



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx ExTC 21.0017X	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2022-04-26)
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		
Optional accessory:			
Type of Protection:	Flameproof "d"		
Marking:	Ex db I Mb		

Approved for issue on behalf of the IECEx
Certification Body:

James Bes

Position:

Certification Authority

Signature:
(for printed version)

Date:
(for printed version)

2023-09-26

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

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



TESTING & CERTIFICATION



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

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

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

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

[IEC 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[AU/ExTC/ExTR22.0006/00](#)

Quality Assessment Report:

[AU/TSA/QAR11.0009/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

Refer to Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Refer to Annex



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Additional information:

ExTC Job 23028

Annex:

[IECEx ExTC 21.0017X-1 Certificate Annex Final.pdf](#)



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Annex



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Description: (Continued from certificate)

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	60A	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)

 <h1 style="text-align: center;">IECEX Certificate of Conformity</h1> <h2 style="text-align: center;">Annex</h2>		 <p style="text-align: center; font-size: small;">TESTING & CERTIFICATION</p>	
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- 300/425A Mounting Bracket, part no: AV3 (Certification details: IECEX TSA 13.0005X, ANZEx 13.3002)

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) and has been issued with a separate certificate ANZEx 22.4176X in that regard.

Specific Conditions of Use:

- 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.
- 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.
- 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).

Manufacturer's Documents pertaining to this Issue of the Certificate:

Title:	Drawing No.:	Pages	Rev. Level:	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



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Annex



TESTING & CERTIFICATION

Annex to Certificate No.:	IECEX ExTC 21.0017X	Issue No.:	1
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Title:	Drawing No.:	Pages	Rev. Level:	Date:
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

Note: An * is included before the title of documents that are new or revised.

Variations permitted by Issue 1 of this certificate:

Change of Applicant and Manufacturer location to a new facility.