N/O configuration mounted on PZ-L Socket  
DINRAIL mountable with LED coil power ON indicator.

Waveform characteristics:

- Rise Time : 1.2  $\mu$ Sec
  - Pulse width: 50  $\mu$ Sec
  - Polarity : +ve & -ve.
- Test Voltage : 5 kV  
No. of pulses : 3 in each Polarity  
Interval : 5 second

Test Condition: Test in unenergised condition

Points of application	Performance criteria	Observation
1) All terminal of the Relay and Base metal parts are shorted together with respect to DINRAIL on which it is mounted: 2) Between independent circuits i.e., a) Between coil and contacts b) Between 2 sets of contacts	-No flash over / Disruptive discharge/ Puncture shall occur during the test.  - Before & after the test relay should work satisfactorily.	-No flash over / disruptive discharge/ puncture was observed during the test.  - Before & after the test relay was working satisfactorily.

*Vijendra Singh*  
Tested By *23/07/09*  
(Mr. Vijendra Singh)  
(Scientist 'C')  
Date:  
TR/EMC/F022

Approved By

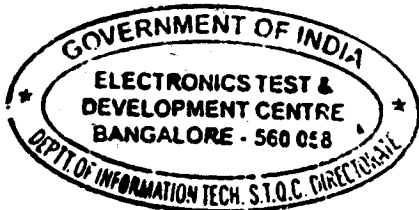
*N.C. JOSHI*  
23/07/09

**N.C. JOSHI**  
JOINT DIRECTOR  
Electronics Test & Development Centre  
STQC, Ministry of Comm. & IT  
Govt. of India, Bangalore 560 058

Issued By

*[Signature]*  
23/07

**CO-ORDINATOR**  
**TESTING SERVICES,**  
**E.T.D.C., BANGALORE**





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### TEST REPORT

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#### 1. Scope

1.	Service request number	60222
2.	Requested by (Name & Address of the Organization)	M/s. Paramount Industries, No.70, S.S.I Area, 5 <sup>th</sup> cross, Rajajinagar, Bangalore-560010.
3.	Description of the equipment:	
	a) Nomenclature	Electromagnetic Relay with Socket
	b) Manufactured by	M/s. Paramount Industries
	c) Model / type no.	P3-1-M
	d) Serial no.	PROTOTYPE
4.	Date of submission of samples	22-07-2009
5.	Condition of item on receipt	Good
6.	Date of completion of tests	22-07-2009
7.	Applicable test specification	IEC 60255-5: 1977
8.	Test category	Performance Test
9.	Environment condition	Temp: 26 °C Humidity: 65% RH

#### 2. Major equipments used

Sl No	Nomenclature	Make	Model	Cal. Due
1.	Voltage Surge Simulator	EM Test	VSS 500-M	NOV 2009

This report refers only to the item tested and shall not be reproduced except in full. Refer to Information contained on the cover.

EMC/FM-081-07

