



Powercor Australia Ltd
ABN 89 064 651 109

A. Transformers-Kiosk -Three Phase - Test Report

Job Title:

Test Instrument Model		Instrument No.	
Test Instrument Model		Instrument No	
Tested by		Date	

DSM (location) Number	
Make	
Serial Number	
Rating	
Voltage	
Tap Setting	

CONTINUITY TESTS on SWITCHES (HV Fuses Removed) ALL SWITCHES CLOSED							
		Switch 2			Switch 3		
		A	B	C	A	B	C
Switch 1	A	(∞)			(∞)		
	B		(∞)			(∞)	
	C			(∞)			(∞)

INSULATION RESISTANCE TESTS on SWITCHES (HV Fuses Removed)		
	Test on Switch 1	Results
Switch 1, 2 and 3 are Closed,	A-B	(>1GΩ)
	A-C	(>1GΩ)
	B-C	(>1GΩ)

INSULATION RESISTANCE TESTS on SWITCHES (HV Fuses Removed)				
		Switch 2 CLOSED		
		A	B	C
Switch 1 OPEN	A	(>1GΩ)		
	B		(>1GΩ)	
	C			(>1GΩ)

INSULATION RESISTANCE TESTS on SWITCHES (HV Fuses Removed)				
		Switch 3 CLOSED		
		A	B	C
Switch 2 OPEN	A	(>1GΩ)		
	B		(>1GΩ)	
	C			(>1GΩ)

INSULATION RESISTANCE TESTS on SWITCHES (HV Fuses Removed)				
		Switch 1 CLOSED		
		A	B	C
Switch 3 OPEN	A	(>1GΩ)		
	B		(>1GΩ)	
	C			(>1GΩ)

CONTINUITY AND INSULATION RESISTANCE TESTS on TRANSFORMER					
Three phase					
HV Load Switch Closed		A-B	A-C	B-C	Expected Value
Service Tap		Ω	Ω	Ω	Ω
		A	B	C	
	A - transformer tank	MΩ			>1000MΩ (1GΩ)
LV	Red-neutral	A-B	A-C	B-C	
	Ω	Ω	Ω	Ω	Ω
		A	B	C	
	a - transformer tank	MΩ	MΩ	MΩ	>10MΩ
HV-LV	HV - LV	MΩ	MΩ	MΩ	>1000MΩ (1GΩ)

VOLTAGE TEST	
Three phase	
Red to Neutral	V
White to Neutral	V
Blue to Neutral	V
Red to White	V
White to Blue	V
Blue to Red	V

PHASE IDENTIFICATION TEST	
Phase Checked	

PHASE OUT TEST	
Three Phase	
Red to Red	
White to White	
Blue to Blue	

EARTH RESISTANCE TEST	
Substation Type (tick type applicable)	
Kiosk	

Earthing System (tick system applied)	Earthing arrangement (tick applied arrangement)
CMEN	Common
MEN	Bonded HV/LV
IMEN	Separate HV/LV

Maximum Resistance			
Earth System to Ground		Allowed (Refer to CB011)	Measured
	HV	Ω	Ω
	LV	Ω	Ω
	Common	Ω	Ω
Neutral to Ground		Ω	Ω

CHECKLIST		
Items	Checked	Comment (if any)
All required tests satisfactorily completed as per CB011		
HV metalclad switchgear tests satisfactorily completed as per CB021, if applicable		
Substation and complete installation complies with the work instruction requirements a) Is the transformer the correct polarity? b) Correct Vector Group? c) Correct Rating?		
No visible damage		
Is the correct earthing system installed		
Is the appropriate earth conductor size used		
Fuses appropriate for substation size are correctly installed where applicable		
Have all breather caps been removed as required		
Is the transformer oil level correct		
Insulating caps placed on unused bushings (kiosk substation only)		
Signs and Labels		
Ensure all signage and labelling complies with DS411		

Commissioning Test Passed Yes - No -

Comments

Signed:

Date: