

ELECTRICAL A. MODERN FACTORY COMPANY

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Format No. FM 19-04 Rev.04 **ROUTINE VERIFICATION CERTIFICATE**

Date: 01/02/2021 Order No.: 10617 Tag No.: MDB.6

Item No.: 01 Customer: MZQ CONTRACTING EST. Drawing No.: DP-34347-20

Power switchgear and controlgear assembly (PSC)

Un: 400VAC

IEC 61439	Distribution boards intended to be operated by ordinary persons (DBO)		InA: 4000A	
	Test Description	YES	NO	N/A
Section	rest Description	1123	100	IV/A

11.2 Degree of protection of enclosures • Degree of protection as specified (Visual test) All gaskets intact

 Door is aligned (no damages) Clearances and creepage distances

11.3 • Clearances and creepage distances as per standard

Protection against electric shock and integrity of protective circuits 11.4

• All live terminals are covered to IP2X Doors are earthed

• Earth is connected to metal frame in all sections

Incorporation of built-in components

11.5 • Busbar dimensions and supports are as specified

• Busbars identification are as specified Breakers ratings and settings are as specified

Internal electrical circuits & connections 11.6

Loose-free connection at joints

• Pressure washers on sides of connection • Torque checked of all connections/joints

Terminals for external conductors 11.7

• Terminals sizes and numbers are sufficient • Terminals identification are as specified

Sufficient space for incomming/outgoing cables

Mechanical operation 11.8

• All mechanical interlocks are working • All manually operated components are working V V Doors (including locks) are easily open and close

Dielectric properties 11.9

• The Test voltage for power switchgear and control gear assemblies with a rated insulation voltage between 300-690V AC is 2,670 V d.c. for 1 second.

Phase/Phase	≥1000	ΜΩ
Phase/Neutral	≥1000	ΜΩ
Phase/Earth	≥1000	ΜΩ
Neutral/Earth	≥1000	ΜΩ

• For assemblies with incoming protection rated up to 250 A, the verification of insulation resistance may be by measurement at a voltage of 500 V d.c.

Test is satisfactory if the insulation resistance between circuits and exposed conductive parts is at least 1000 Ω/V

Insulation Resistance: ≥1000 Ω/V

Wiring, operational performance & function

- Busbar and power continuity test point to point
- Earth continuity test
- Overload and tripping functions















Date

QA/QC

Elect. Engineer

01/02/2021

