

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 :			FREQUENCY :				I CR						
1.0 THERMAL PROTECTION (49) :															
1.1 Operation Current & Sensitivity Check :															
Function	C.T Ratio	Setting Value										Remarks			
		I_b (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
		Is(A)	T(s)	Curve	Pick-up		Drop-out Thresholds	Pick-up		Drop-out Thresholds	Pick-up		Drop-out Thresholds		
					Theoretical Value(A)	Relay Value(A)		Theoretical Value(A)	Relay Value(A)		Theoretical Value(A)	Relay Value(A)			
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. _____				Name / Sign _____				Name / Sign _____							
Data _____				Date _____				Date _____							
Subcon Testing Team _____															
Data _____															

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TEMP. :				HUMIDITY :				TEST DATE :						
U aux		SETTING :				FREQUENCY :				ICR				
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
		Is(A)	T(S)	Curve	Pick-up		Drop-out Thresholds	Pick-up		Drop-out Thresholds	Pick-up		Drop-out Thresholds	
					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)						
Remarks :														
Subcontractor :				Contractor :				Company :						
Vendor's Engr. _____				Name / Sign _____				Name / Sign _____						
Data _____				Date _____				Date _____						
Subcon Testing Team _____														
Data _____														