

Certificate of Conformity

Ex EQUIPMENT

Certificate No.:	ANZEx 16.2005X	Current Issue:	5	Date of Issue:	2021-03-24
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Applicant: **Ausproof Pty Ltd**
6 Shona Avenue
GLADSTONE QLD 4680
AUSTRALIA

Equipment: Restrained Plugs and Receptacles for working voltages up to and including 3.3 kV


Type of Explosion Protection: Flameproof "d"

Explosion Protection Marking: Ex db I Mb Type A

*This certificate is granted subject to the requirements as set out in
Joint Accreditation System of Australia and New Zealand Publications
ANZEx System Rules 2020 & ANZEx Certified Equipment Scheme Rules 2021*

Signed for and on behalf of issuing body

Name & Position


Geoff Barnier
Principal Engineer - Certification

This certificate is not transferable and remains the property of the issuing body.

The status of this certificate can be confirmed through the database located at www.anzex.com.au

Certificate issued by:

Safety in Mines, Testing and Research Station
2 Robert Smith Street, REDBANK QLD 4301

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Manufacturer : Ausproof Pty Ltd
6 Shona Avenue
GLADSTONE QLD 4680
AUSTRALIA

**Additional
Manufacturing
Location(s):** None

STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

AS/NZS 1299:2009 Electrical equipment for mines and quarries – Explosion-protected three-phase plugs and receptacles for working voltages up to and including 3.3 kV (including Amendment No. 1 dated 30 March 2012)

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

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Schedule

Equipment Description:

The Ausproof range of plugs and receptacles are listed below. The plugs and receptacles are manufactured in either 304 stainless steel or high tensile brass and were assessed and tested as Type A restrained plugs and receptacles as defined in AS/NZS 1299:2009.

The assemblies employ explosion protection technique Ex d for both the contact chamber and the connection chamber within their design. Both the plug and receptacle consist of a main integral outer body housing which retains an adjustable cage arrangement used for the retention of the associated sockets or pins. The contact/pin interface between the plug and receptacle is achieved via a pawl arrangement which also maintains contact integrity.

Various base components used in the manufacture of the listed models are interchangeable between the various models.

Model identifiers for all the restrained plugs and receptacles

Plug Model Number	Receptacle Model Number		Back to Back Receptacle Model Number		Voltage rating (V)	Current rating (A)	No. of pins	Common Gland Mount	Common Gland Bracket	Common Body type
	Jack in Type	Quick release	Jack in Type	Quick release						
P664	R664	N/A	BB664	N/A	660	60	4	GMPES	GBPES	00 Extra small body
P164	R164	N/A	BB164	N/A	1100	60	4			
P614	R614	QRR614	BB614	QRBB614	660	150	4	GMPS	GBPS	01 Small body
P114	R114	QRR114	BB114	QRBB114	1100	150	4			
P334	R334	QRR334	BB334	QRBB334	3300	300	4	GMPL	GBPL	02 Large body
P634	R634	QRR634	BB634	QRBB634	660	300	4			
P134	R134	QRR134	BB134	QRBB134	1100	300	4			
P344	R344	QRR344	BB344	QRBB344	3300	425	4			
P644	R644	QRR644	BB644	QRBB644	660	425	4			
P144	R144	QRR144	BB144	QRBB144	1100	425	4			
P136	R136	QRR136	BB136	QRBB136	1100	300	6			
P336	R336	QRR336	BB336	QRBB336	3300	300	6			
P146	R146	QRR146	BB146	QRBB146	1100	425	6			
P346	R346	QRR346	BB346	QRBB346	3300	425	6			

Electrical Ratings/Parameters

Refer table in Equipment description.

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Specific Conditions of Use:

1. Flameproof joints are not intended to be repaired. Contact the original manufacturer for guidance and information on the dimensions of the flameproof joints.

Conditions of Certification:

None

Additional Information:

1. The equipment was also tested and found to comply with the requirements of IP55 in accordance with AS 60529-2004.
2. Segregation between pilot pins and earth within the 60 A and 150 A receptacles comply with the requirements for voltages up to 160 V in accordance with AS/NZS 60079-7:2015 Table 2.
3. Ensure plug and receptacle are electrically bonded and earthed to ensure induced voltages are not developed.
4. The following referred standards were used in the verification of the equipment for compliance with AS/NZS 1299:2009:
 - AS/NZS 60079-0:2012 Explosive atmospheres - Part 0: Equipment - General requirements
 - AS/NZS 60079-1:2015 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures 'd'
5. Additional temperature rise testing was conducted for an applied current of 80 A and 90 A at Ausproof's request. Testing was conducted in accordance with clause 3.3.9 of AS/NZS 1299:2009. The acceptance criteria of 3.3.9.6(b) of AS/NZS 1299:2009 was applied: The highest temperature within the plug and receptacle shall not in an instance be greater than 45 K above ambient temperature. Temperature rise of plug/receptacle with respect to cable temperature could not be verified as the supplied cable (Olex 10 mm² Type 241.0) was not rated for 80/90 A current.
6. In accordance with clause 11.3 of AS/NZS 60079-1:2015, the following fastener property class shall apply:
 - Fixing gland bracket to receptacle: property class ≥ 4.6
 - Fixing compression clamp: property class ≥ 12.9
 - Fixing receptacle to Ex d enclosure: property class ≥ 4.6 , or greater than or equal to the fastener property class specified for the Ex enclosure, whichever is the greater

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Register of Issues and Variations

includes the current issue

Issue 0 dated 2017-02-06

Restrained plugs and receptacles for working voltages up to and including 3.3 kV

Plug Model Number	Receptacle Model Number	Voltage Rating (V)	Current Rating (A)	No. of pins	Common Base Components		
					Body type	Cage Assembly	Phase Pin Diameter
P614	R614	660	150	4	Small body	4 pin small cage	12.62-12.67
P114	R114	1100	150	4			12.62-12.67
P334	R334	3300	300	4	Large body	4 pin large cage	12.62-12.67
P634	R634	660	300	4			15.80-15.85
P134	R134	1100	300	4			15.80-15.85
P344	R344	3300	425	4			15.80-15.85
P644	R644	660	425	4		18.97-19.02	
P144	R144	1100	425	4		18.97-19.02	
P136	R136	1100	300	6		6 pin cage	12.62-12.67
P336	R336	3300	300	6			12.62-12.67
P146	R146	1100	425	6	15.80-15.85		
P346	R346	3300	425	6	15.80-15.85		

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs:	NE16/0033; Simtars
QAR No. & Issuing CB:	E16/0022; Simtars
File Reference:	15/0152

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Pages / Sheets	Document Title	Revision	Date
Certification Drawings				
ExRPR300M2-1000	1	300 Series Index	19	18/01/2017
ExRPR300M2-1100	1	Common 300 Receptacle Body	19	18/01/2017
ExRPR300M2-1101	1	Common 300 Plug Body	19	18/01/2017
ExRPR300M2-1102	1	300 Plug And Receptacle Engaged	19	18/01/2017
ExRPR300M2-1103	1	300 FLAME PATH SPECIFICATIONS	19	18/01/2017
ExRPR300M2-1104	1	300 FLAME PATH SPECIFICATIONS	19	18/01/2017
ExRPR300M2-1105	1	300 FLAME PATH SPECIFICATIONS	19	18/01/2017
ExRPR300M2-1106	1	300 FLAME PATH SPECIFICATIONS	19	18/01/2017

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Document Number	Pages / Sheets	Document Title	Revision	Date
ExRPR300M2-1200	1	660V 300A 4 Pin	19	18/01/2017
ExRPR300M2-1201	1	660V 425A 4 Pin	19	18/01/2017
ExRPR300M2-1202	1	1.1kV 300A 4 pin	19	18/01/2017
ExRPR300M2-1203	1	1.1kV 300A 6 Pin	19	18/01/2017
ExRPR300M2-1204	1	1.1kV 425A 4 Pin	19	18/01/2017
ExRPR300M2-1205	1	1.1kV 425A 6 Pin	19	18/01/2017
ExRPR300M2-1206	1	3.3kV 300A 4 pin	19	18/01/2017
ExRPR300M2-1207	1	3.3kV 300A 6 Pin	19	18/01/2017
ExRPR300M2-1208	1	3.3kV 425A 4 pin	19	18/01/2017
ExRPR300M2-1209	1	3.3kV 425A 6 Pin	19	18/01/2017
ExRPR300M2-1300	1	300 O-RING SPECIFICATIONS	19	18/01/2017
ExRPR300M2-1301	1	300 CAVITY VOLUME MIN PLUG ENGAGEMENT	19	18/01/2017
ExRPR300M2-1302	1	300 CONDUCTOR CABLE INSERTION/HOLE DEPTHS	19	18/01/2017
ExRPR300M2-1303	1	Common 300 Plug Cable Clamp Assembly	19	18/01/2017
ExRPR300M2-1304	1	300 RECEPTACLE AND PLUG CAGE DIMENSIONS	19	18/01/2017
ExRPR300M2-1305	1	300 RECEPTACLE AND PLUG CAGE DIMENSIONS	19	18/01/2017
ExRPR300M2-1306	1	16-150mm2 &185mm2 PHASE INSULATOR ASSEMBLY	19	18/01/2017
ExRPR300M2-1307	1	Common 300 Pawl Assembly	19	18/01/2017
ExRPR300M2-1308	1	CAGE LOCKING SCREW DETAIL	19	18/01/2017
ExRPR300M2-1309	1	MATERIAL SCHEDULE	19	18/01/2017
ExRPR150M2-1000	1	150 Series Index	20	18/01/2017
ExRPR150M2-1100	1	Common 150 Receptacle Body	20	18/01/2017
ExRPR150M2-1101	1	Common 150 Plug Body	20	18/01/2017
ExRPR150M2-1102	1	150 PLUG AND RECEPTACLE ENGAGED	20	18/01/2017
ExRPR150M2-1103	1	150 FLAME PATH SPECIFICATIONS	20	18/01/2017
ExRPR150M2-1200	1	660V 150A 4 pin	20	18/01/2017
ExRPR150M2-1201	1	1.1kV 150A 4 pin	20	18/01/2017
ExRPR150M2-1300	1	150 O-RING SPECIFICATIONS	20	18/1/2017
ExRPR150M2-1301	1	150 CAVITY VOLUME MIN PLUG ENGAGEMENT	20	18/01/2017
ExRPR150M2-1302	1	150 CONDUCTOR CABLE INSERTION/HOLE DEPTHS	20	18/01/2017
ExRPR150M2-1303	1	Common 150 Plug Cable Clamp Assembly	20	18/01/2017

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Document Number	Pages / Sheets	Document Title	Revision	Date
ExRPR150M2-1304	1	150 RECEPTACLE AND PLUG CAGE DIMENSIONS	20	18/01/2017
ExRPR150M2-1305	1	Common 150 Pawl Assembly	20	18/01/2017
ExRPR150M2-1306	1	CAGE LOCKING SCREW DETAIL	20	18/01/2017
ExRPR150M2-1307	1	Material Schedule	20	18/01/2017
Customer Drawings				
ExRPR150M2-C1000	1	150 Series Index CUSTOMER COPY	0	30/01/2017
ExRPR150M2-C1100	1	Common 150 Receptacle Body CUSTOMER COPY	0	30/01/2017
ExRPR150M2-C1101	1	Common 150 Plug Body CUSTOMER COPY	0	30/01/2017
ExRPR150M2-C1102	1	150 PLUG AND RECEPTACLE ENGAGED CUSTOMER COPY	0	30/01/2017
ExRPR150M2-C1103	1	150 FLAME PATH SPECIFICATIONS CUSTOMER COPY	0	30/01/2017
ExRPR150M2-C1303	1	Common 150 Plug Cable Clamp Assembly CUSTOMER COPY	0	30/01/2017
ExRPR150M2-C1307	1	Fastener Schedule CUSTOMER COPY	0	30/01/2017
ExRPR300M2-C1000	1	300 Series Index CUSTOMER COPY	0	31/01/2017
ExRPR300M2-C1100	1	Common 300 Receptacle Body CUSTOMER COPY	0	31/01/2017
ExRPR300M2-C1101	1	Common 300 Plug Body CUSTOMER COPY	0	31/01/2017
ExRPR300M2-C1102	1	300 Plug & Receptacle Engaged CUSTOMER COPY	0	31/01/2017
ExRPR300M2-C1103	1	300 FLAME PATH SPECIFICATIONS CUSTOMER COPY	0	31/01/2017
ExRPR300M2-C1104	1	300 FLAME PATH SPECIFICATIONS CUSTOMER COPY	0	31/01/2017
ExRPR300M2-C1105	1	300 FLAME PATH SPECIFICATIONS CUSTOMER COPY	0	31/01/2017
ExRPR300M2-C1106	1	300 FLAME PATH SPECIFICATIONS CUSTOMER COPY	0	31/01/2017
ExRPR300M2-C1303	1	Common 300 Plug Cable Clamp Assembly CUSTOMER COPY	0	31/01/2017
ExRPR300M2-C1306	1	16-150mm ² & 185mm ² PHASE INSULATOR ASSEMBLY CUSTOMER COPY	0	31/01/2017
ExRPR300M2-C1309	1	FASTENER SCHEDULE CUSTOMER COPY	0	31/01/2017

Issue 1 dated 2017-11-24

Variations Permitted by this Issue

- An addition of an O-ring groove and a sealing O-ring located on the receptacle flange on all receptacle models.
- An addition of a quick release receptacle model for the 150A, 300A and 425A range of receptacles identified with the prefix QR on the receptacle part number.

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Plug Model Number	Receptacle Model Number		Voltage rating (V)	Current rating (A)	No. of pins	Common base components		
	Jack in Type	Quick Release				Body type	Cage assembly	Phase pin diameter
P614	R614	QRR614	660	150	4	Small body	4 pin small cage	12.62-12.67
P114	R114	QRR114	1100	150	4			12.62-12.67
P334	R334	QRR334	3300	300	4	Large body	4 pin large cage	12.62-12.67
P634	R634	QRR634	660	300	4			15.80-15.85
P134	R134	QRR134	1100	300	4			15.80-15.85
P344	R344	QRR344	3300	425	4			15.80-15.85
P644	R644	QRR644	660	425	4			18.97-19.02
P144	R144	QRR144	1100	425	4			18.97-19.02
P136	R136	QRR136	1100	300	6		6 pin cage	12.62-12.67
P336	R336	QRR336	3300	300	6			12.62-12.67
P146	R146	QRR146	1100	425	6			15.80-15.85
P346	R346	QRR346	3300	425	6			15.80-15.85

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: NE17/0027; Simtars
 QAR No. & Issuing CB: E17/0005; Simtars
 File Reference: 17/0067

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Pages / Sheets	Document Title	Revision	Date
Certification Drawings				
ExRPR300M2-1000	1	300 Series Index	20	06/10/2017
ExRPR300M2-1100	1	Common 300 Receptacle Body	20	06/10/2017
ExRPR300M2-1102	1	300 Plug And Receptacle Engaged	20	06/10/2017
ExRPR300M2-1200	1	660V 300A 4 Pin	20	06/10/2017
ExRPR300M2-1201	1	660V 425A 4 Pin	20	06/10/2017
ExRPR300M2-1202	1	1.1kV 300A 4 Pin	20	06/10/2017
ExRPR300M2-1203	1	1.1kV 300A 6 Pin	20	06/10/2017
ExRPR300M2-1204	1	1.1kV 425A 4 Pin	20	06/10/2017
ExRPR300M2-1205	1	1.1kV 425A 6 Pin	20	06/10/2017

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Document Number	Pages / Sheets	Document Title	Revision	Date
ExRPR300M2-1206	1	3.3kV 300A 4 pin	20	06/10/2017
ExRPR300M2-1207	1	3.3kV 300A 6 pin	20	06/10/2017
ExRPR300M2-1208	1	3.3kV 425A 4 pin	20	06/10/2017
ExRPR300M2-1209	1	3.3kV 425A 6 Pin	20	06/10/2017
ExRPR300M2-1300	1	300 O-RING SPECIFICATIONS	20	06/10/2017
ExRPR300M2-1301	1	300 CAVITY VOLUME MIN PLUG ENGAGEMENT	20	06/10/2017
ExRPR300QR-1310	1	Common 300 Receptacle Body Quick Release	1	02/08/2017
ExRPR300QR-1311	1	Common 300 Receptacle Body Rear Flamepath	1	02/08/2017
ExRPR150M2-1000	1	150 Series Index	21	06/10/2017
ExRPR150M2-1100	1	Common 150 Receptacle Body	21	06/10/2017
ExRPR150M2-1102	1	150 PLUG AND RECEPTACLE ENGAGED	21	06/10/2017
ExRPR150M2-1200	1	660V 150A 4 Pin	21	06/10/2017
ExRPR150M2-1201	1	1.1kV 150A 4 Pin	21	06/10/2017
ExRPR150M2-1300	1	150 O-RING SPECIFICATIONS	21	06/10/2017
ExRPR150M2-1301	1	150 CAVITY VOLUME MIN PLUG ENGAGEMENT	21	06/10/2017
ExRPR150QR-1308	1	Common 150 Receptacle Body Quick Release	1	02/08/2017
ExRPR150QR-1309	1	Common 150 Receptacle Body Rear Flamepath	1	02/08/2017

Customer Drawings

ExRPR150M2-C1000	1	150 Series Index CUSTOMER COPY	1	06/10/2017
ExRPR150M2-C1100	1	Common 150 Receptacle Body CUSTOMER COPY	1	06/10/2017
ExRPR150M2-C1102	1	150 PLUG AND RECEPTACLE ENGAGED CUSTOMER COPY	1	06/10/2017
ExRPR150M2-C1104	1	Common 150 QR Receptacle Body CUSTOMER COPY	1	06/10/2017
ExRPR300M2-C1000	1	300 Series Index CUSTOMER COPY	1	06/10/2017
ExRPR300M2-C1100	1	Common 300 Receptacle Body CUSTOMER COPY	1	06/10/2017
ExRPR300M2-C1102	1	300 Plug & Receptacle Engaged CUSTOMER COPY	1	06/10/2017
ExRPR300M2-C1107	1	Common QR 300 Receptacle Body CUSTOMER COPY	1	06/10/2017

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Issue 2 dated 2018-10-12

Variations Permitted by this Issue

- The addition of a smaller inside diameter gland sealing ring to existing 150 A, 300 A / 425 A body range.
- The addition of a 60 A - 660 V and a 60 A - 1100 V plug and receptacle model to the range of plugs and receptacles.
- The addition of a Gland Bracket and a Gland Mount bracket assembly to the range. Both the Gland Bracket and the Gland Mount assemblies provide an optional mounting arrangement for the associated Type A receptacle or may be bolted directly onto an enclosure's Type A receptacle mounting pad. Neither the Gland Bracket nor Gland Mount assemblies are directly fitted with contact pins or sockets. The only difference between the Gland Bracket and Gland Mount assemblies is that the Gland Mount is fitted with an O-ring and O-ring groove located in the rear flange while the Gland Bracket does not.

Restrained plugs and receptacles for working voltages up to and including 3.3 kV

Plug Model Number	Receptacle Model Number		Gland Mount	Gland Bracket	Voltage rating (V)	Current rating (A)	No. of pins	Common base components		
	Jack in Type	Quick release						Body type	Cage assembly	Phase pin diameter
P664	R664	N/A	GM664	GB664	660	60	4	00 Extra small body	4 pin Extra small cage	6.28-6.32
P164	R164	N/A	GM164	GB164	1100	60	4	00 Extra small body	4 pin Extra small cage	6.28-6.32
P614	R614	QRR614	GM614	GB614	660	150	4	01 Small body	4 pin small cage	12.62-12.67
P114	R114	QRR114	GM114	GB114	1100	150	4			12.62-12.67
P334	R334	QRR334	GM334	GB334	3300	300	4	02 Large body	4 pin large cage	12.62-12.67
P634	R634	QRR634	GM634	GB634	660	300	4			15.80-15.85
P134	R134	QRR134	GM134	GB134	1100	300	4			15.80-15.85
P344	R344	QRR344	GM344	G344	3300	425	4			15.80-15.85
P644	R644	QRR644	GM644	GB644	660	425	4			18.97-19.02
P144	R144	QRR144	GM144	GB144	1100	425	4			18.97-19.02
P136	R136	QRR136	GM136	GB136	1100	300	6		6 pin cage	12.62-12.67
P336	R336	QRR336	GM336	GB336	3300	300	6			12.62-12.67
P146	R146	QRR146	GM146	GB146	1100	425	6			15.80-15.85
P346	R346	QRR346	GM346	GB346	3300	425	6			15.80-15.85

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: NE18/0017; Simtars
 QAR No. & Issuing CB: E17/0017/01; Simtars
 File Reference: 17/0069

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Manufacturer's Documents/Drawings associated with this issue:

Document Number	Pages / Sheets	Document Title	Revision	Date
Additional Gland Seal Drawings				
ExRPR150M2-1101	1	Common 150 Plug Body	21	06/10/2017
ExRPR150M2-1104	1	Common 150 Gland Bracket	21	06/10/2017
ExRPR150M2-1303	1	Common 150 Plug Cable Clamp Assembly	21	06/10/2017
ExRPR300M2-1303	1	Common 300 Plug Cable Clamp Assembly	20	06/10/2017
ExRPR300M2-1107	1	Common 300 Gland Bracket	20	06/10/2017
ExRPR300M2-1101	1	Common 300 Plug Body	20	06/10/2017
60A Series drawings				
ExRPR60-1000	1	60 Series Index	1	27/07/2017
ExRPR60-1100	1	Common 60 Receptacle Body	1	27/07/2017
ExRPR60-1101	1	Common 60 Plug Body	1	27/07/2017
ExRPR60-1102	1	60 PLUG AND RECEPTACLE ENGAGED	1	27/07/2017
ExRPR60-1103	1	60 FLAME PATH SPECIFICATIONS	1	27/07/2017
ExRPR60-1104	1	Common 60 Gland Bracket	1	27/07/2017
ExRPR60-1200	1	660V 60A 4 pin	1	27/07/2017
ExRPR60-1201	1	1.1kV 60A 4 pin	1	27/07/2017
ExRPR60-1300	1	60 O-RING SPECIFICATIONS	1	27/07/2017
ExRPR60-1301	1	60 CAVITY VOLUME AND MIN PLUG ENGAGEMENT	1	27/07/2017
ExRPR60-1302	1	60 CONDUCTOR CABLE INSERTION/HOLE DEPTHS	1	27/07/2017
ExRPR60-1303	1	Common 60 Plug Cable Clamp Assembly	1	27/07/2017
ExRPR60-1304	1	60 RECEPTACLE AND PLUG CAGE DIMENSIONS	1	27/07/2017
ExRPR60-1305	1	Common 60 Pawl Assembly	1	27/07/2017

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Document Number	Pages / Sheets	Document Title	Revision	Date
ExRPR60-1306	1	CAGE LOCKING SCREW DETAIL	1	27/07/2017
ExRPR60-1307	1	Material Schedule	1	27/07/2017
Customer Drawings				
ExRPR60-C1000	1	60 Series Index CUSTOMER COPY	1	27/07/2017
ExRPR60-C1100	1	Common 60 Receptacle Body CUSTOMER COPY	1	27/07/2017
ExRPR60-C1101	1	Common 60 Plug Body CUSTOMER COPY	1	27/07/2017
ExRPR60-C1102	1	60 PLUG AND RECEPTACLE ENGAGED CUSTOMER COPY	1	27/07/2017
ExRPR60-C1103	1	60 FLAME PATH SPECIFICATIONS CUSTOMER COPY	1	27/07/2017
ExRPR60-C1303	1	Common 60 Plug Cable Clamp Assembly CUSTOMER COPY	1	27/07/2017
ExRPR60-C1307	1	Material Schedule CUSTOMER COPY	1	27/07/2017
ExRPR150M2-C1101	1	Common 150 Plug Body CUSTOMER COPY	1	06/10/2017
ExRPR300M2-C1101	1	Common 300 Plug Body CUSTOMER COPY	1	06/10/2017
ExRPR150M2-C1303	1	Common 150 Plug Cable Clamp Assembly CUSTOMER COPY	1	06/10/2017
ExRPR300M2-C1303	1	Common 300 Plug Cable Clamp Assembly CUSTOMER COPY	1	06/10/2017

Issue 3 dated 2019-04-09

Variations Permitted by this Issue

- A new range of back-to-back restrained receptacles has been added to the existing range of plugs and receptacles and further defined as:
 - The back to back receptacles are of 60 A, 150 A, 300 A and 425 A body range with voltage ratings of 660 V, 1100 V and 3300 V.
 - The back-to-back receptacles are essentially the already certified receptacles connected together to form a back to back with the following modifications:
 - The addition of a flange seal between the two back-to-back receptacles.

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- The addition of a base plate for supporting the back-to-back receptacle. The back-to-back receptacle are mounted on the base plate instead of the flange mounting as in the case of standard receptacles.
 - The addition of an earth bridging plate for bonding the back-to-back receptacles.
 - While the back-to-back receptacle essentially utilises the same joints as the standard receptacle, the number of joints identified as flame paths has been reduced to two.
 - The back-to-back receptacle is flameproof only when fitted with corresponding plugs.
 - Additional fasteners have been utilized for fastening the new components i.e. earth bridging plate, base plate, and for connecting the receptacle bodies together.
 - Previous star retaining plate replaced by a 4-Pin circular retaining plate.
 - The cage locking screw and internal earthing lug has been removed.
- The Gland Bracket and Gland Mount model ranges have been revised as follows:
 - The Gland Bracket and Gland Mount ranges have been reduced from thirteen to three models in each range
 - A new model identifier has been assigned to each model as listed in the description.
 - As brackets/mounting plates are not voltage or current dependent, the colour code has been removed.

New model identifiers for all the restrained plugs and receptacles

Plug Model Number	Receptacle Model Number		Gland Mount	Gland Bracket	Voltage rating (V)	Current rating (A)	No. of pins	Common base components		
	Jack in Type	Quick release						Body type	Cage assembly	Phase pin diameter
P664	R664	N/A	GM664	GB664	660	60	4	00 Extra small body	4 pin Extra small cage	6.28-6.32
P164	R164	N/A	GM164	GB164	1100	60	4	00 Extra small body	4 pin Extra small cage	6.28-6.32
P614	R614	QRR614	GM614	GB614	660	150	4	01 Small body	4 pin small cage	12.62-12.67
P114	R114	QRR114	GM114	GB114	1100	150	4			12.62-12.67
P334	R334	QRR334	GM334	GB334	3300	300	4	02 Large body	4 pin large cage	12.62-12.67
P634	R634	QRR634	GM634	GB634	660	300	4			15.80-15.85
P134	R134	QRR134	GM134	GB134	1100	300	4			15.80-15.85
P344	R344	QRR344	GM344	G344	3300	425	4			15.80-15.85
P644	R644	QRR644	GM644	GB644	660	425	4		18.97-19.02	
P144	R144	QRR144	GM144	GB144	1100	425	4		18.97-19.02	
P136	R136	QRR136	GM136	GB136	1100	300	6		6 pin cage	12.62-12.67
P336	R336	QRR336	GM336	GB336	3300	300	6			12.62-12.67
P146	R146	QRR146	GM146	GB146	1100	425	6	15.80-15.85		
P346	R346	QRR346	GM346	GB346	3300	425	6	15.80-15.85		

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Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: NE19/0002; Simtars
 QAR No. & Issuing CB: E17/0017/02; Simtars
 File Reference: 18/0012

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Pages / Sheets	Document Title	Revision	Date
Certification Drawings				
ExB2B60-1000	1	60 B2B Series Index	1	23/01/2019
ExB2B60-1100	1	Common B2B Receptacle Body	1	23/01/2019
ExB2B60-1101	1	Plug and B2B Body Engaged	1	23/01/2019
ExB2B60-1200	1	1100V 60A 4 Pin	1	23/01/2019
ExB2B60-1201	1	660V 60A 4 Pin	1	23/01/2019
ExB2B60-1300	1	60 B2B O-Ring Specifications	1	23/01/2019
ExB2B60-1301	1	60 B2B Cavity Volume Min Plug Engagement	1	23/01/2019
ExB2B60-1302	1	60 B2B Pawl Screw Dimensions	1	23/01/2019
ExB2B60-1303	1	60 B2B Contact and Insulator Assemblies	1	23/01/2019
ExB2B60-1304	1	60 B2B Cage Dimensions	1	23/01/2019
ExB2B60-1305	1	Fastener Schedule	1	23/01/2019
ExB2B150-1000	1	150 B2B Series Index	1	23/01/2019
ExB2B150-1100	1	Common B2B Body	1	23/01/2019
ExB2B150-1101	1	Plug and B2B Body Engaged	1	23/01/2019
ExB2B150-1200	1	1100V 150A 4 Pin	1	23/01/2019
ExB2B150-1201	1	660V 150A 4 Pin	1	23/01/2019
ExB2B150-1300	1	150 B2B O-Ring Specifications	1	23/01/2019
ExB2B150-1301	1	150 B2B Cavity Volume Min Plug Engagement	1	23/01/2019
ExB2B150-1302	1	150 B2B Pawl Screw Dimensions	1	23/01/2019
ExB2B150-1303	1	150 B2B Contact and Insulator Assemblies	1	23/01/2019
ExB2B150-1304	1	150 B2B Cage Dimensions	1	23/01/2019
ExB2B150-1305	1	Common 150 B2B Quick Release	1	23/01/2019
ExB2B150-1306	1	Fastener Schedule	1	23/01/2019
ExB2B300-1000	1	300 B2B Series Index	1	23/01/2019
ExB2B300-1100	1	Common B2B Receptacle Body	1	23/01/2019
ExB2B300-1101	1	Plug and B2B Body Engaged	1	23/01/2019
ExB2B300-1200	1	600V 300A 4 Pin	1	23/01/2019
ExB2B300-1201	1	660V 425A 4 Pin	1	23/01/2019

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Document Number	Pages / Sheets	Document Title	Revision	Date
ExB2B300-1202	1	1100V 300A 4 Pin	1	23/01/2019
ExB2B300-1203	1	1100V 300A 6 Pin	1	23/01/2019
ExB2B300-1204	1	1100V 425A 4 Pin	1	23/01/2019
ExB2B300-1205	1	1100V 425A 6 Pin	1	23/01/2019
ExB2B300-1206	1	3300V 300A 4 Pin	1	23/01/2019
ExB2B300-1207	1	3300V 300A 6 Pin	1	23/01/2019
ExB2B300-1208	1	3300V 425A 4 Pin	1	23/01/2019
ExB2B300-1209	1	3300V 425A 6 Pin	1	23/01/2019
ExB2B300-1300	1	300 B2B O-Ring Specifications	1	23/01/2019
ExB2B300-1301	1	300 B2B Cavity Volume Min Plug Engagement	1	23/01/2019
ExB2B300-1302	1	300 B2B Pawl Screw Dimensions	1	23/01/2019
ExB2B300-1303	1	300 B2B Pilot Assemblies	1	23/01/2019
ExB2B300-1304	1	300 B2B Phase Assemblies	1	23/01/2019
ExB2B300-1305	1	300 B2B Phase Assemblies	1	23/01/2019
ExB2B300-1306	1	300 B2B Cage Dimensions	1	23/01/2019
ExB2B300-1307	1	Common 300 B2B Quick Release	1	23/01/2019
ExB2B300-1308	1	Material Schedule	1	23/01/2019
ExRPR60-1104	1	Common 60 Gland Bracket	2	05/11/2018
ExRPR150M2-1104	1	Common 150 Gland Bracket	22	05/11/2018
ExRPR300M2-1107	1	Common 300 Gland Bracket	21	05/11/2018
Customer Drawings				
ExB2B60-C1000	1	60 B2B Series Index Customer Copy	0	05/02/2019
ExB2B60-C1100	1	Common B2B Receptacle Body Customer Copy	0	05/02/2019
ExB2B60-C1101	1	Plug and B2B Body Engaged Customer Copy	0	05/02/2019
ExB2B60-C1305	1	Fastener Schedule Customer Copy	0	05/02/2019
ExB2B150-C1000	1	150 B2B Series Index Customer Copy	0	05/02/2019
ExB2B150-C1100	1	Common B2B Receptacle Body Customer Copy	0	05/02/2019
ExB2B150-C1101	1	Plug and B2B Body Engaged Customer Copy	0	05/02/2019
ExB2B150-C1305	1	COM 150 B2B Quick Release Customer Copy	0	05/02/2019
ExB2B150-C1306	1	Fastener Schedule Customer Copy	0	05/02/2019
ExB2B300-C1000	1	300 B2B Series Index Customer Copy	0	05/02/2019
ExB2B300-C1001	1	300 QR B2B Series Index Customer Copy	0	05/02/2019
ExB2B300-C1100	1	Common B2B Receptacle Body Customer Copy	0	05/02/2019
ExB2B300-C1101	1	Plug and B2B Body Engaged Customer Copy	0	05/02/2019
ExB2B300-C1307	1	300 B2B Quick Release Customer Copy	0	05/02/2019
ExB2B300-C1308	1	Material Schedule Customer Copy	0	05/02/2019

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Document Number	Pages / Sheets	Document Title	Revision	Date
ExRPR60-C1104	1	Common 60 Gland Bracket Customer Copy	1	15/02/2019
ExRPR150M2-C1104	1	Common 150 Gland Bracket Customer Copy	0	05/11/2018
ExRPR300M2-C1107	1	Common 300 Gland Bracket Customer Copy	0	05/11/2018
ExRPR150QR-C1308	1	150 QR Receptacle Body Customer Copy	0	14/02/2019
ExRPR150QR-C1309	1	150 Receptacle Rear FLP Customer Copy	0	14/02/2019
ExRPR300QR-C1310	1	300 QR Receptacle Body Customer Copy	0	14/02/2019
ExRPR300QR-C1311	1	300 Receptacle Rear FLP Customer Copy	0	14/02/2019

Issue 4 dated 2020-10-09

Variations Permitted by this Issue

- Up-issue of applied standards from AS/NZS 60079-0:2012 to AS/NZS 60079.0:2019
- Overpressure testing of receptacle and gland bracket models to allow option of Grade 4.6 fastener for mounting of receptacle to enclosure, and mounting of receptacle to gland bracket.
- Revision of certificate's conditions of use to include fastener property class

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: NE20/0034; Simtars
 QAR No. & Issuing CB: E17/0017/03; Simtars
 File Reference: 20/0063

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Pages / Sheets	Document Title	Revision	Date
Certification Drawings				
ExRPR60-1104	1	Common 60 Gland Bracket	3	30/07/2020
ExRPR60-1307	1	Material Schedule	2	07/10/2020
ExRPR150M2-1105	1	Common 150 Gland Bracket	23	29/07/2020
ExRPR150M2-1307	1	Material Schedule	21	07/10/2020
ExRPR300M2-1108	1	Common 300 Gland Bracket	22	29/07/2020
ExRPR300M2-1309	1	MATERIAL SCHEDULE	20	07/10/2020
TM_698 Section 2	16	Restrained Plugs And Receptacles PES Range Ex 60A	4	07/10/2020
TM_473 Section 2	18	Restrained Plugs And Receptacles PL Range Ex 300/425A	13	07/10/2020
TM_702 Section 2	14	Restrained Plugs And Receptacles PS Range Ex 150A	3	07/10/2020

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Document Number	Pages / Sheets	Document Title	Revision	Date
Customer Drawings				
ExRPR60-C1104	1	Common 60 Gland Bracket CUSTOMER COPY	2	30/07/2020
ExRPR60-C1307	1	Material Schedule CUSTOMER COPY	2	07/10/2020
ExRPR150M2-C1105	1	Common 150 Gland Bracket CUSTOMER COPY	2	29/07/2020
ExRPR150M2-C1307	1	Fastener Schedule CUSTOMER COPY	1	07/10/2020
ExRPR300M2-C1108	1	Common 300 Gland Bracket CUSTOMER COPY	1	29/07/2020
ExRPR300M2-C1309	1	FASTENER SCHEDULE CUSTOMER COPY	1	07/10/2020

Issue 5 dated 2021-03-24

Variations Permitted by this Issue

- Change to IECEx QAR reference number.

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: N/A
 QAR No. & Issuing CB: AU/SIM/QAR20.0001/00; Simtars
 File Reference: 08/0196