

**Manufacturer:**  
UniPart Rail

**Issue :** 2  
**Valid From :** 27-03-2019  
**Review Date :** 27-03-2024

## CLASS II FSP SWITCHGEAR ASSEMBLIES

### Product Description

**CLASS II FSP SWITCHGEAR ASSEMBLIES, TERMINAL BOXES, AND EARTH CONTINUITY BOXES**

#### FSP APPARATUS HOUSING

FSP Switchgear Assemblies in accordance with NR/L2/ELP/27409 issue 2.

Integrated Assembly in accordance with NR/L2/ELP/27409 issue 2, comprising of FSP 03 Switchgear, Auxiliary Services, Apparatus Housing and space provisioned for but not supplied with Signalling Transformers and Signalling Rectifying Transformers or Batteries and Battery Chargers.

### Product Image



### Scope of Acceptance

#### Full Acceptance

The Class II FSP 01/02, FSP 03 and FSP 04 product ranges are suitable for use as Class II FSP Switchgear Assemblies in accordance with NR/L2/ELP/27409.

FSP Apparatus Housing, namely ; *FSP Enclosure - Full Location Case* detailed in this certificate shall be limited to use to house E&P equipment as detailed in the scope of NR/L2/ELP/27409.

Additional variants may be permitted as authorised by the Professional Head or delegate in writing.

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 Coordinator



Felix Langley  
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) The Class II FSP Switchgear Assembly production units shall be tested in accordance with the UniPart Rail FSP Test Method Statement and accompanied by a UniPart Rail FSP Test Certificate.
- 2) Each FSP SG shall be tested in accordance with section 4.5.2 of NR/L2/ELP/27409 (Class II dielectric test). Test records including photos shall be maintained for traceability of Class II dielectric test.
- 3) Each FSP shall be tested at the factory prior to release in accordance with the test regime and SOP evidence supplied by the manufacturer in support of this Product Acceptance and Certification.
- 4) All gland plates are to be supplied pre-drilled.

#### User

- 1) A Class II installation is satisfied if the FSP Switchgear Assembly is installed in conjunction with other Class II system components in accordance with NR/L2/ELP/27410.
- 2) FSP03 use limited to radial, dual end fed radial for manual reconfiguration dual end fed system and auto-reconfigurable dual end fed systems.
- 3) FSP Switchgear Assemblies for use with 2 core cable in accordance with NR/L2/ELP/27408 or unarmoured 2 core B2/D2 EPR cable to NR/PS/SIG/00005 or other legacy 2 core unarmoured cable with maximum cable CSA of 120sqmm Cu or Al (Al cable can only be used when fitted with Product Approved bi-metallic connectors).
- 4) Terminal Boxes and Earth Continuity Boxes for use with cable in accordance with NR/L2/ELP/27408 or B2/D2 EPR cable to NR/PS/SIG/00005 or other legacy cable within maximums declared with individual product entry, and an overall maximum of 185sqmm Cu or Al (Al cable can only be used when fitted with Product Approved bi-metallic connectors).
- 5) Functional circuit protection feeding transformers shall be in accordance with approved transformer manufacturer recommendations.
- 6) Where these Class II FSP Switchgear Assemblies, Terminal Boxes and Earth Continuity Boxes are used in Class I installations the continuity of the protective conductors or bonding must be maintained. *Note: The use of Class II Switchgear Assemblies alone in Class I installations does not provide full protective measures as detailed in NR/L2/ELP/27410.*
- 7) Transformer Sizes - 4 x Transformers, the maximum space available for each transformer is 340mm Wide x 295mm High x 195mm Deep. For 2 transformers the depth is up to 390mm deep, 340mm Wide x 295mm High. For one transformer the maximum available space is 340mm Wide x 590mm High x 390mm Deep (with the removal of the centre transformer support bars).
- 8) 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.
- 9) Where Overvoltage protection is specified or fitted it shall be a Product Approved 2 Wire Overvoltage protection device in accordance with NR/L2/ELP/27410.
- 10) Maximum Rating of the FSP and FSP Switchgear Assemblies is 63A, with a maximum of 32A for each fused circuit.
- 11) The maximum load across all circuits is 7kVA.
- 12) The Class II FSP Switchgear Assemblies are only for use in a system with suitable upstream protection with a maximum fault level of 6kA and a disconnect time of 115ms or less.
- 13) Class II FSP Switchgear Assemblies shall not be drilled on site. Brass glands shall only be used with fully insulated adaptor, with a dielectric strength exceeding 3.5kV, in accordance with NR/L2/ELP/27410.

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- 14) Where Class II FSP Switchgear Assemblies, Terminal Boxes or Earth Continuity Boxes are damaged externally and requires repair in accordance with the O&M manual, this shall only be undertaken by the original manufacturer.
- 15) Class II FSP Switchgear Assemblies may be supplied in an 'FSP Enclosure' (location case), with construction properties suitable for installation in marine/aggressive applications.
- 16) Auxiliary Circuits (domestic Light and Heater) in these FSP Enclosures are to be fed via a Full Class II Isolating Transformer which requires no functional earth. In the event of replacement, only a Fully Class II Isolating Transformer should be used.
- 17) MET conductor is to be provided within the weatherproof enclosure. The main PE conductor must be connected to a local earth. All exposed conductive parts and functional earths shall be connected to the MET. Where Fully Class II Transformer with Class II Auxiliary equipment (Light and Heater) is installed, no PE connection is necessary.
- 18) Not to be used in subsurface environments in accordance with section 12 stations and locations.
- 19) Maximum Spur current rating is 32 amps.
- 20) All gland plates are to be ordered pre-drilled from Manufacturer.

## Product Configuration

### Complete FSP 03 contained within a Mild Steel Apparatus Housing

PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000604	PIC114-1004	6	2	1	6	0050/604956
	<p><b>PowerU-2FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• Mild Steel Ventilated Apparatus Case with Document Door Pockets.</li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					

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0086/000605	PIC114-1008	6	2	2	8	0050/604966
	<p><b>PowerU-2FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• Mild Steel Ventilated Apparatus Case with Document Door Pockets.</li> <li>• Fitted with Surge Protection Device.</li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• 1 x Switched and Fused Network Rail approved Surge Protection Device.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					
PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000606	PIC114-1001	6	4	1	10	0050/604959
	<p><b>PowerU-4FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• Mild Steel Ventilated Apparatus Case with Document Door Pockets.</li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					

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PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000607	PIC114-1009	6	4	2	12	0050/604968
	<p><b>PowerU-4FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• Mild Steel Ventilated Apparatus Case with Document Door Pockets.</li> <li>• Fitted with Surge Protection Device.</li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• 1 x Switched and Fused Network Rail approved Surge Protection Device.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					
PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000608	PIC114-1002	6	6	1	14	0050/604954
	<p><b>PowerU-6FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• Mild Steel Ventilated Apparatus Case with Document Door Pockets.</li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					

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PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000609	PIC114-1010	6	6	2	16	0050/604970
	<p><b>PowerU-6FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• Mild Steel Ventilated Apparatus Case with Document Door Pockets.</li> <li>• Fitted with Surge Protection Device.</li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• 1 x Switched and Fused Network Rail approved Surge Protection Device.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					
PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000614	PIC114-1011	6	8	1	18	0050/604972
	<p><b>PowerU-8FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• Mild Steel Ventilated Apparatus Case with Document Door Pockets.</li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					

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	PIC114-1003	6	8	2	20	0050/604958
0086/000616	<p><b>PowerU-8FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• Mild Steel Ventilated Apparatus Case with Document Door Pockets.</li> <li>• Fitted with Surge Protection Device.</li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• 1 x Switched and Fused Network Rail approved Surge Protection Device.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					

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**FSP 03 contained within a Stainless Steel Apparatus Housing**

PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
	PIC114-1004	6	2	1	6	0050/604952
0086/000618	<p><b>PowerU-2FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>Stainless Steel Ventilated Apparatus Case with Document Door Pockets.</li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>Main Incoming and Main Outgoing Supply Isolators,</li> <li>Incoming Bypass and Outgoing Bypass Isolators,</li> <li>1 x ARS Isolator,</li> <li>1 x Main Functional Supply Isolator.</li> <li>2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>All Functional Supply Fuse Carriers are IEC 60269.</li> <li>Mounting arrangements for Communications enclosure provided.</li> <li>ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>Camlin or Schneider Auto Reconfiguration System.</li> <li>Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					



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0086/000624	PIC114-1008	6	2	2	8	0050/604967
	<p><b>PowerU-2FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• <b>Stainless Steel Ventilated Apparatus Case with Document Door Pockets.</b></li> <li>• <b>Fitted with Surge Protection Device.</b></li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• 1 x Switched and Fused Network Rail approved Surge Protection Device.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					
PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000626	PIC114-1001	6	4	1	10	0050/604953
	<p><b>PowerU-4FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• <b>Stainless Steel Ventilated Apparatus Case with Document Door Pockets.</b></li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					

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PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000628	PIC114-1009	6	4	2	12	0050/604969
	<p><b>PowerU-4FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• <b>Stainless Steel Ventilated Apparatus Case with Document Door Pockets.</b></li> <li>• <b>Fitted with Surge Protection Device.</b></li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• 1 x Switched and Fused Network Rail approved Surge Protection Device.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					
PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000629	PIC114-1002	6	6	1	14	0050/604955
	<p><b>PowerU-6FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• <b>Stainless Steel Ventilated Apparatus Case with Document Door Pockets.</b></li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					

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PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000632	PIC114-1010	6	6	2	16	0050/604971
	<p><b>PowerU-6FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• <b>Stainless Steel Ventilated Apparatus Case with Document Door Pockets.</b></li> <li>• <b>Fitted with Surge Protection Device.</b></li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• 1 x Switched and Fused Network Rail approved Surge Protection Device.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					
PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000633	PIC114-1011	6	8	1	18	0054/604973
	<p><b>PowerU-8FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• <b>Stainless Steel Ventilated Apparatus Case with Document Door Pockets.</b></li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					

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PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000634	PIC114-1003	6	8	2	20	0050/604957
	<p><b>PowerU-6FSP/03 Class II FSP 03 Switchgear Assembly with:</b></p> <ul style="list-style-type: none"> <li>• <b>Stainless Steel Ventilated Apparatus Case with Document Door Pockets.</b></li> <li>• <b>Fitted with Surge Protection Device.</b></li> </ul> <p><b>Class II FSP Switchgear Assembly rated at 690V fitted with:</b></p> <ul style="list-style-type: none"> <li>• Incoming/Outgoing Mains Supply Termination Boxes suitable for up to 2 Core Enhanced Unarmoured Cu or Al 120mm<sup>2</sup> Cable.</li> <li>• Main Incoming and Main Outgoing Supply Isolators,</li> <li>• Incoming Bypass and Outgoing Bypass Isolators,</li> <li>• 1 x ARS Isolator,</li> <li>• 1 x Main Functional Supply Isolator.</li> <li>• 2 x Switched and Fused Functional Circuit outputs (Signalling). The total sum of the functional Circuits must not exceed 63Amps.</li> <li>• 1 x Switched and Fused Auxiliary Supply including 4 Way 110V AC Distribution Centre, 100VA 650/110 Transformer, 50W Heater and 11W Wand Light, BS88-2 Fuse Carriers.</li> <li>• 1 x Switched and Fused Network Rail approved Surge Protection Device.</li> <li>• All Functional Supply Fuse Carriers are IEC 60269.</li> <li>• Mounting arrangements for Communications enclosure provided.</li> <li>• ARS Cables and Termination Box is included.</li> </ul> <p><b>Space and mounting arrangements for but not supplied unless specifically ordered:</b></p> <ul style="list-style-type: none"> <li>• Camlin or Schneider Auto Reconfiguration System.</li> <li>• Mounting arrangements provided for up to x4 Signalling Transformers and/or Transformer Rectifiers. Signalling Transformers or Signalling Rectifying Transformers.</li> </ul>					

### FSP 01/02 Switchgear Assemblies

PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number
0086/001552	PIC129-1001	PIC129-4001	2	4	8	0050/606514
	<p><b>FSP01/02 - Switch Box 1</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• Two main Incoming/outgoing and Four fused Functional Supply Isolator.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is IEC and exact fuse rating will be based on loads.</li> <li>• Each Functional Circuit has a maximum rating of 32A and total of currents passed shall not exceed 63A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made of fiberglass reinforced polyester</li> <li>• IP44 and IK09, 400x400mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>					

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PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	SPD	UR Part Number
0086/001553	PIC129-1002	PIC129-4002	2	3	8	1	0050/606515
	<p><b>FSP01/02 - Switch box 2</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• One main Incoming, Three fused Functional Supply Isolator and one fused Surge Protection Circuit.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is IEC and exact fuse rating will be based on loads.</li> <li>• Each Functional Circuit has a maximum rating of 32A and total of currents passed shall not exceed 63A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made of fiberglass reinforced polyester</li> <li>• IP44 and IK09, 400x400mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>						
PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number	
0086/001554	PIC129-1003	PIC129-4001	2	4	8	0050/606516	
	<p><b>FSP01/02 - Switch Box 3</b></p> <p>Class II Distribution unit rated at 240V fitted with:-</p> <ul style="list-style-type: none"> <li>• Two main Incoming/outgoing and Four Functional Supply Isolator.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is IEC and exact fuse rating will be based on loads.</li> <li>• Each Functional Circuit has a maximum rating of 32A and total of currents passed shall not exceed 63A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made of fiberglass reinforced polyester</li> <li>• IP44 and IK09, 400x400mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>						

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PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	SPD	UR Part Number
0086/001555	PIC129-1004	PIC129-4002	2	3	8	1	0050/606517
	<p><b>FSP01/02 - Switch box 4</b></p> <p>Class II Distribution unit rated at 240V fitted with:-</p> <ul style="list-style-type: none"> <li>• One main Incoming, Three fused Functional Supply Isolator and one fused Surge Protection Circuit.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is IEC and exact fuse rating will be based on loads.</li> <li>• Each Functional Circuit has a maximum rating of 32A and total of currents passed shall not exceed 63A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made of fiberglass reinforced polyester</li> <li>• IP44 and IK09, 400x400mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>						

**FSP 03 Switchgear Assemblies and Line Replaceable Units**

PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000635	PIC114-2001	6	0	0	0	URPC/000560
	<p><b>PowerU-Class II FSP/03 – MCAB1 - Main Incoming Supply Module</b></p> <p>Class II Distribution Module rated at 690V fitted with:- Main Incoming and Main Outgoing Supply Isolators, Incoming Bypass and Outgoing Bypass Isolators, 1 x ARS Isolator, 1 x Main Functional Supply Isolator.</p>					
PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000636	PIC114-2002	0	4	0	8	URPC/000561
	<p><b>PowerU-Class II FSP/03 – MCAB2 - 4 Functional TX Circuits Isolators and Primary Fuses Module</b></p> <p>Class II Functional Circuit Module rated at 690V fitted with:- 4 x Switched and Fused Functional Circuit outputs (Signalling). Fuse Carriers are IEC 60269.</p>					
PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000637	PIC114-2016	0	4	0	8	URPC/000807
	<p><b>PowerU-Class II FSP/03 – MCAB2A - 4 Functional Circuit Isolators and Fuses Module</b></p> <p>Class II Functional Circuit Module rated at 690V fitted with:- 4 x Switched and Fused outputs for other Functional Circuits. Fuse Carriers are IEC 60269.</p>					

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PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000638	PIC114-2032	0	2	0	4	URPC/000594
	<b>PowerU-Class II FSP/03 – MCAB2B - 2 Functional Circuit Isolators and Fuses Module (Only to be used with 6 Functional Supply FSP/03).</b> Class II Functional Supply Module rated at 690V fitted with:- 2 x Switched and Fused outputs for other Functional Circuits. Fuse Carriers are IEC 60269.					
0086/000639	PIC114-2003	0	2	0	4	URPC/000562
	<b>PowerU-Class II FSP/03 – MCAB3 - 2 Functional TX Circuit Isolators and Primary Fuses Module</b> Class II Functional Circuit Module rated at 690V fitted with:- 2 x Switched and Fused Functional Circuit outputs (Signalling). Fuse Carriers are IEC 60269.					
0086/000640	PIC114-2004	0	0	0	0	URPC/000869
	<b>PowerU-Class II FSP/03 – MCAB4 – 110V Secondary Transformer Fuse Holders Module</b> Class II Secondary Transformer Fuse Holder Module rated at 110V fitted with:- 8 x BS88-2 32A Camaster Fuse Carriers.					
0086/000642	PIC114-2014	0	0	0	0	URPC/000988
	<b>PowerU-Class II FSP/03 – MCAB5 – 110V Secondary Transformer Fuse Holders Module</b> Class II Secondary Transformer Fuse Holder Module rated at 110V fitted with:- 4 x BS88-2 32A Camaster Fuse Carriers.					
0086/000643	PIC114-2009	0	0	0	0	URPC/000788
	<b>PowerU-Class II FSP/03 – MCAB6A – Four Functional Circuit Primary Terminals Module</b> Class II Terminal Box Module rated at 690V fitted with:- 8 x M6 Terminals.					
0086/000644	PIC114-2033	0	0	0	0	URPC/001005
	<b>PowerU-Class II FSP/03 – MCAB6B – Two Functional Circuit Primary Terminals Module</b> Class II Terminal Box Module rated at 690V fitted with:- 4 x M6 Terminals.					
0086/000645	PIC114-2017	0	0	0	0	URPC/000566
	<b>PowerU-Class II FSP/03 – MCAB6C – Two Functional Circuit Outgoing Terminal Module (Only to be used with 6 Functional Supply FSP/03).</b> Class II Terminal Box Module rated at 690V fitted with:- 4 x M6 Terminals.					

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PADS No	GA Drawing Reference	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	UR Part Number
0086/000646	PIC114-2007	0	0	1	2	URPC/000565
	<b>PowerU-Class II FSP/03 – MCAB7 – Auxiliary Supply Isolator &amp; Fuse Module</b> Class II Auxiliary Supply Module rated at 690V fitted with:- 1 x Switched and Fused Auxiliary Supply. Fuse Carriers are IEC 60269.					
0086/000647	PIC114-2008	0	0	0	0	URPC/000569
	<b>PowerU-Class II FSP/03 – MCAB8 – Main Incoming Supply Terminal Module</b> Class II Main Incoming Supply Terminal Box Module rated at 690V fitted with:- 2 x M10 Terminals suitable for 2 Core Enhanced Unarmoured Cu or Al 120mm <sup>2</sup> Cable. Removable Gland Plate Pre-Machined with 63mm Cable entry. Gland not supplied.					
0086/000648	PIC114-2018	0	0	0	0	URPC/000808
	<b>PowerU-Class II FSP/03 – MCAB8A – Main Outgoing Supply Terminal Module</b> Class II Main Outgoing Supply Terminal Box Module rated at 690V fitted with:- 2 x M10 Terminals suitable for 2 Core Enhanced Unarmoured Cu or Al 120mm <sup>2</sup> Cable. Removable Gland Plate Pre-Machined with 63mm Cable entry. Gland not supplied.					
0086/000649	PIC114-2010	0	0	0	0	URPC/000786
	<b>PowerU-Class II FSP/03 – MCAB10 – Four Functional Circuit Outgoing Terminal Module</b> Class II Terminal Box Module rated at 690V fitted with:- 8 x M6 Terminals.					
0086/000671	PIC114-2011	0	0	1	2	URPC/000563
	<b>PowerU-Class II FSP/03 – MCAB11 – Surge Arrestor Module</b> Class II Surge Arrestor Module rated at 690V fitted with:- 1 x Switched and Fused Network Rail approved Surge Protection Device. Fuse Carriers are IEC 60269.					
0086/000672	PIC114-2076	0	0	0	0	URPC/000567
	<b>PowerU-Class II FSP/03 – MCAB14 – 110V Auxiliary Distribution Board Terminal Module</b> Class II 4 Way AC Distribution Centre Module rated at 110V fitted with:- 8 x Fused outputs (4 x Spare). Fuse Carriers are IEC 60269.					



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**FSP 04 (Legacy) Switchgear Assemblies**

PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number
0086/001556	PIC122-1016	PIC122-4011	1	1	2	0050/605930
	<p><b>FSP04 - Switch box 1</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• One main Incoming and one Functional Supply Isolator.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is BS88 and exact fuse rating will be based on loads.</li> <li>• Functional Circuit has a maximum rating of 32A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made from Polycarbonate</li> <li>• IP66 and IK09, 200x200mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 50mm<sup>2</sup> Cable.</li> </ul>					
PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number
0086/001557	PIC122-1017	PIC122-4011	1	1	2	0050/605929
	<p><b>FSP04 - Switch box 2</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• One main Incoming and one Functional Supply Isolator.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is IEC and exact fuse rating will be based on loads.</li> <li>• Functional Circuit has a maximum rating of 32A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made from Polycarbonate</li> <li>• IP66 and IK09, 200x200mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 50mm<sup>2</sup> Cable.</li> </ul>					

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PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number
0086/001558	PIC122-1023	PIC122-4011	1	1	2	0050/605504
	<p><b>FSP04 - Switch box 3</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• One main Incoming and one Functional Supply Isolator.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is BS88 and exact fuse rating will be based on loads.</li> <li>• Functional Circuit has a maximum rating of 32A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made from Polycarbonate</li> <li>• IP66 and IK09, 300x200mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>					
PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number
0086/001559	PIC122-1024	PIC122-4011	1	1	2	0050/605505
	<p><b>FSP04 - Switch box 4</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• One main Incoming and one Functional Supply Isolator.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is IEC and exact fuse rating will be based on loads.</li> <li>• Functional Circuit has a maximum rating of 32A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made from Polycarbonate</li> <li>• IP66 and IK09, 300x200mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>					

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PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number
0086/001560	PIC122-1018	PIC122-4012	1	2	4	0050/605932
	<p><b>FSP04 - Switch box 5</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• One main Incoming and two Functional Supply Isolator.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is BS88 and exact fuse rating will be based on loads.</li> <li>• Functional Circuit has a maximum rating of 32A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made from Polycarbonate</li> <li>• IP66 and IK09, 300x300mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>					
PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number
0086/001561	PIC122-1019	PIC122-4012	1	2	4	0050/605931
	<p><b>FSP04 - Switch box 6</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• One main Incoming and two Functional Supply Isolator.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is IEC and exact fuse rating will be based on loads.</li> <li>• Functional Circuit has a maximum rating of 32A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made from Polycarbonate</li> <li>• IP66 and IK09, 300x300mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>					

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PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number
0086/001562	PIC122-1025	PIC122-4013	2	1	2	0050/606101
	<p><b>FSP04 - Switch box 7</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• Two main Incoming/outgoing and one Transformer Supply Isolator.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is BS88 and exact fuse rating will be based on loads.</li> <li>• Functional Circuit has a maximum rating of 32A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made from Polycarbonate</li> <li>• IP66 and IK09, 300x200mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>					
PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number
0086/001563	PIC122-1026	PIC122-4013	2	1	2	0050/606102
	<p><b>FSP04 - Switch box 8</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• Two main Incoming/outgoing and one Transformer Supply Isolator.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is IEC and exact fuse rating will be based on loads.</li> <li>• Functional Circuit has a maximum rating of 32A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made from Polycarbonate</li> <li>• IP66 and IK09, 300x200mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>					

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PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number
0086/001564	PIC122-1021	PIC122-4014	2	1	4	0050/606502
	<p><b>FSP04 - Switch box 9</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• Two main Incoming/outgoing, one external transformer Functional Supply Isolator and one fused direct transformer to functional circuit link.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is BS88 and exact fuse rating will be based on loads.</li> <li>• Functional Circuit has a maximum rating of 32A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made from Polycarbonate</li> <li>• IP66 and IK09, 300x300mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>					
PADS No	GA Drawing Reference	Schematic Drawing Reference	Distribution Switches	Functional Switches	Fuses	UR Part Number
0086/001565	PIC122-1022	PIC122-4014	2	1	4	0050/606503
	<p><b>FSP04 - Switch box 10</b></p> <p>Class II Distribution unit rated at 690V fitted with:-</p> <ul style="list-style-type: none"> <li>• Two main Incoming/outgoing, one external transformer Functional Supply Isolator and one fused direct transformer to functional circuit link.</li> <li>• Switched functional (Signalling) Circuit output is fused.</li> <li>• Fuse type is IEC and exact fuse rating will be based on loads.</li> <li>• Functional Circuit has a maximum rating of 32A.</li> <li>• Mounting arrangements provided with angle brackets.</li> <li>• Class II Fully Assembled enclosure – made from Polycarbonate</li> <li>• IP66 and IK09, 300x300mm Case</li> <li>• Test points are un-fused.</li> <li>• Internal cables/Terminals are included, fuses are not included unless ordered.</li> <li>• Functional terminal cable size up to 16mm<sup>2</sup></li> <li>• Incoming/Outgoing Mains Supply Terminals suitable for up to 2 Core Enhanced Unarmoured Cu. or Al. 120mm<sup>2</sup> Cable.</li> </ul>					

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**Terminal and Earth Continuity Boxes**

PADS No	GA Drawing Reference	UR Part Number
0086/001566	PIC122-1027	0050/606506
	<b>Terminal Box 1 fitted with</b> Rated at 690V/63A Tunnel terminal that can take two or four cores Cable sizes up to 50mm <sup>2</sup> Enclosure size is 200x200mm and has internal partition protection cover. Mountable by angle brackets Class II Fully Assembled enclosure – made from Polycarbonate IP44 and IK09	
0086/001567	PIC122-1028	0050/606507
	<b>Terminal Box 2 fitted with</b> Rated at 690V/63A Stud terminal that can take two or four cores Cable sizes up to 50mm <sup>2</sup> Enclosure size is 200x200mm and has internal partition protection cover. Mountable by angle brackets Class II Fully Assembled enclosure – made from Polycarbonate IP44 and IK09	
0086/001568	PIC122-1029	0050/606508
	<b>Terminal Box 3 fitted with</b> Rated at 690V/63A Tunnel terminal that can take two or four cores Cable sizes up to 120mm <sup>2</sup> Enclosure size is 200x300mm and has internal partition protection cover. Mountable by angle brackets Class II Fully Assembled enclosure – made from Polycarbonate IP44 and IK09	
0086/001569	PIC122-1030	0050/606509
	<b>Terminal Box 4 fitted with</b> Rated at 690V/63A Stud terminal that can take two or four cores Cable sizes up to 120mm <sup>2</sup> Enclosure size is 200x300mm and has internal partition protection cover. Mountable by angle brackets Class II Fully Assembled enclosure – made from Polycarbonate IP44 and IK09	

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PADS No	GA Drawing Reference	UR Part Number
0086/001570	PIC122-1031	0050/606510
	<b>Terminal Box 5 fitted with:</b> Rated at 690V/63A Stud terminal that can take two cores only. Cable sizes up to 185mm <sup>2</sup> Enclosure size is 200x400mm and has internal partition protection cover. Mountable by angle brackets Class II Fully Assembled enclosure – made from Polycarbonate IP44 and IK09	
0086/001571	PIC122-1034	0050/606511
	<b>Terminal Box 6 with EARTH CONTINUITY fittings</b> Rated at 690V/63A Stud terminal that can take two or four cores Cable sizes up to 120mm <sup>2</sup> Enclosure size is 200x200mm and has internal partition protection cover. Mountable by angle brackets Class II Fully Assembled enclosure – made from Polycarbonate IP44 and IK09	
0086/001572	PIC122-1033	0050/606512
	<b>Terminal Box 7 with EARTH CONTINUITY fittings</b> Rated at 690V/63A Tunnel terminal that can take two 2- cores Cable sizes up to 120mm <sup>2</sup> Enclosure size is TWO 200x200mm and has internal partition protection cover. Mountable by angle brackets Class II Fully Assembled enclosure – made from Polycarbonate IP44 and IK09	
0086/001573	PIC122-1032	0050/606513
	<b>Terminal Box 8 fitted with</b> Rated at 690V/63A Stud terminal that can take two or four cores Cable sizes up to 185mm <sup>2</sup> Enclosure size is 300x400mm and has internal partition protection cover. Mountable by angle brackets Class II Fully Assembled enclosure – made from Polycarbonate IP44 and IK09	

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### FSP 03 Spares and Line Replaceable Units

PADS NO	UR Part No	Description
0086/000673	URPC/000593	Handle and Cover For OT80F3 Switch Disconnecter
0086/000674	URPC/000414	OT80F3 Switch Disconnecter
0086/000675	URPC/000422	Fuse Holder E91/32
0086/047165	RTM150/650	Surge Arrestor

### Mild Steel Apparatus Case Maintenance Spares and Line Replaceable Units

PADS NO	UR Part No	Description
0086/000676	URPC/001089	T1093-SP-Locking Bars
0086/000677	URPC/001090	T1093-SP-Locking- Door
0086/000678	URPC/001091	T1093-SP-Non –Locking-Door
0086/000679	URPC/001092	T1093-SP-Hinges
0086/000680	URPC/001093	T1093-SP-Roof
0086/000681	URPC/001094	T1093-SP-Door Stays
0086/000682	URPC/001095	T1093-SP-Door Handle
0086/000683	URPC/001096	T1093-SP-Lifting Bracket

### Stainless Steel Apparatus Case Maintenance Spares and Line Replaceable Units

PADS NO	UR Part No	Description
0086/000684	URPC/001101	T1125-SP-Locking Bars
0086/000685	URPC/001099	T1125-SP-Locking-Door
0086/000686	URPC/001100	T1125-SP-Non–Locking-Door
0086/000687	URPC/001109	T1125-SP-Hinges
0086/000688	URPC/001098	T1125-SP-Roof
0086/000689	URPC/001110	T1125-SP-Door Stays
0086/000690	URPC/001111	T1125-SP-Door Handle
0086/000691	URPC/001097	T1125-SP-Lifting Bracket

## Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
---	PA05/06332 Evidence zip file.	1		1
---	PA05/06332 Acceptance Requirements	1		1
PIC114-15	Acceptance Requirements Response	1		1
PIC114-02	Compliance Commentary to NR/L2/ELP/27409	B		1
PIC114-04	FSP Technical Documentation	B		1
PIC114-05	UniPart Rail Production Inspection/Check List for Functional Supply Equipment	B		1
PIC114-08	FSP Configuration Document	C		1
PIC114-09	FSP 03 Clause-by-Clause Responses to NR/L2/ELP/27410	B		1
PIC114-10	Component Datasheet Document	B		1
PIC114-11	Wind Calculations Test Report	B		1
PIC114-12	Environmental Report	B		1
PIC114-13	Low Voltage Test Report	B		1
PIC114-14	Earth Bond Calculations	A		1



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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
PIC114-15	FSP 03 Clause-by-Clause Responses to NR Acceptance Requirements PA05-06332	B		1
PIC114-16	FSP Reliability Report	A		1
PIC114-17	FSP 2C 120sqmm Unarmoured Cable – Bend Radius Report	B		1
PIC114-18	FSP 03 MCAB Enclosure & Label Report	B		1
PIC114-19	FSP 03 Declaration of Conformity	B		1
PIC114-20	FSP Internal Wiring Current Ratings	A		1
PIC114-21	FSP Switchgear Assembly Water Ingress Protection IP4X Test Report	A		1
PIC114-23	FSP 03 Test Point – IP21 Test Report	A		1
PIC114-1003	GA Drawing – 8 Functional Supply with Surge	D		1
PIC114-1010	GA Drawing - 6 Functional Supply Surge	A		1
PIC114-1012	GA Drawing - 2 Functional Supply Surge & Spur	A		1
PIC114-1013	GA Drawing - 4 Functional Supply Surge & Spur	A		1
PIC114-4004	Wiring Schematic - 8 Functional Supply	E		1
PIC114-4015	FSP 03 Clearance Details for Schneider ARS	A	16-08-16	1
PIC114-4016	FSP 03 Clearance Details for Camlin ARS	A	16-08-16	1
PIC114-4018	Wiring Schematic - 2 Functional Supply	D		1
PIC114-4019	Wiring Schematic - 4 Functional Supply	C		1
PIC114-4020	Wiring Schematic - 6 Functional Supply	B		1
PIC114-5017	FSP 03 Enclosure Traceability Label	B		1
PIC114-5030	FSP 03 Equipment Identification Label	A		1
PIC114-3050	FSP 03 Gland Plate for MCAB8 & MCAB8A	C		1
NA	UniPart Rail FSP File Index Ref NR PA05-06332	NA	16-08-16	1
NA	FSP 03 – 8FSP Image	NA		1
NA	Wand Image	NA		1
NA	Air Vents Image	NA		1
46404/1	kA Testing Facility – Certificate of Selected Verification Tests	1		1
TRD-025800-21-CR-01B	TRaC – Environmental Testing of FSP 03 Location Case	B		1
047242-3PD Technical Report	Short Circuit Assessment	2		1
046450-1r1_3PD Technical Report	Temperature rise Assessment	R2		1
TRA-024559C C01A	TRaC – Certificate of Testing for IK09 – Mechanical Impact Test	A		1
FS 21879	BSI – Certificate of Registration – Quality Management System ISO 9001:2008	NA		1
EMS 563117	BSI – Certificate of Registration – Environmental Management System ISO 14001:2004	NA		1
099776	Railway Industry Supplier Qualification Scheme (RISQS) – Certificate of Verification	NA		1
PA05-06332	Product Acceptance document	NA		1
NR/L2/ELP/27409 Issue 2	Product Specification for Functional Supply Points (FSP)	2		1
NR/L2/ELP/27410 Issue 2	Product Specification for Class II Based Signalling Power Distribution Systems	2		1
NA	UniPart Rail Compliance Commentary	NA		1

# Certificate of Acceptance

PA05/06332

**Manufacturer:**  
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**Issue :** 2  
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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
FOLDER	NETWORK RAIL - Issue 2	2		
FOLDER	06332 – FSP 03 – Issue 2 Evidence	-	29/01/2019	2
FOLDER	06332 – FSP – Misc	-		2

## Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
PIC114-06	O&M Manual	D		1
PIC122-06	FSP04 Operation & Maintenance Manual	B	Feb 2019	2
PIC122-17	Power U Terminal Box Operation & Maintenance Manual	B	Feb 2019	2
PIC129-06	FSP0102 Operation & Maintenance Manual	B	Feb 2019	2

## Certificate History

Issue	Date	Issue History
1	06/07/2016	First accepted for use.
2	26/03/2019	Addition of FSP01/02 and FSP04, Terminal and Earth Continuity Boxes

## Contact Details

### Manufacturer

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**Manufacturer:**  
UniPart Rail

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## General Terms & Conditions

### 1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the Professional 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) 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 Product Acceptance:
  - 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 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 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.

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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.