

Laboratory Honeywell Electrical Devices and Systems India Limited, Hope Town Test Centre, Khasra No. 323 (MI), Central Hope Town, Pargana Pachwadun, Twin Industrial Estate. Selaqui, Dehradun, Uttrakhand

Accreditation Standard ISO/IEC 17025: 2005

Discipline Electrical Testing **Issue Date** 08.12.2014

Certificate Number T-1837 **Valid Until** 07.12.2016

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
1.	WIRING ACCESSORIES			
1.	Plugs & Sockets- Outlets of Rated Voltage Upto and Including 250 V and Rated Current Upto and Including 16 A Excluding Screw Less Terminals	Marking	IS 1293:2005, CI No 8	Qualitative (Visual Inspection)
		Checking of Dimensions	IS 1293:2005, CI No 9	0 to 150 mm
		Protection Against Electric Shock	IS 1293:2005, CI No 10	At 40 to 50 V Test fingers up to 16 A Sockets.
		Provision for earthing	IS 1293:2005, CI No 11	0 to 30A, L.C.: 0.1 A
		Terminals	IS 1293:2005, CI No 12	6 to 406 cNm
		Construction of fixed sockets outlets (Except with membrane)	IS 1293:2005, CI No 13	Qualitative (Visual Inspection)
		Resistance to ageing	IS 1293:2005, CI No 16.1	Ambient to 300 °C
		Resistance to Humidity	IS 1293:2005, CI No 16.3	(-) 40 °C to 180 °C 1 % to 100 % RH
		Insulation Resistance	IS 1293:2005, CI No 17.1	0 to 2000 MΩ
		Electric Strength	IS 293:2005, CI No 17.2 & 17.3	0 to 3 kV
	Operation of earthing contact	IS 1293:2005, CI No 18	Qualitative (Visual Inspection)	
	Temperature Rise	IS 1293:2005, CI No 19	Ambient to 400 °C	

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	Plugs & Sockets- Outlets of Rated Voltage Upto and Including 250 V and Rated Current Upto and Including 16 A Excluding Screw Less Terminals	Making and Breaking	IS 1293:2005, CI No 20	0 to 30A 0 to 415V 0 to 1.0 Cos ϕ
		Normal Operation	IS 1293:2005, CI No 21	0 to 30A 0 to 415V 0 to 1.0 Cos ϕ
		Force necessary to withdraw the plug	IS 1293:2005, CI No 22	Qualitative (Visual Inspection)
		Flexible cable and Their connection (except for Non rewirable plugs and sockets)	IS 1293:2005, CI No 23	60 N
		Mechanical Strength	IS 1293:2005, CI No 24	Qualitative (Visual Inspection)
		Resistance to Heat	IS 1293:2005, CI No 25	Ambient to 300°C Ball impression: Dia:10 mm
		Screws, Current carrying parts and their connections	IS 1293:2005, CI No 26	6 to 406 cNm
		Creepage distance and clearance	IS 1293:2005 CI No 27	1.0 to 4.0 mm
		Resistance to abnormal heat and to fire	IS 1293:2005, CI No 28.1	Ambient to 1200 °C
		Resistance to rusting	IS 1293:2005; CI No 29	Qualitative (Visual Inspection)
	Additional tests on pins provided with insulating sleeves	IS 1293:2005 CI No 30.3 & 30.4	(-) 40 °C to 180 °C	

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Switches Rating Upto 40 A With Rocker, Push Button, Activating Switch and Pattern No 1,2,3,4,6,6/2 Except Screw Less Terminals	Marking	IS 3854:1997, CI No 8	Qualitative (Visual Inspection)
		Checking of Dimensions	IS 3854:1997, CI No 9	0 to 150 mm
		Protection Against Electric Shock	IS 3854:1997, CI No 10	At 40 to 50 V
		Provision for earthing	IS 3854:1997, CI No 11	Upto 40A Switches
		Terminals & Screws	IS 3854:1997, CI No 12	6 to 406cNm
		Mechanism	IS 3854:1997, CI No 14	0 to 3 kV
		Resistance to Ageing	IS 3854:1997, CI No 15.1	Ambient to 300 °C
		Resistance to Humidity	IS 3854:1997, CI No 15.3,	(-) 40 °C to 180 °C 1% to 100% RH
		Insulation Resistance	IS 3854:1997, CI No 16.1	0 to 2000 MΩ
		Electric Strength	IS 3854:1997, CI No 16.2 & 16.3,	0 to 3 kV
		Temperature Rise	IS 3854:1997, CI No 17	Ambient to 400°C
		Making and Breaking	IS 3854:1997, CI No 18	0 to 300 V 0 to 60A 0.3 Lag to 1 to 0.3 lead
Normal Operation	IS 3854:1997, CI No 19	0 to 300 V 0 to 60A 0.3 lag 1 to 0.3 lead		

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	Switches Rating Upto 40 A With Rocker, Push Button, Activating Switch and Pattern No 1,2,3,4,6,6/2 Except Screw Less Terminals	Mechanical Strength	IS 3854:1997, CI No 20	Qualitative (Visual Inspection)
		Resistance to Heat	IS 3854:1997, CI No 21	Ambient to 300°C Ball impression: Dia:10 mm
		Screws, Current carrying parts and their connections	IS 3854:1997, CI No 22	Upto 40A Switches
		Creepage distance and clearance	IS 3854:1997, CI No 23	1 mm to 4 mm
		Resistance of Insulating material to abnormal heat and fire	IS 3854:1997, CI No 24	Ambient to 1200 °C
		Resistance to rusting	IS 3854:1997, CI No 25	Qualitative (Visual Inspection)

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