

DISTRIBUTION COMMISSIONING FORM (DCF) 3.5 – SWER Isolation Transformer (Pole Mounted)



Purpose: This form covers the testing and commissioning requirements for new or replacement pole mounted SWER isolation transformers up to 200 kVA before energisation.

For more information refer to the *Distribution Commissioning Forms Guideline (EDM 34137510)*

Notes: The following tests and checks must be carried out after installation and before the transformer is put into service.

Address/Pole No.			
Work Package No.		SPIDAWeb Pick ID:	

1. Transformer Checks

- Ensure that the earth resistance has been tested and is acceptable.
- Ensure all electrical connections have been disconnected, including MEN links/N-E links.
- Record the insulation resistance after 1 minute of testing.

Stock number	XT 0189, XT 0190, XT 0195	XT 0198, XT 0196	XT 0192	XT 0193
Transformer type				
Transformer diagram				
Insulation resistance test using 2.5 kV (greater than 1 GΩ acceptable)	A10 to SW Ω	SW3 to Tank Ω	SW1 to SW2 Ω	A8 to SW Ω
	A10 to Tank Ω		SW1 to Tank Ω	A8 to Tank Ω
Winding continuity test using 1 kV (0 Ω acceptable)	A10 to A1 Ω	SW3 to ER Ω	SW1 to ER1 Ω	A8 to A1 Ω
	SW to ER Ω	SW2 to ER Ω	SW2 to ER2 Ω	SW to ER Ω

2. Installation and Construction Checks

Earthing	Ensure that the earth resistance test (DCF 4.1) has been completed with acceptable results (<30 Ω) prior to commissioning.	
Inspect the following: <ul style="list-style-type: none"> • rating plate • tank and bushings • tap setting • wiring • neutral connection • MEN links /N-E connections 	Transformer matches system voltage.	
	Transformer installed as per construction standards and applicable design drawings.	
	HV bushings connected.	
	Neutral connected and earthed and MEN links /N -E links reconnected.	
	Transformer tap is at the position as per design/network planning or previously installed transformer.	
	Transformer bushings and tank in good condition (no oil leak).	
	All SPIDAWeb labels fitted and numbered correctly as per SPIDAWeb sheet.	

