ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4) L74221 - TRANSFORMERS

Learning Legacy Document

Document Number: **CRL1-XRL-Z3-ADDSD-CR001-50093**

Document Revision: **6.0**

Document History:

Revision:	Date:	Prepared by:	Checked by:	Authorised by:	Reason for Issue:
1.0	09-Nov-2012	[redacted]	[redacted]	[redacted]	First issue
2.0	17-May-2013	Loukia Sivena	[redacted]	[redacted]	Standardisation of Attribute Names and New Branding
3.0	03-Jun-2014	[redacted]	[redacted]	[redacted]	Correction of Attribute Names Asset Tag Identification Section Updated
4.0	19-Sep-2014	[redacted]	[redacted]	[redacted]	Updated Attributes Approvals Added Consultations Removed
5.0	21-Aug-2015	[redacted]	[redacted]	[redacted]	New Attribute
6.0	27-Aug-2015	[redacted]	[redacted]	[redacted]	Labelling Section Updated

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1 Introduction

1.1 Asset Details

Class Code:	L74221
Class Name:	Transformers
Class Lineage:	Construction Products>Services>Electric power and lighting services products>Transformation devices>Transformers/converters>Transformers

1.2 Description

A transformer is an electrical device usually consisting of two windings around a common core used to increase or decrease a supply voltage. It is part of the traction supply power system and OHLE system. Located at regular intervals alongside rail tracks, their primary function is to feed electric power to the trains via the overhead wire.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

2 Asset Tag Identification Rules

Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031) in the following format:

<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. CR076-BAF-12345

Information and guidance on the standard naming convention for all asset classes is contained within the latest revision of the Asset Naming Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

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2.1 Example Images

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3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Weight (Kilograms)	Kilograms	NU	2		Weight of the transformer
Frequency (Hertz)	Hertz	NU	0		The frequency of the transformer
Height (Millimetres)	Millimetres	NU			Height of the transformer enclosure
Input Current (Amps)	Amps	NU	0		The current through the input winding
Input Voltage (Volts)	Volts	NU	0		The voltage of the input winding
IP Rating		CH			Ingress Protection rating of the transformer enclosure in form IPXX
Length (Millimetres)	Millimetres	NU			Length of the transformer enclosure
Neutral Current (Amps)	Amps	NU	0		Neutral current
Neutral Current Continuous (Amps)	Amps	NU	0		Neutral current continuous
Output Current (Amps)	Amps	NU	0		The current through the output winding
Output Voltage (Volts)	Volts	NU	0		The voltage of the output winding

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Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places** (nu Only)	**Defined Values List** (pd only)	**Description**
Transformer Function Type		PD		General Power Traction Power	Function Type
Width (Millimetres)	Millimetres	NU	0		Width of the transformer enclosure
Weight (Kilograms)	Kilograms	NU	2		Total Weight of asset

pd = Predefined List (Listed Values Only)
nu = Numeric (dp and number format can be stipulated)
ch = Free text (Max 255 Characters)
da = Date (dd-mm-yyyy)
me = Memo (Free text 1GB Limit)

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4 Performance Data

This section is to be used to specify the performance data to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with the Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

Not Applicable

7 Reference Material

- Asset Data Dictionary Master Configuration document - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- Asset Naming Convention Document - CRL1-XR1-Z3-ADDSD-CR001-50413

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8 Crossrail Technical Approvals

Name	Role	Date
[redacted]	Traction Power	19-Sep-2014

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