MOTOR PROTECTION RELAY TEST RECORD Quality Control Form	DOC No. : ISSUE DATE. : PAGE.: of

EQUIP. LOCATION :		PANEL No. :	
MANUFACTURE :		SERIAL No. :	
RELAY TYPE :		CELL No. :	
AUX SUPPLY (V) :		RATED FREQUENCY :	
TEMP. :	HUMIDITY :	TEST DATE :	
U aux	SETTING :	FREQUNCY :	I CR

1.0 THERMAL PROTECTION (49) :

1.1 Operation Current & Sensitivity Check :

Function	C.T Ratio	Setting Value					Remarks
		Ib (A)	T 1	Es 1	Es 2	Es 0	

1.2 Operation Time Measurement :

Function	ϕA (at 2 * Is)				ϕB (at 2 * Is)				ϕC (at 2 * Is)				Remarks
	Hot		Cold		Hot		Cold		Hot		Cold		
	Theoretical Value(s)	Relay Value(s)	Theoretical Value(s)	Relay Value(s)	Theoretical Value(s)	Relay Value(s)	Theoretical Value(s)	Relay Value(s)	Theoretical Value(s)	Relay Value(s)	Theoretical Value(s)	Relay Value(s)	

2.0 OVERCURRENT PROTECTION (50 / 51) : Pick-up / Drop out Ratio x (93.5% ±5%)

2.1 Operation Current & Sensitivity Check :

Function	C.T Ratio	Setting Value			ϕA			ϕB			ϕC			Remarks
					Pick-up		Drop-out Thresholds	Pick-up		Drop-out Thresholds	Pick-up		Drop-out Thresholds	
		Is(A)	T(s)	Curve	Theoretical Value(A)	Relay Value(A)		Theoretical Value(A)	Relay Value(A)		Theoretical Value(A)	Relay Value(A)		

1) Test Voltage

2.2 Operation Time Measurement :

Function	ϕA				ϕB				ϕC				Remarks
	At 2 * Is		At 10 * Is		At 2 * Is		At 10 * Is		At 2 * Is		At 10 * Is		
	Theoretical Value(S)	Relay Value(S)	Theoretical Value(S)	Relay Value(S)	Theoretical Value(S)	Relay Value(S)	Theoretical Value(S)	Relay Value(S)	Theoretical Value(S)	Relay Value(S)	Theoretical Value(S)	Relay Value(S)	

Remarks :

Subcontractor :	Contractor :	Company :
Vendor's Engr. Data	Name / Sign Date	Name / Sign Date
Subcon Testing Team Data		

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3.0 EARTH FAULT PROTECTION (46) : Pick-Up / Drop Out Ratio x (93.5% ±5%)

3.1 Operation Current & Sensitivity Check :

Function	C.T Ratio	Setting Value			Pick-Up Threshold		Drop-Out Threshold	Time		Remarks
		Is(A)	T(s)	Curve	Theoretical Value(A)	Relay Value(A)		Theoretical Value(s)	Relay Value(s)	

4.0 UNBALANCE & LOSS OF PHASE (46) : Pick-Up / Drop Out Ratio x (93.5% ±5%)

4.1 Operation Current & Sensitivity Check :

Function	C.T Ratio	Setting Value			ϕA			ϕB			ϕC			Remarks
					Pick-up		Drop-out Thresholds	Pick-up		Drop-out Thresholds	Pick-up		Drop-out Thresholds	
		Is(A)	T(S)	Curve	Theoretical Value(A)	Relay Value(A)		Theoretical Value(A)	Relay Value(A)		Theoretical Value(A)	Relay Value(A)		

4.2 Operation Time Measurement :

Function	ϕA				ϕB				ϕC				Remarks
	At 2 * Is		At 10 * Is		At 2 * Is		At 10 * Is		At 2 * Is		At 10 * Is		
	Theoretical Value(S)	Relay Value(S)	Theoretical Value(S)	Relay Value(S)	Theoretical Value(S)	Relay Value(S)	Theoretical Value(S)	Relay Value(S)	Theoretical Value(S)	Relay Value(S)	Theoretical Value(S)	Relay Value(S)	

5.0 EXCESSIVE STARTING TIME & LOCKED PROTOR (48, 51 LR)

5.1 Operation Current & Time Measurement:

Function	Pick-Up Threshold		Drop-Out	Time			
	Theoretical Value(A)	Relay Value(A)		Theoretical Value(A)		Relay Value(A)	
				ST	LT	ST	LT

Remarks :

Subcontractor :	Contractor :	Company :
Vendor's Engr. Data	Name / Sign Date	Name / Sign Date
Subcon Testing Team Data		