



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 19ATEX3015X** Issue: **0**

4 Equipment: **Ex Junction Boxes, Type ExRJ, ExGRJ and ExSRJ**

5 Applicant: **Raychem RPG Pvt Ltd.**

6 Address: **Ceat Mahal Annexe 463, Dr. Annie Besant Road, Worli, Mumbai 400030, India**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018                      EN IEC 60079-7:2015/A1:2018                      EN 60079-11:2012  
EN 60079-31:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 1 GD

Ex ia IIC T6...T4 Ga (all IS circuits)  
Ex ia IIIC T85 °C, T100 °C or T135 °C Da  
(all IS circuits)




II 2 GD

Ex eb IIC T6...T4 Gb (all non-IS circuits)  
Ex eb ia IIC T6...T4 Gb (non-IS circuits and IS circuits)  
Ex tb IIIC T85 °C, T100 °C or T135 °C Db  
(all non-IS circuits)  
Ex tb ia IIIC T85 °C, T100 °C or T135 °C Db  
(non-IS circuits and IS circuits)

Refer to Description of Equipment for Ambient Temperature range.

Project Number 70189921

  
N Jones  
Certification Manager

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13 **DESCRIPTION OF EQUIPMENT**

**Ambient Temperature Range**

Enclosure Type	Gasket Material	Ambient Temperature	Temperature Class
Aluminium (RJ Series)	Silicone	-60 °C to +40 °C* or +50 °C ** or +55 °C***	T6 / T85 °C
		-60 °C to +55 °C* or +65 °C **	T5 / T100 °C
		-60 °C to +70 °C*	T4 / T135 °C
	Viton	-30 °C to +40 °C* or +50 °C ** or +55 °C***	T6 / T85 °C
		-30 °C to +55 °C* or +65 °C **	T5 / T100 °C
		-30 °C to +70 °C*	T4 / T135 °C
Glass Reinforced Polyester (GRJ Series)	Silicone	-60 °C to +40 °C* or +50 °C ** or +55 °C***	T6 / T85 °C
		-60 °C to +55 °C* or +65 °C **	T5 / T100 °C
		-60 °C to +70 °C*	T4 / T135 °C
	Viton	-30 °C to +40 °C* or +50 °C ** or +55 °C***	T6 / T85 °C
		-30 °C to +55 °C* or +65 °C **	T5 / T100 °C
		-30 °C to +70 °C*	T4 / T135 °C
Steel (SRJ Series)	Silicone	-60 °C to +40 °C* or +50 °C ** or +55 °C***	T6 / T85 °C
		-60 °C to +55 °C* or +65 °C **	T5 / T100 °C
		-60 °C to +70 °C*	T4 / T135 °C
	Viton	-30 °C to +40 °C* or +50 °C ** or +55 °C***	T6 / T85 °C
		-30 °C to +55 °C* or +65 °C **	T5 / T100 °C
		-30 °C to +70 °C*	T4 / T135 °C

\* - max. power dissipation specified in the product description.

\*\* - 1/2 max. power (except for SRJ 117730 and SRJ 20020060 with 1.5 mm<sup>2</sup> terminals – refer to product description)

\*\*\* - 1/4 max. power (except for SRJ 117730 and SRJ 20020060 with 1.5 mm<sup>2</sup> terminals – refer to product description)

**Type ExRJ, Aluminium Enclosures**

Ex Junction boxes are manufactured from Raychem RPG's pre-certified RJ enclosures (Sira 18 ATEX 3261U – Ex eb and Ex tb) and may be fitted any number of suitably certified terminals, either Ex 'e' or Ex 'ia'. The terminals are fitted onto metal TS32 or TS35 mounting rails, or metal TS15 mounting rails for the smaller sizes, the rails may be fitted vertically or horizontally. The enclosures are capable of providing suitable clearance distances as required by IEC 60079-7 and IEC 60079-11 for increased safety terminals and intrinsically safe terminals respectively. The junction boxes are mounted via fixing holes, within the cast enclosure, but outside the sealed compartment. Gland entries may be fitted to any of the side walls.

The table below contain the maximum dissipated power ratings for each junction box:



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Using 2.5 mm <sup>2</sup> Terminals and above				
Box Reference	Box size			Max. Power Dissipation (W)
	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)	
ExRJ 586434	58	64	34	1.69
ExRJ 986434	98	64	34	2.11
ExRJ 156434	150	64	34	2.42
ExRJ 758057	75	80	57	2.28
ExRJ 128057	125	80	57	2.96
ExRJ 178057	175	80	57	3.12
ExRJ 258054	250	80	54	3.67
ExRJ 101080	100	100	80	2.96
ExRJ 121280	122	120	80	3.44
ExRJ 121290	122	120	90	3.59
ExRJ 161080	160	100	80	3.61
ExRJ 221280	220	120	80	7.27
ExRJ 221290	220	120	90	7.27
ExRJ 141490	140	140	90	4.08
ExRJ 161690	160	160	90	4.58
ExRJ 201490	200	140	90	4.90
ExRJ 261690	260	160	90	6.02
ExRJ 361690	360	160	90	12.41
ExRJ 181810	180	180	100	5.16
ExRJ 281810	280	180	100	6.58
ExRJ 202311	200	230	110	6.13
ExRJ 202318	200	230	180	6.70
ExRJ 282311	280	230	110	7.18
ExRJ 332311	330	230	110	13.41
ExRJ 332318	330	230	180	13.41
ExRJ 402311	400	230	110	9.01
ExRJ 403111	404	313	110	9.94
ExRJ 403118	404	313	180	10.31
ExRJ 603111	600	310	110	13.04
ExRJ 603118	600	310	180	22.04

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Using 1.5 mm <sup>2</sup> Terminals and above				
Box Reference	Box size			Max. Power Dissipation (W)
	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)	
ExRJ 586434	58	64	34	0.98
ExRJ 986434	98	64	34	1.38
ExRJ 156434	150	64	34	1.89
ExRJ 758057	75	80	57	2.27
ExRJ 128057	125	80	57	2.28
ExRJ 178057	175	80	57	3.05
ExRJ 258054	250	80	54	3.98
ExRJ 101080	100	100	80	2.43
ExRJ 121280	122	120	80	3.57
ExRJ 121290	122	120	90	3.76
ExRJ 161080	160	100	80	3.88
ExRJ 221280	220	120	80	14.57
ExRJ 221290	220	120	90	14.57
ExRJ 141490	140	140	90	4.68
ExRJ 161690	160	160	90	5.64
ExRJ 201490	200	140	90	6.06
ExRJ 261690	260	160	90	8.14
ExRJ 361690	360	160	90	12.79
ExRJ 181810	180	180	100	7.04
ExRJ 281810	280	180	100	9.84
ExRJ 202311	200	230	110	9.36
ExRJ 202318	200	230	180	10.65
ExRJ 282311	280	230	110	11.71
ExRJ 332311	330	230	110	13.40
ExRJ 332318	330	230	180	14.37
ExRJ 402311	400	230	110	15.81
ExRJ 403111	404	313	110	17.89
ExRJ 403118	404	313	180	18.71
ExRJ 603111	600	310	110	24.82
ExRJ 603118	600	310	180	32.75

**Type ExGRJ, Glass Reinforced Polyester (GRP) Enclosures**

Ex Junction boxes are manufactured from Raychem RPG's pre-certified GRJ enclosures (Sira 18 ATEX 3261U – Ex eb and Ex tb) and may be fitted any number of suitably certified terminals, either Ex 'e' or Ex 'ia'. The terminals are fitted onto metal TS32 or TS35 mounting rails, or metal TS15 mounting rails for the smaller sizes, the rails may be fitted vertically or horizontally. The enclosures are capable of providing suitable clearance distances as required by IEC 60079-7 and IEC 60079-11 for increased safety terminals and intrinsically safe terminals respectively. Fixing holes are provided as an integral part of the enclosure but these are external to the sealed terminal compartment. Gland entries may be fitted to any of the side walls. Earth continuity plate may be fitted as permitted by the component certification.

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**Sira Certification Service**  
Unit 6 Hawarden Industrial Park,  
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900  
Fax: +44 (0) 1244 681330  
Email: [ukinfo@csagroup.org](mailto:ukinfo@csagroup.org)  
Web: [www.csagroupuk.org](http://www.csagroupuk.org)



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The table below contain the maximum dissipated power ratings for each junction box:

Using 2.5 mm <sup>2</sup> Terminals and above				
Box Reference	Box size			Max. Power Dissipation (W)
	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)	
ExGRJ 807555	80	75	55	0.69
ExGRJ 117555	110	75	55	1.20
ExGRJ 167555	160	75	55	2.18
ExGRJ 197555	190	75	55	2.81
ExGRJ 167575	160	75	75	2.35
ExGRJ 807575	80	75	75	0.94
ExGRJ 117575	110	75	75	1.41
ExGRJ 197575	190	75	75	2.95
ExGRJ 121290	122	120	90	2.38
ExGRJ 161690	160	160	90	3.58
ExGRJ 221290	220	120	90	3.86
ExGRJ 261690	260	160	90	4.76
ExGRJ 361690	360	160	90	5.76
ExGRJ 252512	255	250	120	8.74
ExGRJ 252516	255	250	160	8.74
ExGRJ 402512	400	250	120	8.70
ExGRJ 402516	400	250	160	9.66
ExGRJ 404012	400	405	120	11.66
ExGRJ 404020	400	405	201	15.48
ExGRJ 602512	600	250	120	11.66
ExGRJ 602516	600	250	160	13.74

Using 1.5 mm <sup>2</sup> Terminals and above				
Box Reference	Box size			Max. Power Dissipation (W)
	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)	
ExGRJ 807555	80	75	55	1.01
ExGRJ 117555	110	75	55	1.72
ExGRJ 167555	160	75	55	3.10
ExGRJ 197555	190	75	55	4.00
ExGRJ 167575	160	75	75	3.33
ExGRJ 807575	80	75	75	1.35
ExGRJ 117575	110	75	75	2.02
ExGRJ 197575	190	75	75	4.08
ExGRJ 121290	122	120	90	3.38
ExGRJ 161690	160	160	90	4.89
ExGRJ 221290	220	120	90	4.99
ExGRJ 261690	260	160	90	5.89
ExGRJ 361690	360	160	90	6.89
ExGRJ 252512	255	250	120	11.72

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Fax: +44 (0) 1244 681330  
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Using 1.5 mm <sup>2</sup> Terminals and above				
Box Reference	Box size			Max. Power Dissipation (W)
	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)	
ExGRJ 252516	255	250	160	11.72
ExGRJ 402512	400	250	120	9.83
ExGRJ 402516	400	250	160	10.87
ExGRJ 404012	400	405	120	13.06
ExGRJ 404020	400	405	201	17.19
ExGRJ 602512	600	250	120	12.79
ExGRJ 602516	600	250	160	19.41

**Type ExSRJ, Stainless Steel or Mild Steel Enclosures**

Ex Junction boxes are manufactured from Raychem RPG's pre-certified SRJ enclosures (Sira 18 ATEX 3261U – Ex eb and Ex tb) and may be fitted any number of suitably certified terminals, either Ex 'e' or Ex 'ia'. The terminals are fitted onto metal TS32 or TS35 mounting rails, or metal TS15 mounting rails for the smaller sizes, the rails may be fitted vertically or horizontally. The enclosures are capable of providing suitable clearance distances as required by IEC 60079-7 and IEC 60079-11 for increased safety terminals and intrinsically safe terminals respectively. Back-straps/mounting lugs are welded to the back of the enclosure to provide fixings.

The table below contain the maximum dissipated power ratings for each junction box:

Using 2.5 mm <sup>2</sup> Terminals and above				
Box Reference	Box size			Max. Power Dissipation (W)
	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)	
ExSRJ 101060	100	100	60	2.77
ExSRJ 111165	110	110	65	3.07
ExSRJ 141493	143	143	93	3.45
ExSRJ 151590	150	150	90	3.50
ExSRJ 191910	190	190	100	3.94
ExSRJ 191918	193	193	186	7.33
ExSRJ 221613	220	165	130	4.16
ExSRJ 211613	218	168	130	4.17
ExSRJ 211621	218	168	210	4.73
ExSRJ 372115	377	218	156	5.76
ExSRJ 372121	377	218	210	11.42
ExSRJ 231513	229	152	130	4.13
ExSRJ 262615	260	265	150	5.27
ExSRJ 262620	260	265	200	5.74
ExSRJ 303015	306	306	150	5.95
ExSRJ 303020	306	306	200	6.50
ExSRJ 352615	350	265	150	5.94
ExSRJ 352620	350	265	200	6.49
ExSRJ 373715	377	377	156	7.28

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Hawarden, CH5 3US, United Kingdom

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Fax: +44 (0) 1244 681330  
Email: [ukinfo@csagroup.org](mailto:ukinfo@csagroup.org)  
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Using 2.5 mm <sup>2</sup> Terminals and above				
Box Reference	Box size			Max. Power Dissipation (W)
	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)	
ExSRJ 373721	377	377	210	8.02
ExSRJ 453815	458	382	150	8.03
ExSRJ 453820	458	388	200	8.85
ExSRJ 484815	480	480	150	9.35
ExSRJ 484820	480	480	200	10.21
ExSRJ 524215	527	427	156	9.34
ExSRJ 535315	530	530	150	10.53
ExSRJ 525221	527	527	210	11.59
ExSRJ 553615	550	360	150	16.69
ExSRJ 553620	550	360	200	16.69
ExSRJ 765015	762	508	150	13.00
ExSRJ 765020	762	508	200	14.15
ExSRJ 825715	827	577	156	15.14
ExSRJ 825721	827	577	210	16.50
ExSRJ 825730	827	577	300	39.01
ExSRJ 926120	920	610	200	18.22
ExSRJ 976720	977	677	208	20.71
ExSRJ 976715	977	677	156	19.16
ExSRJ 976730	977	677	300	23.45
ExSRJ 117715	1177	777	156	24.56
ExSRJ 117721	1177	777	210	26.46
ExSRJ 117730	1190	770	300	28.94
ExSRJ 20020060	2000	2000	600	58.07

Using 1.5 mm <sup>2</sup> Terminals and above				
Box Reference	Box size			Max. Power Dissipation (W)
	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)	
ExSRJ 101060	100	100	60	3.11
ExSRJ 111165	110	110	65	3.45
ExSRJ 141493	143	143	93	4.35
ExSRJ 151590	150	150	90	4.45
ExSRJ 191910	190	190	100	5.43
ExSRJ 191918	193	193	186	10.45
ExSRJ 221613	220	165	130	5.92
ExSRJ 211613	218	168	130	5.94
ExSRJ 211621	218	168	210	7.17
ExSRJ 372115	377	218	156	9.47
ExSRJ 372121	377	218	210	14.43
ExSRJ 231513	229	152	130	5.84
ExSRJ 262615	260	265	150	8.37

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Box Reference	Box size			Max. Power Dissipation (W)
	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)	
ExSRJ 262620	260	265	200	9.19
ExSRJ 303015	306	306	150	9.88
ExSRJ 303020	306	306	200	10.44
ExSRJ 352615	350	265	150	9.87
ExSRJ 352620	350	265	200	10.57
ExSRJ 373715	377	377	156	12.23
ExSRJ 373721	377	377	210	12.63
ExSRJ 453815	458	382	150	13.58
ExSRJ 453820	458	388	200	13.98
ExSRJ 484815	480	480	150	15.40
ExSRJ 484820	480	480	200	15.68
ExSRJ 524215	527	427	156	15.42
ExSRJ 535315	530	530	150	16.97
ExSRJ 525221	527	527	210	17.20
ExSRJ 553615	550	360	150	14.94
ExSRJ 553620	550	360	200	15.22
ExSRJ 765015	762	508	150	20.68
ExSRJ 765020	762	508	200	20.90
ExSRJ 825715	827	577	156	22.78
ExSRJ 825721	827	577	210	23.00
ExSRJ 825730	827	577	300	48.61
ExSRJ 926120	920	610	200	25.08
ExSRJ 976720	977	677	208	27.01
ExSRJ 976715	977	677	156	26.83
ExSRJ 976730	977	677	300	27.45
ExSRJ 117715	1177	777	156	31.83
ExSRJ 117721	1177	777	210	31.99
ExSRJ 117730	1190	770	300	80.51 (24.0 W for 30 K temperature rise and 9 W for 25 K temperature rise – instead of half power and quarter power as other enclosures)
ExSRJ 20020060	2000	2000	600	80.51 (24.0 W for 30 K temperature rise and 9 W for 25 K temperature rise – instead of half power and quarter power as other enclosures)

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Fax: +44 (0) 1244 681330  
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**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Sira Reports and Certificate History**

Issue	Date	Report number	Comment
0	29 March 2019	R70189921A	The release of the prime certificate.

**15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)**

- 15.1 All cable entry devices shall be suitably certified for protection types 'eb' and 'tb', and all unused openings shall be fitted with suitable blanking elements with protection types 'eb' and 'tb' so that min. ingress protection of IP 64 is maintained.
- 15.2 The terminals including all accessories shall be used within their stated temperature range/electrical ratings/wire size/torque values and fitted in accordance with any restrictions that are stated in their relevant certificate and the instructions.
- 15.3 Manually cut cross connections and cross connections with blank ends shall not be used.
- 15.4 When CONNECTWELL terminals are used in intrinsically safe circuits, the terminals shall not be used for voltages above 60 V peak.
- 15.5 Type WDU and WPE terminals can be used with either one or two wires into either side of the terminal. When two wires are used they must be of the same type, and of equal sizes. No other wire sizes or types than the ones specified in instructions must be used. The terminal blocks must either be mounted next to another block of the same type and size or with an end plate.
- 15.6 For type RBO 8, RBO 10 and RBO 12 terminals only, the tests carried out had the result that a two conductor connection on the RBO 8, 10, 12 terminal block is generally possible. For two conductor connections, only cable lugs for compression connections acc. to DIN 46235 shall be used. Two wires of the same size can be connected. Compliance with the air and creepage distances has to be ensured by the user. The maximum load current may not be exceeded by the total current of all connected conductors.
- 15.7 For type RBO 16 only, the tests carried out had the result that a two conductor connection on the RBO 16 terminal block is generally possible. For two conductor connections, only cable lugs for compression connections acc. to DIN 46235 may be used. After compression with the conductor, the cable lugs have to be insulated with a shrinking sleeve. Compliance with the air and creepage distances has to be ensured by the user. The maximum load current may not be exceeded by the total current of all connected conductors.

**16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

**17 CONDITIONS OF MANUFACTURE**

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

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Unit 6 Hawarden Industrial Park,  
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900  
Fax: +44 (0) 1244 681330  
Email: [ukinfo@csagroup.org](mailto:ukinfo@csagroup.org)  
Web: [www.csagroupuk.org](http://www.csagroupuk.org)



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- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The products covered by this certificate incorporate previously certified terminals, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these terminals, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.
- 17.4 Terminals when used for intrinsically safe circuits shall be clearly marked and identifiable.
- 17.5 When junction boxes are fitted with terminals that are wired by the manufacturer, a routine electric strength test shall be carried out in accordance with EN IEC 60079-7:2015/A1:2018, Clause 7.1. Where the working voltage (U) exceeds 90 V, this is at  $(1000 + 2U)$  Vac or 1500 Vac, whichever is greater, for 60 seconds, alternatively the test may be done at 1.2 times that figure for 100 ms. Where the working voltage (U) does not exceed 90 V, the test is performed at 500 Vac for 60 seconds, or 1.2 times that figure for 100 ms.
- 17.6 The manufacturer shall include in the instruction documents that are provided with this equipment the specific information that is defined in this report. This information shall remain consistent throughout any subsequent revision to these documents. The manufacturer shall supply the user/installer with a copy of the certificate that applies to the terminals that are fitted in the junction box.
- 17.7 The dissipated power of any given enclosure configuration populated with terminals and wiring shall be calculated using EN IEC 60079-7:2015/A1:2018 Annex E.2 and shall not exceed the rated maximum dissipated power for the enclosure type and size.
- 17.8 The equipment shall be installed with terminals that are suitable for the rated voltage and shall be marked accordingly.
- 17.9 The minimum operating temperature of the installed terminals and enclosure shall be suitable for the minimum ambient temperature marked on the equipment.
- 17.10 The maximum operating temperature of the installed terminals and enclosure shall be suitable for the maximum surface temperature marked on the equipment.

# Certificate Annexe



Certificate Number: Sira 19ATEX3015X  
Equipment: Ex Junction Boxes, Type ExRJ, ExGRJ and ExSRJ  
Applicant: Raychem RPG Pvt Ltd.

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## Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
EX-RJ-STDx-00	1 to 2	00	22 Mar 19	ExRJ Standard Drawing
EX-RJ-X-LABEL	1 of 1	00	14 Mar 19	ExRJ Marking Label
EX-GRJ-STDx-00	1 to 2	00	22 Mar 19	ExGRJ Standard Drawing
EX-GRJ-X-LABEL	1 of 1	00	14 Mar 19	ExGRJ Marking Label
EX-SRJ-STDx-00	1 to 2	00	22 Mar 19	ExSRJ Standard Drawing
EX-SRJ-X-LABEL	1 of 1	00	14 Mar 19	ExSRJ Marking Label
EX-TR-CC-00	1 of 1	00	14 Mar 19	Clearance and Creepage drawing
RRPL/EXJB/TBD/00	1 to 8	00	14 Mar 19	Terminal block list

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