

WG13 Issues - CIM Issues #5108

PowerTransformerEnd

10/20/2021 11:10 AM - Chavdar Ivanov

Status:	Closed		
Priority:	Normal		
Target version:			
Author/Contact Info:	Chavdar Ivanov	Standard(s):	61970-301
Base Release:		Version:	Ed7
Solution to be Applied To:	CIM18v03	Clause:	
Solution Version:	CIM18v03	Sub-Clause:	
Solution Applied By:	Chavdar Ivanov	Paragraph:	
Completion Date:	02/11/2023	Table:	
CIM Keywords:		Originally Closed in Version:	
Breaking Change:	No	Origination Date:	
Breaking Change Description:		Origination ID:	
CIM Impacted Groups:	WG13	Originally Assigned To:	
Requestor:			

Description

The description of the PowerTransformerEnd includes the following part which is ambiguous

1) for a two Terminal PowerTransformer the high voltage (TransformerEnd.endNumber=1) PowerTransformerEnd has non zero values on r, r0, x, and x0 while the low voltage (TransformerEnd.endNumber=2) PowerTransformerEnd has zero values for r, r0, x, and x0. Parameters are always provided, even if the PowerTransformerEnds have the same rated voltage. In this case, the parameters are provided at the PowerTransformerEnd which has TransformerEnd.endNumber equal to 1.

There are overlap of statements and also a statement that endNumber=1 winding "has non zero values on r, r0, x, and x0" which can be understood that if it is an issue if one of those values is zero. In addition the statement "Parameters are always provided" suggests that these parameters are required which is not the case

Proposed Solution

Proposal is to replace that part of the description with the following text

1) two PowerTransformerEnd-s shall be defined for a two Terminal PowerTransformer even if the two PowerTransformerEnd-s have the same rated voltage. The high voltage PowerTransformerEnd (TransformerEnd.endNumber=1) is the one used to exchange resistances (r, r0) and reactances (x, x0) of the PowerTransformer while the low voltage PowerTransformerEnd (TransformerEnd.endNumber=2) shall have zero impedance values ,if provided .

Decision

UTF decided (Minneapolis meeting Sep 2022) to update the description

1) two PowerTransformerEnd-s shall be defined for a two Terminal PowerTransformer even if the two PowerTransformerEnd-s have the same rated voltage. The high voltage PowerTransformerEnd (TransformerEnd.endNumber=1) is the one used to exchange resistances (r, r0) and reactances (x, x0) of the PowerTransformer while the low voltage PowerTransformerEnd (TransformerEnd.endNumber=2) shall have zero impedance values

Release Notes

Part of the description of PowerTransformerEnd ws updated to

1) two PowerTransformerEnd-s shall be defined for a two Terminal PowerTransformer even if the two PowerTransformerEnd-s have the same rated voltage. The high voltage PowerTransformerEnd (TransformerEnd.endNumber=1) is the one used to exchange resistances (r, r0) and reactances (x, x0) of the PowerTransformer while the low voltage PowerTransformerEnd (TransformerEnd.endNumber=2) shall have zero impedance values.

History

#1 - 01/09/2022 09:02 PM - Yang Feng

[Yang] The last sentence in the proposed context by Chavdar should be revised to "...shall have zero impedance values, if **not** provided."

#2 - 09/22/2022 04:00 PM - Eric Stephan

- *Proposed Solution updated*

#3 - 09/22/2022 04:01 PM - Eric Stephan

- *Status changed from New to Open*

#4 - 09/22/2022 04:02 PM - Eric Stephan

- *Status changed from Open to In Progress*

9/22/2022 WG agreed to drop ", if provided" statement in Proposed Solution.

#5 - 02/11/2023 01:14 AM - Chavdar Ivanov

- *Status changed from In Progress to Closed*

- *Solution Version set to CIM18v03*

- *Solution Applied By set to Chavdar Ivanov*

- *Completion Date set to 02/11/2023*

- *Decision updated*

- *Release Notes updated*

#6 - 10/20/2023 10:18 AM - Todd Viegut

- *Solution to be Applied To changed from CIM18 to CIM18v03*