

Certificate of Conformity

Ex EQUIPMENT

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|------------------|-----------------------|----------------|---|----------------|------------|
| Certificate No.: | ANZEx 22.4176X | Current Issue: | 1 | Date of Issue: | 2023-09-26 |
|------------------|-----------------------|----------------|---|----------------|------------|

Applicant: **CMI Electrical Products Pty Ltd**
Unit F3, 3-29 Birnie Avenue
Lidcombe NSW 2141
Australia

Equipment: Range of Restrained Earthing Receptacles
60A, 150A and 300A/425A

Type of Explosion Protection: Flameproof 'd'

Explosion Protection Marking: Ex db I Mb

*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

James Bes - Certification Authority

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:

Ex Testing & Certification Pty Ltd
1/30 Kennington Drive, Tomago NSW 2322 Australia

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Manufacturer : **CMI Electrical Products Pty Ltd**
Unit F3, 3-29 Birnie Avenue
Lidcombe NSW 2141
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 retrained plugs and receptacles for working voltages up to and including 3.3 kV
(incorporating Amendment 1)

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

(Certificate format based on template QMA-HAE-08-720 dated 2021-05-18)

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Schedule

Equipment Description:

The 60 Amp, 150 Amp & 300/425 Amp Range of Restrained Earthing Receptacles have cast bodies manufactured from high tensile brass type C86500. The receptacle interior can be manufactured from high tensile brass or stainless steel. The equipment is intended for earthing de-energised restrained plugs when not in use.

The earthing receptacles are mounted on and equipotential bonded to flameproof distribution enclosures. Restrained dummy plugs may be inserted in the receptacles to prevent damage or ingress of dust and water when not in use. The receptacles with restrained plugs or dummy plugs inserted have an IP66/68 rating as assessed to the requirements of IEC60529.

The range of earthing receptacle covered in the scope are:

| Receptacle Part No | Current Rating | Voltage Rating | No of Pins | Restraining Method |
|--------------------|----------------|----------------|------------|--------------------|
| AG664BE | 60 A | 660 V | 4 | Jacking Screw |
| AG614BE | 60A | 1100 V | 4 | Jacking Screw |
| AG164BQRE | 150A | 660V | 4 | Quick Release |
| AG114BQRE | 150A | 1100V | 4 | Quick Release |
| AG364BQRE | 300A | 660 V | 4 | Quick Release |
| AG314BQRE | 300A | 1100V | 4 | Quick Release |
| AG334BQRE | 300A | 3300V | 4 | Quick Release |
| AG316BQRE | 300A | 1100V | 6 | Quick Release |
| AG336BQRE | 300A | 3300V | 6 | Quick Release |
| AG464BQRE | 425A | 660 V | 4 | Quick Release |
| AG414BQRE | 425A | 1100V | 4 | Quick Release |
| AG434BQRE | 425A | 3300V | 4 | Quick Release |
| AG416BQRE | 425A | 1100V | 6 | Quick Release |
| AG436BQRE | 425A | 3300V | 6 | Quick Release |

The earthing receptacles have dimensional compatibility with the specifications provided in AS/NZS 1299:2009 Section 4 according to the current rating, voltage rating and number of pins.

Any corresponding plug complying with AS/NZS 1299:2009 Section 4 according to the current rating, voltage rating and number of pins may be coupled with this receptacle while maintaining its type of protection.

The earthing receptacle may also be mounted to the CMI angle brackets as listed below:

- 60A Mounting Bracket, part no: AV6 (Certification details: IECEx TSA 12.0004X, ANZEx 12.3017)
- 150A Mounting Bracket, part no: AV1 (Certification details: IECEx TSA 14.0033X, ANZEx 14.3016)
- 300/425A Mounting Bracket, part no: AV3 (Certification details: IECEx TSA 13.0005X, ANZEx 13.3002)

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The angle brackets do not form part of the receptacle's flameproof properties.

The receptacles mounting flange is only classified as a flamepath when the earthing receptacle is mounted to a flameproof enclosure that has an existing cable entry hole through the wall to the interior of the enclosure. The special fasteners used to mount the earthing receptacle to the flameproof enclosures shall be of minimum grade 4.6 (yield stress 240 MPa) or A*-70 Stainless Steel (yield stress 450 MPa) or 4.6 Mild Steel (yield stress 240 MPa).

The equipment is manufactured by CMI Electrical Products which also trade as Minto Industrial Products (M.I.P).

The electrical equipment has been designed to AS/NZS 1299:2009 (incorporating amendment No.1)

Electrical Ratings/Parameters

60 Amp, 150 Amp, 300/425 Amp

Specific Conditions of Use:

1. The flange flamepath used to assemble the receptacles to flameproof enclosures shall be of minimum width 12.5mm and maximum gap 0.4mm and a surface roughness R_a of 6.3 μ m or better. This flange is only classified as a flamepath when the earthing receptacle is mounted to a flameproof enclosure that has an existing cable entry hole through the wall to the interior of the enclosure.
2. The earthing receptacle shall be used only with a corresponding plug complying with AS/NZS 1299:2009 Section 4 according to the current rating, voltage rating and number of pins of the receptacle to maintain its type of protection.
3. The special fasteners used to mount the earthing receptacle to the flameproof enclosures shall be of minimum grade 4.6 (yield stress 240 MPa) or A*-70 Stainless Steel (yield stress 450 MPa) or 4.6 Mild Steel (yield stress 240 MPa).

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Current Issue: 1

Date of Issue: 2023-09-26

Register of Issues and Variations

includes the current issue

Issue 0 dated 2022-04-26

Standards relevant for this issue:

AS/NZS 1299:2009
(incorporating Amendment
1)

Electrical equipment for mines and quarries—Explosion-protected three-phase restrained plugs and receptacles for working voltages up to and including 3.3 kV

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs:

REP21159-02

ExTC

QAR No. & Issuing CB:

AU/TSA/QAR11.0009/07

TestSafe Australia

File Reference:

21159

Manufacturer's Documents/Drawings associated with this issue:

| Document/Drawing Title | Document/Drawing Number | Pages / Sheets | Revision | Date |
|---|----------------------------|----------------|----------|------------|
| 60A 660/1100V Restrained Earthing Receptacle | F-880 | 1 | A | 2022-04-01 |
| 150A 660/1100V Q/R Restrained Earthing Receptacle | F-881 | 1 | A | 2022-04-01 |
| 300A 660/1100V Q/R Restrained Earthing Receptacle | F-882 | 1 | A | 2022-04-01 |
| 300A 3300V Q/R Restrained Earthing Receptacle | F-883 | 1 | A | 2022-04-01 |
| 300A 1100/3300V 6P Q/R Restrained Earthing Receptacle | F-884 | 1 | A | 2022-04-01 |
| 425A 660/1100V Q/R Restrained Earthing Receptacle | F-885 | 1 | A | 2022-04-01 |
| 425A 3300V Q/R Restrained Earthing Receptacle | F-886 | 1 | A | 2022-04-01 |
| 425A 1100/3300V 6P Q/R Restrained Earthing Receptacle | F-887 | 1 | A | 2022-04-01 |
| Instructions for 60, 150 & 300/425A Earthing Receptacle | Inst Rest Earth Receptacle | 4 | A | 2022-03-08 |

Issue 1 dated 2023-09-22

Variations Permitted by this Issue

- Change of Applicant and Manufacturing location to new facility

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Date of Issue: 2023-09-26

Standards relevant for this issue:**AS/NZS 1299:2009**
(incorporating
Amendment 1)

Electrical equipment for mines and quarries—Explosion-protected three-phase restrained plugs and receptacles for working voltages up to and including 3.3 kV

Test & Assessment Reports relevant for this issue:

| | | |
|-----------------------|-----------------------------------|--------------------|
| TR No. & Issuing CBs: | No change from the previous issue | |
| QAR No. & Issuing CB: | AU/TSA/QAR11.0009/09 | Testsafe Australia |
| File Reference: | Job 23028 | |

Manufacturer's Documents/Drawings associated with this issue:

No changes to drawings from previous issue of the certificate.