

Manufacturer:
Rail Signalling and Power Ltd

Issue : 1
Valid From : 30/11/2018
Review Date: 30/11/2023

Class I FSP Switchgear Assembly

Product Description

Class I FSP Switchgear Assemblies suitable for FSP01 and FSP02 configurations in accordance with NR/L2/ELP/27409.

Product Image



Scope of Acceptance: Full Acceptance

The Class I "MagBox" product range is suitable for use as a FSP Switchgear Assembly in accordance with NR/L2/ELP/27409.

The following application criteria and constraints shall be applied:

1. Use limited to a single end fed radial or manual reconfiguration, dual/single end fed system.
2. Only for use as categories FSP01 and FSP02 in accordance with NR/L2/ELP/27409.
3. Not to be utilised in Class II based Signalling Power Distribution Systems in accordance with NR/L2/ELP/27410
4. Only for use with 3 core or armoured cable in accordance with NR/L2/ELP/27409 and BS5467 cable.
5. Functional circuit protection feeding transformers shall be in accordance with approved transformer manufacturer recommendations. The use of MCB's or MCCB's over current protective derives in the switchgear assembly will require a product change request in accordance with Application For Configuration Change Or Update.
6. Not to be used in subsurface environments in accordance with section 12 stations and locations.
7. The Class I "MagBox" shall not be installed in signalling distribution feeders, where the PSP outgoing or source feeder protection exceeds a BS 88 80A or equivalent protective device. The energy let through shall not exceed 1.5kA for 1 second at the FSP.
8. Where Overvoltage protection is specified or fitted it shall be a Product Approved Overvoltage protection device.

Class I "MagBox" enclosure properties enable installation for coastal/marine applications.

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:


Tom Riley
Product Acceptance Co-ordinator


Kyle Windsor
Acting Professional Head of Power Distribution HV/LV

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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 contained within this certificate.

User

- 1) As per the scope of acceptance contained within this certificate.

Product Configuration

System or Complete Assembly

Part No.	Description	Catalogue No.
21 SS 02	Class I distribution unit rated to 690V fitted with Ring Power IN and OUT Isolators. Three switched & fused output functional supplies. Suitable for marine areas.	0092/000296
20 SS 02	Class I distribution unit rated to 690V fitted with Ring Power IN and OUT Isolators. Three switched & fused output functional supplies. One switched & fused internal supply to Surge Arrestor. Suitable for marine areas.	0092/000297

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
PA05/06039	Assessed documentation PA folders for PA05/06039 - FSP Class 1	-	20/11/18	1
	To Whom It May Concern.PDF	-	20/11/18	1
	6126RISQSCertificate	-	20/11/18	1
	Class I SS-1 Section 1-3	-	20/11/18	1
	Class I SS-3 Section 4	-	20/11/18	1
	Class I1 SS-3 Section 5-10			
	Supporting Documentation Folder			
	Network Rail SQA Audit 20181030-A-1507-RSP	-	20/11/18	1

Certificate of Acceptance

PA05/07055

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Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
	O&M MagBox Class I FSP Switchgear Assembly	4	14-10-2013	1

Certificate History

MGB Ltd History on PA05/06039

Issue	Date	Issue History
1	05/11/2013	First accepted for use.

Rail Signalling Power Ltd History

Issue	Date	Issue History
1	30/11/2018	Accepted for use for Rail Signalling Power Ltd following liquidation of MGB Ltd (PA05/06039).

Contact Details

Manufacturer

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Sponsor

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Technology Introduction Group. Any alterations made by a different person 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) Upon the review date this certificate and the product it relates to is invalid and not accepted for use. Manufacturers are to make an application for a review prior to the review date.

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 Acceptance Requirements and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Technology Introduction Group:
 - 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 Technology Introduction Group 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 the Network Rail Technology Introduction Group.
- 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 2011, where the specification and/or Product Acceptance Certificates specify quality assurance classifications (QA1 to QA5) 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 Technology Introduction Group.
- 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 Technology Introduction Group.
- 4) Inform Network Rail Technology Introduction Group 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.

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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 sponsor 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 GE/RT8270, 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 Regulation) 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.