

Certificate of Acceptance

OFFICIAL
PA05/07022

Manufacturer:
ATL Transformers Ltd

Issue : 6
Valid From : 30/05/2025

ATL Indoor PSP/ASP Power Transformers

Product Description

Range of Aluminium wound, Class I signalling power transformers.

For use in signalling power, PSP/ASP applications.

Transformer range comprises:

5 – 80kVA Bi-Phase as listed in product configuration.

10 – 120kVA Three-Phase as listed in product configuration.

Vector Groups include:	Voltage Variants include:
Delta/Star	400/230 VAC
Delta/Delta	400/400 VAC
Star/Delta	400/650 VAC
	650/230 VAC
	650/400 VAC
	650/650 VAC
	230/110 VAC
	230/230 VAC
	230/650 VAC
	415/110 VAC

Product Image



Scope of Acceptance

Full Acceptance

Range of Class I, IP32 indoor rated signalling power transformers. The range includes both Bi-Phase and Three-Phase variants manufactured in accordance with IEC 60076 enhanced with relevant clauses from BR924A and NR/L2/SIGELP/30007.

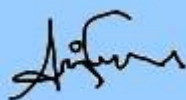
Full details of the product range can be seen in tables below (system and complete assembly).

Designed for operation in ambient environments -20°C to +60°C for use in buildings (indoors) only.

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Reviewed by:

Authorised by:



Aamir Malik
Product Acceptance Coordinator



Dom Banham-Hall
Network Technical Head of Power Distribution HV/LV

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OFFICIAL
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Issue : 6
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Specific Conditions

The following Conditions are specific to the approved product/s contained within this Certificate. These conditions must be adhered to in addition to the Network Rail General Conditions contained within the "General Terms and Conditions" section.

Failure to adhere to these conditions may result in the withdrawal or suspension of Acceptance of some, or all of the items contained within the accepted configuration.

Manufacturer

1)	As per the scope of acceptance of this certificate.
2)	O&M manuals to be provided with each installation.
3)	Manufactured in accordance with IEC 60076 and enhanced with clauses BR924A and NR/L2/SIGELP/30007.
4)	Transformer assemblies detailed on this certificate shall be tested in accordance with factory test specification Doc Ref: QF51 or QF60 as required.
5)	Test records will be retained for auditing purposes.
6)	The manufacturer will retain certificates of conformity to EN AW-1370(AA1370 equivalent) of all aluminium winding wire used in the construction of transformer detailed within this certificate.

User

1)	As per the scope of acceptance of this certificate.
2)	The equipment shall be installed and operated in accordance with the manufacturers documentation.
3)	No spare parts shall be offered for any product detailed within this certificate.
4)	Only for use within buildings, equipment operating environment -20°C to +60°C.

Product Configuration

System or Complete Assembly BI-Phase

Part No.	Description	Catalogue No.
400/650V Transformers		
T2987	5kVA Bi-Phase 400/650V Signalling Power Transformer	0054/215008
T2909	10kVA Bi-Phase 400/650V Signalling Power Transformer	0054/215009
T3077	15kVA Bi-Phase 400/650V Signalling Power Transformer	0054/215010
T2910	20kVA Bi-Phase 400/650V Signalling Power Transformer	0054/215011
T3078	25kVA Bi-Phase 400/650V Signalling Power Transformer	0054/215012
T2911	30kVA Bi-Phase 400/650V Signalling Power Transformer	0054/215013
T3079	35kVA Bi-Phase 400/650V Signalling Power Transformer	0054/215014
T2912	40kVA Bi-Phase 400/650V Signalling Power Transformer	0054/215015
T3103	50kVA Bi-Phase 400/650V Signalling Power Transformer	0054/215016
T2913	60kVA Bi-Phase 400/650V Signalling Power Transformer	0054/215017
T3320	80kVA Bi-Phase 400/650V Signalling Power Transformer	0054/215018
230/650V Transformers		
T2987-1	5kVA Bi-Phase 230/650V Signalling Power Transformer	0054/215019
T2909-1	10kVA Bi-Phase 230/650V Signalling Power Transformer	0054/215020
T3077-1	15kVA Bi-Phase 230/650V Signalling Power Transformer	0054/215021
T2910-1	20kVA Bi-Phase 230/650V Signalling Power Transformer	0054/215022
T3078-1	25kVA Bi-Phase 230/650V Signalling Power Transformer	0054/215023
T2911-1	30kVA Bi-Phase 230/650V Signalling Power Transformer	0054/215024
T3079-1	35kVA Bi-Phase 230/650V Signalling Power Transformer	0054/215025

Certificate of Acceptance

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PA05/07022

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Issue : 6
Valid From : 30/05/2025

Part No.	Description	Catalogue No.
T2912-1	40kVA Bi-Phase 230/650V Signalling Power Transformer	0054/215026
T3103-1	50kVA Bi-Phase 230/650V Signalling Power Transformer	0054/215027
T2913-1	60kVA Bi-Phase 230/650V Signalling Power Transformer	0054/215028
T3320-1	80kVA Bi-Phase 230/650V Signalling Power Transformer	0054/215029
650/650V Transformers		
T2987-2	5kVA Bi-Phase 650/650V Signalling Power Transformer	0054/215030
T2909-2	10kVA Bi-Phase 650/650V Signalling Power Transformer	0054/215031
T3077-2	15kVA Bi-Phase 650/650V Signalling Power Transformer	0054/215032
T2910-2	20kVA Bi-Phase 650/650V Signalling Power Transformer	0054/215033
T3078-2	25kVA Bi-Phase 650/650V Signalling Power Transformer	0054/215034
T2911-2	30kVA Bi-Phase 650/650V Signalling Power Transformer	0054/215035
T3079-2	35kVA Bi-Phase 650/650V Signalling Power Transformer	0054/215036
T2912-2	40kVA Bi-Phase 650/650V Signalling Power Transformer	0054/215037
T3103-2	50kVA Bi-Phase 650/650V Signalling Power Transformer	0054/215038
T2913-2	60kVA Bi-Phase 650/650V Signalling Power Transformer	0054/215039
T3320-2	80kVA Bi-Phase 650/650V Signalling Power Transformer	0054/215040
400/230V Transformers		
T2987-3	5kVA Bi-Phase 400/230V Signalling Power Transformer	0054/215041
T2909-3	10kVA Bi-Phase 400/230V Signalling Power Transformer	0054/215042
T3077-3	15kVA Bi-Phase 400/230V Signalling Power Transformer	0054/215043
T2910-3	20kVA Bi-Phase 400/230V Signalling Power Transformer	0054/215044
T3078-3	25kVA Bi-Phase 400/230V Signalling Power Transformer	0054/215045
T2911-3	30kVA Bi-Phase 400/230V Signalling Power Transformer	0054/215046
T3079-3	35kVA Bi-Phase 400/230V Signalling Power Transformer	0054/215047
T2912-3	40kVA Bi-Phase 400/230V Signalling Power Transformer	0054/215048
T3103-3	50kVA Bi-Phase 400/230V Signalling Power Transformer	0054/215049
T2913-3	60kVA Bi-Phase 400/230V Signalling Power Transformer	0054/215050
T3320-3	80kVA Bi-Phase 400/230V Signalling Power Transformer	0054/215051
230/230V Transformers		
T2987-4	5kVA Bi-Phase 230/230V Signalling Power Transformer	0054/215052
T2909-4	10kVA Bi-Phase 230/230V Signalling Power Transformer	0054/215053
T3077-4	15kVA Bi-Phase 230/230V Signalling Power Transformer	0054/215054
T2910-4	20kVA Bi-Phase 230/230V Signalling Power Transformer	0054/215055
T3078-4	25kVA Bi-Phase 230/230V Signalling Power Transformer	0054/215056
T2911-4	30kVA Bi-Phase 230/230V Signalling Power Transformer	0054/215057
T3079-4	35kVA Bi-Phase 230/230V Signalling Power Transformer	0054/215058
T2912-4	40kVA Bi-Phase 230/230V Signalling Power Transformer	0054/215059
T3103-4	50kVA Bi-Phase 230/230V Signalling Power Transformer	0054/215060
T2913-4	60kVA Bi-Phase 230/230V Signalling Power Transformer	0054/215061
T3320-4	80kVA Bi-Phase 230/230V Signalling Power Transformer	0054/215062
650/230V Transformers		
T2987-5	5kVA Bi-Phase 650/230V Signalling Power Transformer	0054/215063
T2909-5	10kVA Bi-Phase 650/230V Signalling Power Transformer	0054/215064
T3077-5	15kVA Bi-Phase 650/230V Signalling Power Transformer	0054/215065
T2910-5	20kVA Bi-Phase 650/230V Signalling Power Transformer	0054/215066
T3078-5	25kVA Bi-Phase 650/230V Signalling Power Transformer	0054/215067
T2911-5	30kVA Bi-Phase 650/230V Signalling Power Transformer	0054/215068
T3079-5	35kVA Bi-Phase 650/230V Signalling Power Transformer	0054/215069
T2912-5	40kVA Bi-Phase 650/230V Signalling Power Transformer	0054/215070
T3103-5	50kVA Bi-Phase 650/230V Signalling Power Transformer	0054/215071
T2913-5	60kVA Bi-Phase 650/230V Signalling Power Transformer	0054/215072

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Issue : 6
Valid From : 30/05/2025

Part No.	Description	Catalogue No.
T3320-5	80kVA Bi-Phase 650/230V Signalling Power Transformer	0054/215073
230/110V Transformers		
T2987-6	5kVA Bi-Phase 230/110V Signalling Power Transformer	0054/215164
T2909-6	10kVA Bi-Phase 230/110V Signalling Power Transformer	0054/215165
T3077-6	15kVA Bi-Phase 230/110V Signalling Power Transformer	0054/215166
T2910-6	20kVA Bi-Phase 230/110V Signalling Power Transformer	0054/215167
T3078-6	25kVA Bi-Phase 230/110V Signalling Power Transformer	0054/215168
T2911-6	30kVA Bi-Phase 230/110V Signalling Power Transformer	0054/215169
T3079-6	35kVA Bi-Phase 230/110V Signalling Power Transformer	0054/215170
T2912-6	40kVA Bi-Phase 230/110V Signalling Power Transformer	0054/215171
T3103-6	50kVA Bi-Phase 230/110V Signalling Power Transformer	0054/215172
T2913-6	60kVA Bi-Phase 230/110V Signalling Power Transformer	0054/215173
T3320-6	80kVA Bi-Phase 230/110V Signalling Power Transformer	0054/215174
650/400V Transformers		
T2987-8	5kVA Bi-Phase 650/400V Signalling Power Transformer	0054/215175
T2909-8	10kVA Bi-Phase 650/400V Signalling Power Transformer	0054/215176
T3077-8	15kVA Bi-Phase 650/400V Signalling Power Transformer	0054/215177
T2910-8	20kVA Bi-Phase 650/400V Signalling Power Transformer	0054/215178
T3078-8	25kVA Bi-Phase 650/400V Signalling Power Transformer	0054/215179
T2911-8	30kVA Bi-Phase 650/400V Signalling Power Transformer	0054/215180
T3079-8	35kVA Bi-Phase 650/400V Signalling Power Transformer	0054/215181
T2912-8	40kVA Bi-Phase 650/400V Signalling Power Transformer	0054/215182
T3103-8	50kVA Bi-Phase 650/400V Signalling Power Transformer	0054/215183
T2913-8	60kVA Bi-Phase 650/400V Signalling Power Transformer	0054/215184
T3320-8	80kVA Bi-Phase 650/400V Signalling Power Transformer	0054/215185
400/400V Transformers		
T2987-9	5kVA Bi-Phase 400/400V Signalling Power Transformer	0054/215186
T2909-9	10kVA Bi-Phase 400/400V Signalling Power Transformer	0054/215187
T3077-9	15kVA Bi-Phase 400/400V Signalling Power Transformer	0054/215188
T2910-9	20kVA Bi-Phase 400/400V Signalling Power Transformer	0054/215189
T3078-9	25kVA Bi-Phase 400/400V Signalling Power Transformer	0054/215190
T2911-9	30kVA Bi-Phase 400/400V Signalling Power Transformer	0054/215191
T3079-9	35kVA Bi-Phase 400/400V Signalling Power Transformer	0054/215192
T2912-9	40kVA Bi-Phase 400/400V Signalling Power Transformer	0054/215193
T3103-9	50kVA Bi-Phase 400/400V Signalling Power Transformer	0054/215194
T2913-9	60kVA Bi-Phase 400/400V Signalling Power Transformer	0054/215195
T3320-9	80kVA Bi-Phase 400/400V Signalling Power Transformer	0054/215196
415/110V Transformers		
T2987-10	5kVA Bi-Phase 415/110V Signalling Power Transformer	0054/215197
T2909-10	10kVA Bi-Phase 415/110V Signalling Power Transformer	0054/215198
T3077-10	15kVA Bi-Phase 415/110V Signalling Power Transformer	0054/215199
T2910-10	20kVA Bi-Phase 415/110V Signalling Power Transformer	0054/215200
T3078-10	25kVA Bi-Phase 415/110V Signalling Power Transformer	0054/215201
T2911-10	30kVA Bi-Phase 415/110V Signalling Power Transformer	0054/215202
T3079-10	35kVA Bi-Phase 415/110V Signalling Power Transformer	0054/215203
T2912-10	40kVA Bi-Phase 415/110V Signalling Power Transformer	0054/215204
T3103-10	50kVA Bi-Phase 415/110V Signalling Power Transformer	0054/215205
T2913-10	60kVA Bi-Phase 415/110V Signalling Power Transformer	0054/215206
T3320-10	80kVA Bi-Phase 415/110V Signalling Power Transformer	0054/215207

Certificate of Acceptance

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PA05/07022

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Issue : 6
Valid From : 30/05/2025

System or Complete Assembly Three-Phase

Part No.	Description	Catalogue No.
400/650V Delta/Star Transformers		
T2914	10kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215074
T2961	20kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215075
T3116	25kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215076
T2915	30kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215077
T3334	35kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215078
T2962	40kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215079
T3058	50kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215080
T2963	60kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215081
T3027	80kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215082
T3801	90kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215208
T3758	100kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215108
T3802	110kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215209
T3143	120kVA 3Phase 400/650V Delta/Star Power Transformer	0054/215083
400/650V Delta/Delta Transformers		
T3699	10kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215084
T3700	20kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215085
T3701	25kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215086
T3702	30kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215087
T3719	35kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215088
T3703	40kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215089
T3704	50kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215090
T3705	60kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215091
T3706	80kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215092
T3803	90kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215210
T3722	100kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215109
T3804	110kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215211
T3707	120kVA 3Phase 400/650V Delta/Delta Power Transformer	0054/215093
400/650V Star/Delta Transformers		
T3709	10kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215094
T3710	20kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215095
T3711	25kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215096
T3712	30kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215097
T3720	35kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215098
T3713	40kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215099
T3714	50kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215100
T3715	60kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215101
T3716	80kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215102
T3805	90kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215212
T3650	100kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215110
T3806	110kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215213
T3717	120kVA 3Phase 400/650V Star/Delta Power Transformer	0054/215103
400/400V Delta/Star Transformers		
T3821	10kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215214
T3822	20kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215215
T3823	25kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215216
T3824	30kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215217
T3825	35kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215218

Certificate of Acceptance

OFFICIAL
PA05/07022

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Issue : 6
Valid From : 30/05/2025

Part No.	Description	Catalogue No.
T3826	40kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215219
T3827	50kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215220
T3828	60kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215221
T3829	80kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215222
T3830	90kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215223
T3831	100kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215224
T3832	110kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215225
T3833	120kVA 3Phase 400/400V Delta/Star Power Transformer	0054/215226
400/400V Delta/Delta Transformers		
T3834	10kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215227
T3835	20kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215228
T3836	25kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215229
T3837	30kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215230
T3838	35kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215231
T3839	40kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215232
T3840	50kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215233
T3841	60kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215234
T3842	80kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215235
T3843	90kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215236
T3844	100kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215237
T3845	110kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215238
T3846	120kVA 3Phase 400/400V Delta/Delta Power Transformer	0054/215239
400/400V Star/Delta Transformers		
T3847	10kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215240
T3848	20kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215241
T3849	25kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215242
T3850	30kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215243
T3851	35kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215244
T3852	40kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215245
T3853	50kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215246
T3854	60kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215247
T3855	80kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215248
T3856	90kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215249
T3857	100kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215250
T3858	110kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215251
T3859	120kVA 3Phase 400/400V Star/Delta Power Transformer	0054/215252
650/650V Delta/Star Transformers		
T3860	10kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215253
T3861	20kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215254
T3862	25kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215255
T3863	30kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215256
T3864	35kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215257
T3865	40kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215258
T3866	50kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215259
T3867	60kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215260
T3868	80kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215261
T3869	90kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215262
T3870	100kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215263
T3871	110kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215264
T3873	120kVA 3Phase 650/650V Delta/Star Power Transformer	0054/215265
650/650V Delta/Delta Transformers		

Certificate of Acceptance

OFFICIAL
PA05/07022

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Issue : 6
Valid From : 30/05/2025

Part No.	Description	Catalogue No.
T3874	10kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215266
T3875	20kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215267
T3876	25kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215268
T3877	30kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215269
T3878	35kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215270
T3879	40kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215271
T3880	50kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215272
T3881	60kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215273
T3882	80kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215274
T3883	90kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215275
T3884	100kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215276
T3885	110kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215277
T3886	120kVA 3Phase 650/650V Delta/Delta Power Transformer	0054/215278
650/650V Star/Delta Transformers		
T3887	10kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215279
T3888	20kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215280
T3889	25kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215281
T3890	30kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215282
T3891	35kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215283
T3892	40kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215284
T3893	50kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215285
T3894	60kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215286
T3895	80kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215287
T3896	90kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215288
T3897	100kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215289
T3898	110kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215290
T3899	120kVA 3Phase 650/650V Star/Delta Power Transformer	0054/215291

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
D1532-5-PSP-ASP-Datasheet	Drawing No D1532	5	02/12/16	T1
PA05/07022	Product Acceptance Review Guidance Document	---	10/08/2018	T1
---	Transformers used in other Rail Projects	---	---	T1
T3143	Transformer Type Test Certificate	1	02/08/2017	T1
T3143	Technical Data Sheet	---	16/08/2018	T1
---	Product Copyright Notice	---	2018	T1
FS 571915	Certificate of Registration, Quality Management System – ISO9001:2005	---	15/06/2017	T1
---	Declaration of Conformity	---	16/08/2018	T1
---	COSHH Assessment	---	28/10/2016	T1
TECH140	ATL Test Report: 120KVA Aluminium Wound Class I PSP Isolation Transformer for Network Rail	0	16/08/18	T1

Certificate of Acceptance

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PA05/07022

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Issue : 6
Valid From : 30/05/2025

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
---	Email correspondence Brian Baker/Jason Maggs	---	August 2018	T1
---	Email correspondence Brian Baker/Naomi Campbell	---	January 2020	T2
---	Email correspondence Brian Baker/Nick Chandler	---	Jan 2020	T2
---	Telephone conversation Brian Baker/Nick Chandler	---	07/02/2020	T2
---	Email correspondence Brian Baker/Nick Chandler	---	2020-21	3
---	Electrification & Power Generic Acceptance Requirements v2.4	---	---	4
---	List of Principal Supply Point transformers for certificate	---	---	4
---	Locations in service	---	---	4
---	Compliance commentary PA05-07022	---	---	4
TECH140	ATL Test Report: T3143_120KVA Aluminium Wound Class I PSP Transformer for Network Rail	2	11/08/2022	4
T3346	3 Phase Transformer Type Test Certificate	1	17/08/2020	4
---	CoSHH Assessment	---	28/10/2016	4
---	Declaration of conformity	---	15/08/2022	4
---	EC Declaration of conformity	---	16/08/2018	4
---	RISQS certificate	---	---	4
---	ISO9001 certificate	---	10/07/2020	4
TECH148	O&M Manual Class I PSP/ASP Transformer 3ph 400/650V Lightweight Aluminium Range	2	2022	4
TECH149	O&M Manual Class I PSP/ASP Transformer 1ph Lightweight Aluminium Range	3	2022	4
T3143	Technical Data Sheet	---	16/08/2018	4
---	8.5.1 Manufacturing process flow charts	---	---	4
---	8.1.7 RAM plan	---	---	4
---	8.3.1 Block diagram	---	---	4
---	8.3.2 Parameter diagram	---	---	4
---	8.3.3 Design FMEA	---	---	4
---	8.4.2 Installation FMEA	---	---	4
---	PA05-07022 PA-DfR cover sheet	---	---	4
---	Product Copyright Notice	---	---	4
---	Email correspondence July 2022-October 2022	---	---	4
---	Email correspondence February 2025-May 2025	---	---	6
TECH151 Issue 17	TECH151 - Overall Rail Brochure (Iss17) (Print)	17	15/01/2025	6

Certificate of Acceptance

OFFICIAL
PA05/07022

Manufacturer:
ATL Transformers Ltd

Issue : 6
Valid From : 30/05/2025

Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
TECH148	O&M Manual Class I PSP/ASP Transformer 3ph 400/650V Lightweight Aluminium Range	2	2022	4
TECH149	O&M Manual Class I PSP/ASP Transformer 1ph Lightweight Aluminium Range	3	2022	4
TECH148	O&M Manual Class I PSP/ASP Transformer 3ph Lightweight Aluminium Range	5	2024	6

Certificate History

Issue	Date	Issue History
T1	07/09/2018	Initial issue for trial purposes.
T2	12/02/2020	Extension to trial to allow for trial criteria to be met.
3	30/04/2021	Site Specific acceptance.
4	03/02/2023	Re-issued with full acceptance and updated rating selection for single and three phase units.
5	13/09/2023	Re-issued to include 100kVA rated transformers.
6	30/05/2025	Additional fully accepted products added.

Contact Details

Manufacturer

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Applicant

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Certificate of Acceptance

OFFICIAL
PA05/07022

Manufacturer:
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Valid From : 30/05/2025

General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the relevant Network Technical Head or nominated delegate. Any alterations made by a other persons will invalidate the entire certificate.
- 2) Failure to abide by the requirements in this Certificate of Acceptance may invalidate the certificate, thereby restricting the right to operate the product and / or limiting the future supply and deployment of the product on the infrastructure.
- 3) If this is a Trial Certificate which includes a Trial Monitoring Period or Trial Expiry date, evidence should be submitted to meet the included trial criteria before the date has passed for the Lead Reviewing Engineer to assess if the product can be given Full Acceptance. If this cannot be achieved, the Product Acceptance team should be contacted via prodacc@networkrail.co.uk to seek guidance. If this is a Full Certificate and includes a review date, the Product Acceptance team should be contacted via prodacc@networkrail.co.uk to seek guidance.

2) Manufacturer

The Manufacturer shall:

- 1) Ensure that all products supplied comply with the standards defined in the Acceptance Requirements or otherwise documented as part of the assessment, including meeting the reliability requirements included in the Network Rail Design for Reliability Standard (DFR) NR-L2-RSE-0005 and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Product Acceptance in writing (email prodacc@networkrail.co.uk):
 - a. Within 48 hours, of any deficiencies affecting the quality, functionality or safety integrity of the product (including corrective action undertaken or proposed).
 - b. Of any intended change to the accepted product; changes include:
 - i. a change to the product configuration (to the actual product or its application);
 - ii. a variation to or addition of manufacturing locations or processes;
 - iii. a change in the name or ownership of the manufacturing company;
 - iv. any changes to the ability or intention to support with technical services, spares or repairs.
- 3) The Manufacturer shall provide Network Rail Product Acceptance or National Supply Chain (NSC) at least 12 (twelve) months notice of its intention to discontinue supply or to provide such notice as is reasonable if such discontinuance is outside its control and will offer the opportunity of a Last Time Buy to Network Rail together with date for last order placement and supply of the parts affected. The introduction of proposed alternative products shall be communicated to Network Rail Product Acceptance.
- 4) Provide further copies of operating and maintenance manuals to purchasers / users of the product as necessary (including certificates of conformance, calibration etc).
- 5) Provide further copies of training manuals and an appropriate level of training to purchasers or users of the product as necessary.
- 6) Where applicable, specialist technical support, repairs and servicing of the product shall be carried out by the Original Equipment Manufacturer (OEM) or authorised agent only.
- 7) Network Rail may request information from the manufacturer to prove product compliance with clauses 1 and 2 above and reserve the right to suspend and/or withdraw any application where information is not forthcoming within a reasonable timeframe.
- 8) In accordance with Network Rail's Quality Assurance Policy Statement, where the specification and/or Product Acceptance Certificates specify quality assurance classifications for the products, the manufacturer shall comply with the specified level of quality assurance for each product and allow Network Rail access to carry out its quality assurance checks.
- 9) The manufacturer shall give Network Rail's representatives access at all reasonable times to its premises and allow them to inspect its quality systems and production methods and, if requested, to inspect, examine and test the products both during and after their manufacture and the materials being used in their manufacture.

3) Conditions of Use

Specifiers, installers, operators, maintainers, etc. using the product shall:

- 1) Comply with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Product Acceptance.
- 2) Check that the application of use complies with the relevant certificate's scope of acceptance.
- 3) Report any defect if it is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway in writing to Network Rail Product Acceptance.
- 4) Inform Network Rail Product Acceptance in writing of a change to the product configuration (or to the actual product or its application).
- 5) Operate, maintain and service the product in accordance with Network Rail standards and Operation and Maintenance manuals as appropriate.
- 6) Be appropriately trained and authorised for the installation, maintenance and use of the product.
- 7) Only send products for repair or reconditioning to the Original Equipment Manufacturer (OEM) or authorised agent.
- 8) Users are to be aware that Product Acceptance is not a substitute for design approval.

Certificate of Acceptance

OFFICIAL
PA05/07022

Manufacturer:
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Issue : 6
Valid From : 30/05/2025

4) Compliance

Railways and Other Guided Systems (ROGS) Regulations

- 1) Where the product is to be used in areas where Network Rail is not the Infrastructure Manager (e.g. leased stations), the sponsoring applicant shall additionally obtain formal consent from the Infrastructure Manager for the locality where the equipment is to be installed. This may include a requirement for additional safety verification. The decision of that Infrastructure Manager is binding, and cannot be overridden by Network Rail except by the escalation processes established in the ROGS regulations
- 2) As required in Railway Group Standard RIS-8270-RST, at each use of this product the project or group responsible for installation and commissioning shall be required to demonstrate compatibility with:
 - a. All rail vehicle types that have access rights over the area affected by the change
 - b. Infrastructure managed by others
 - c. Neighbours.

Railway Interoperability Regulations

- 3) For interoperable constituents of systems the project or group responsible for installation and commissioning shall be required to demonstrate compliance with the relevant Technical Specifications for Interoperability (TSI) where appropriate.
- 4) An authorisation from the national safety authority (i.e. the Railway Safety Directorate of the Office of Rail and Road) is required before the equipment is to be used in revenue earning service.

5) Supply Chain Arrangements

- 1) Certificates of acceptance do not imply any particular quantity of supply nor any exclusivity of supply.
- 2) Products may be purchased by Network Rail or its agents, suppliers or contractors.
- 3) Manufacturers should note that it is not necessary to enter into any exclusive supply arrangements with resellers or other suppliers.