

Maintenance Checklist for Motor Starter

Starter Tag Number		Rating (KW)	
		FLC (Amp)	
Control Fuse Rating		Power Fuse Rating	
Overload Relay Setting		Y/Δ Timer Setting	
PM Due Date		Comp. Date	

S.No	Maintenance Detail	Remarks
1	Take permission from the shift incharge (authorized personnel of operation). Check the Equipment Tag No. before isolating the equipment and starting the work.	
2	Check for an Isolation tag that is properly filled out & displayed in the front of the MCC Feeder of the motor starter that has to be serviced.	
3	Make that the MCC Feeder is turned off and in good working order. The equipment name & tag, the work permission number, the isolation tag, and the MCC Feeder (STARTER) all match.	
4	In the MCC feeder (STARTER), examine the condition of the door hinge knob as well as the gasket.	
5	On both sides, namely the bus-bar (Caution) and the starting side, visually inspect all of the bus bar joints, all cable terminals, and the FSU fuse mounting clamps for any evidence of carbonization, decolorization, or other indications of overheating.	
6	The power and control circuit wiring of the motor starting should be examined for decolorization, burns, peeling off of the insulation, connectivity tightness, and other issues. This includes the primary, star/delta contactors, as well as the thermal over load relay, the single phase preventer, and the Y/ Δ timer. Check the connection between the lugs by drawing the wire.	
7	Check the tightness of the connections as well as the physical condition of the cables and lugs that are going out.	

S.No	Maintenance Detail	Remarks
8	In order to remove any dust from the starter, clean it with a dry cloth.	
9	Ensure that all CT and PT machines are in good physical condition and that they are connected correctly. Also make sure the ammeter is functioning correctly. Any abnormality that gets noticed will result in action being taken.	
10	The continuity tester should be used to examine the healthiness of the all fuses, as well as their sizes and ratings. Additionally, the rating should be compared to the associated scheme drawing. If the order is not correct, make adjustments.	
11	It is necessary to open it in order to examine the contact tips, arch chute, and coil. Replace in this occurrence that any irregularities or pitting are found. The contactor should be physically pressed, and the free movement should be checked. The contactor assembly should be cleaned.	
12	Performs a check on the condition of the control wires by inserting the control fuse and ensuring that all of the indication lamps are functioning correctly.	
13	Check the thermal overload relay protection and star/delta starter timer settings. The standard setting is as per the associated setting schedule, and the single phase preventer is operational.	
14	Using a 500 V megger, check the insulation resistance (IR) value of the power and control wiring. Also, make a note in the check sheet.	Power wiring IRV: Control wiring IRV :

Replace any spare part if necessary.

Any notable abnormalities found?

Checked By:

Date:

Electrical Technician:

Shift Engineer: