

# DC Motor No Load Run Test Sheet

ForumElectrical.Com

**Location:**

**Date:**

## Name Plate Details

1	Name of Equipment	
2	Code	
3	Kilo Watt (KW)	
4	Armature Voltage ( $V_A$ )	
5	Field Voltage ( $V_F$ )	
6	Armature Current ( $I_A$ )	
7	Field Current ( $I_F$ )	
8	Duty Cycle	
9	Connection Type	
10	Degree of Protection	
11	Class of Insulation	
12	Frame	
14	Serial Number	
15	Make	

## Checklist

S. No	Activity	Result	Remarks
1	Proper Approach & Housekeeping		
2	Ensure that there is no PTW pending on the equipment.		
3	Ensure no one is engaged in work on the equipment.		
4	Make sure the equipment is not running.		
5	Motor is coupled (or) decoupled.		
6	Availability of the main power & control supply		
7	Type of mounting The foot (or) flange & motor foundation bolts are appropriately tightened, and there is no damage to the motor base legs.		
8	Verify that there is no damage to the insulated terminal block or terminal box.		

9	Ensure that the motor and LCS are both double-earthed.		
10	Measure the winding resistance individually (Armature & Field Winding). <ul style="list-style-type: none"> <li>• A<sub>1</sub>-A<sub>2</sub>:</li> <li>• F<sub>1</sub>-F<sub>2</sub>:</li> </ul>		
11	Measure the (IR) insulation resistance of each winding (using a 500V insulation tester). All measurements must be greater than 5 million ohms. If IR value is low, turn on a space heater (or) use external heating. <ul style="list-style-type: none"> <li>• A-E:</li> <li>• F-E:</li> <li>• A-F:</li> </ul>		
12	Ensure any logics & protections are operational.		
13	Remove the permit and the "DO NOT OPERATE" board from feeder.		
14	Put the LOCAL/OFF/REMOTE selector switch in the LOCAL (or) REMOTE position. (As per operation requirements.)		
15	Rack in the breaker (or) feeder.		
16	Switch "ON" the control power MCB.		
17	Check "OFF" indicator on the feeder is flashing.		
18	Give clearance to turn "ON" the feeder from the DCS (or) LCS & validate the DOR.		
19	Check the equipment's current condition.		
20	Check for vibration, noise, (or) any other deviation.		
21	Verify the heating (or) temperature of motor & record on the enclosed test sheet.		
22	Check and confirm spring tension & condition of the brushes.		

LOAD RUN FOR \_\_\_\_\_ Hrs

Stating Current:

Starting Time:

S. No	Time	Voltage (V)	Current (A)	Remarks
		P-N	P-N	
1				

**Temperature Measurement**

S. No	Time	Motor Body	Bearing Temperature		Winding Temperature	Remarks
			DE	NDE		
1						

**Vibration Measurement**

S. No	Time	Permissible Value (mm/sec)	Vibration Value Measured			Remarks
			V	H	A	
1						

**Remarks:** Unauthorized entry should be restricted, and a caution board must be posted.

**Verified By:**

Site Engineer

Testing Engineer