



شركة أبوظبي للتوزيع
Abu Dhabi Distribution Co.

**Guideline
For
Design, Testing and Installation
Of LV Switchgear**

GL.GN.02

Effective Date : 01/02/2012

Procedure No: GL.GN.02

Issue : 2 Revision : 1

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Approved by:

Name of the Switchgear Manufacturer/Assembling Company :

DETAILS OF TYPE TESTS FOR THE SWITCHGEAR (MDB/MCC/SMDB/ATS/FDB) Note: Use separate sheet for each items

SI No.	Current Rating Amps	Test Details Sub Clause of IEC 61439-1 (Please ✓ where applicable)										Type Certificate Issuing Authority & Type Report Number	Bus Bar size (Width & Thickness) (mm)			Rated Operational Voltage Ue	Rated insulation Voltage Ui	Short withstand and time (Icu ,kA, and Second)
		10.2	10.3	10.4	10.5	10.9	10.10	10.11	10.12	10.13	Phase Bar		Neutral Bar	Earth Bar				
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

Sub Clauses of IEC 61439-1

TEST DETAILS

10.2	Strength of materials and parts
10.3	Degree of protection of ASSEMBLIES
10.4	Clearances and creepage distances
10.5	Protection against electric shock and integrity of protective circuits
10.9	Dielectric properties
10.10	Verification of temperature rise
10.11	Short-circuit withstand strength
10.12	Electromagnetic compatibility (EMC) (Note: This is to be carried out where there is electronic components are installed in the LV Board (Soft starter/VFD for MCC Panel))
10.13	Mechanical operation



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DETAILS OF TYPE TESTS FOR LOW VOLTAGE CAPACITOR BANKS NOTE: USE SEPARATE SHEET FOR EACH ITEMS

SL NO.	KVAR RATING	TEST DETAILS SUB CLAUSE OF IEC 61921 (PLEASE ✓ WHERE APPLICABLE)							TYPE TEST CERTIFICATE ISSUING AUTHORITY & TEST REPORT NUMBER	CURRENT RATING IN AMPS	BUS BAR SIZE (WIDTH & THICKNESS) (MM)			RATED OPERATIONAL VOLTAGE (UE)	RATED INSULATION VOLTAGE (UI)	SHORT CIRCUIT WITHSTAND STRENGTH AND TIME (ICU ,KA, AND SECOND)
		7.2.1	7.2.2	7.2.3	7.2.4	7.2.5	7.2.6	7.2.7			PHASE BAR	NEUTRAL BAR	EARTH BAR			
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
SUB CLAUSES OF IEC 61921																
7.2.1	VERIFICATION OF TEMPERATURE-RISE LIMITS															
7.2.2	VERIFICATION OF DIELECTRIC PROPERTIES															
7.2.3	VERIFICATION OF SHORT-CIRCUIT WITHSTAND STRENGTH															
7.2.4	VERIFICATION OF THE EFFECTIVENESS OF THE PROTECTION CIRCUIT															
7.2.5	VERIFICATION OF CLEARANCES AND CREEPAGE DISTANCES															
7.2.6	VERIFICATION OF MECHANICAL OPERATION															
7.2.7	VERIFICATION OF DEGREE OF PROTECTION															