

Onkar Engine & Generator (P) Limited E-14 Sector: 63, Noida (UP)
Factory Test Report As per IS 374:2019 & IS 302-2-80:2017

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S.NO.	Test and Clauses	Method	Requirement of IS Specification	Test Result	
				A	B
			Cl.24.2 Appliance having a rated input not exceeding 25 W may be fitted with a switch in the supply cord.	Not Applicable	
			Cl.24.5 apacitors in auxiliary windings of motors marked with their rated voltage and capacitance and shall be used In accordance with these marking. In addition, for Capacitors connected in series with a motor winding. It is verified that when the appliance is supplied at 1.1 times rated voltage across the capacitor does not exceed 1.1times rated voltage. Working voltage of motors connected to tthe supply mains and having basic insulation that is inadequate for the rated voltage of the appliance not exceeding 42V.	Satisfactory	
		IS302-2-80:2017	Cl. 24.101 Thermal cut outs incorporated in duct fans in order to comply with 19 shall not be self resetting .	Not Applicable	
			CL 24.102 Stamping of fan motor shall be made from low loss electrical sheet steel conforming to IS 648 or any other suitable low loss electrical sheet steel.	Satisfactory	
			Cl. 24.103 Fans shall be fitted with two or more well balanced blades made from metal or other suitable metal material.	Satisfactory	
			Cl. 24.103 The blades and motor shall be securely fixed so that they do not loosen in operation.	Satisfactory	
		IS302-2-80:2017	CL 24.104 Capacitor shall be easily replaceable and clearly marked with the maximum safe temperature ,and corresponding voltage and capacitance capacitor shall comply with IS 1709.	Satisfactory	
			Cl. 24.105 Bearing shall be free from noise . Proper lubrication of bearing shall be carried out by the manufacturers.	Satisfactory	

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				A	B
27	Supply connection & external Flexible Cards (Cl. 25 of IS 302-2-80:2017)	IS 302-1:2008	Cl.25.1 Appliances other than those intended to be permanently connected to fixed wiring shall be provided with one of the following means for connection to the supply mains. a) Supply Cord fitted with Plug b) Appliance Inlet c) Pins for insertion into socket outlet.	Permanently connected to fixed wiring appliances	
			Cl. 25.2 Appliances other than stationary appliances for multiple supply shall not be provided with more than one means of connection to the supply mains	Satisfactory	
			Cl. 25.2 Stationary appliances for multiple supply may be provided with more than one means of connection provided that the relevant circuits are adequately insulated from each other	Not applicable	
			Cl. 25.2 A Voltage of 1250 V of substantially sinusoidal wave form & having a frequency of 50 Hz is applied for 1 Min between each means of connection to the supply mains. Cl.25,2 of IS 302-1:2008	Withstood the Test	
			Cl. 25.3 Appliances intended to be permanently connected to fixed wiring shall allow the connection of supply conductors after the appliance has been fixed to its support and shall be provided with one of the following means for the connection to the supply mains a) a set of terminal allowing the connection of cables of fixed wiring having the nominal cross sectional areas specified in 26.6 and b) a set of terminals allowing the connection of a flexible cord	Set of terminal provided	
			Cl. 25.5 Supply cord shall be assembled to the appliances by one of the following methods		
			Type X attachment		
			Type Y attachment		
			Type Z attachment	Type X Attachment	

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				A	B
	Supply connection & external Flexible Cords (Cl. 25 of IS 302-2-80:2017)	IS 302-1:2008	Type Z attachment is allowed for portable fans	Not Applicable	
			Cl. 25.6 Plugs shall not be fitted with more than one flexible cord	No Plug used	
			Cl. 25.9 Supply cord shall not be contact with sharp edges or points of the appliances	No supply Cord	
			Cl. 25.10 The supply cord of class 1 appliances shall have green / yellow core that is connected to the earthing terminals of the appliances and to the earthing contact of the Plug	Not Applicable	
			Cl. 25.11 Conductors of the supply cord shall not be consolidated by lead tin soldering where they are subjected to contact pressure unless the clamping means is constructed so that there is no risk of a bad contact due to cold flow of the solder	No Soldering	
			Cl. 25.13 Inlet opening for supply cord shall be constructed so that the sheath of the supply cord can be introduced without risk of damage	No Supply Cord	
			Cl. 25.15 Appliances provided with the supply cord shall have a cord anchorage as per Cl. 25.15. During the test as per Cl. 25.15 of IS 302 -1:2008 the cord shall not be damaged and shall show no appreciable strain at the terminals. After pull force is reapplied the cord shall not be longitudinally displaced by more than 2 mm	No supply Cord	
			Cl. 25.17 For type Y attachment and type Z attachment cord anchorage shall be adequate.Compliance is checked by the Test.	No cord anchorage used	
			Cl. 25.18 Cord anchorages shall be arranged so that they are only accessible with the aid of the tool or shall be constructed so that the cord can only be fitted with the aid of the tool	No cord anchorage used	
			Cl. 25.20 The insulated conductors of supply cord for type Y attachment and type Z attachment shall be additionally insulated from accessible metal parts by basic insulation for class 1 appliances and by supplementary insulation for Class 2 appliances. This insulation may be provided by the sheath of the supply cord or by other means	No supply Cord	

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S.NO.	Test and Clauses	Method	Requirement of IS Specification	Test Result	
				A	B
28	Terminals for External conductors (Cl. 26 of IS 302-2-80:2017)	IS 302:1:2008	Cl. 26.1 Appliances shall be provided with terminals or equally effective devices for connection of external conductors, Terminal shall only be accessible after removal of non detachable cover. However earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection.	Satisfactory	
			Cl. 26.8 Terminal for connection to fixed wiring including the earthing terminal shall be located close to each other	Satisfactory	
			Cl. 26.9 Terminals of the pillar type shall be constructed and located so that the end of the conductor introduced in to the hole is visible or can pass beyond the threaded hole for a distance equal to half the nominal diameter of the screw but at least 2.5 mm	Satisfactory	
			Cl. 26.10 Terminals with screw clamping and screwless terminals shall not be used for flat twin tinsel cords unless conductor ends are fitted with means suitable for screw terminals.	Not Applicable	
			Cl. 26.11 for type Y or Z attachment soldered, welded, crimped and similar connections may be used	Type X Attachment	
29	Provision for Earthing (Cl. 27 of IS 302-2-80:2017)	IS 302-1-2008	Cl. 27.1 Accessible metal parts of class1 appliances that may become live in the event of insulation fault, shall be permanently and reliably connected to an earthing terminal with in the appliance or to the earthing contact of the appliance inlet.	Not Applicable	
			Cl. 27.1 Earthing terminals and earthing contacts shall not be connected to the neutral terminal	Not Applicable	
			Cl. 27.1 Class2 & Class 3 appliances shall have no provision for earthing	Not Applicable	

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				A	B
		IS:302-1:2008	Cl. 27.1 Safety extra low voltage circuits shall not be earthed unless they are protective extra low voltage circuit connected to the earthing terminal,	Not applicable	
			Cl. 27.2 The damping means of earthing terminals shall be a adequately secured against accidental loosening	Not applicable	
			Cl. 27.3 If a detachable part having an earth connection is plugged into another part of the appliance the earth connection shall be made before the current carrying connection when removing the part.	Not applicable	
			Cl. 27.4 All Parts of the earthing terminal intended for the connection for external conductors shall be such that there is no ask of corrosion.	Not applicable	
			Cl. 27.5 1 A current derived from source having no load voltage not exceeding 12 V (ac or de) and equal to 1.5 times rated current of the appliance or 25 A, whichever is higher	Not applicable	
			The resistance calculated from the current and this voltage drop shall not exceed 0.1 ()	Not applicable	
30	SCREW AND CONNECTION (Cl.28 of IS:302-2-80:2017)	IS:302-1:2008	Cl. 28 Screw and connections shall comply with Cl 28 of IS 302-1 :2008	Satisfactory	
31	CLEARANCES, CREEPAGE DISTANCE AND SOLID INSULATION (Cl 29 of IS:302-2-80:2017)	IS:302-1:2008	Cl.29.1a)A force of 2 N is applied for bare Conductor	Not applicable	
			b)30 N for accesible surfaces to try to reduce clearances & creepage distances while making the measurements.	Passes the test	
		IS:302-2-80:2017	Cl.29 .2 The micro environment is pollution degree 3 unless the insulation is enclosed or iocated so that is unlikely to be exposed to pollution during normal use of the appliance.	Not applicable	
		IS:302-1:2008	i) Clearance shall not be less than 1.5mm	Passes the test	
			ii) Creepage distance shall not be less than 4.0mm	Passes the test	

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32	Resistance to Heat Fire (Cl30 of IS:302-2-80:2017)	IS:302-1:2008	External parts of non metallic material, parts of insulating material supporting live parts including connections, and parts of thermoplast material providing supplementary or reinforced insulation, shall be sufficiently resistant to heat are subjected to Ball pressure Test as per Cl.30.1 of IS:302-1:2008 a) 75 °C ± 2 °C, for external parts; b) 125 °C ± 2 °C, for parts supporting live parts .	Satisfactory	
			Parts of non metallic material shall be resistant to ignition and spread of fire . Are subjected to glow wire test as per 30 .2 of IS 302-1:2008	Passes the test Passes the test	
33	Resistance to Rusting (Cl 31 of IS 302-2-80:2017)	IS:302-1:2008	Ferrous Parts , the rusting of which might cause the appliance to fail to comply with this standard, shall be adequately protected against rusting as per Cl 31.1 of IS:302-1:2008	No Corrosion Observed	

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