

# Certificate of Conformity

## Ex EQUIPMENT

Certificate No.: **ANZEx 22.4180**

Current Issue: 1

Date of Issue: 2023-09-18

**Applicant:** **CMI Electrical Products**Unit F3  
29 Bernie Avenue  
Lidcombe NSW 2141  
Australia**Equipment:** CMI 60A 660V/1100V Restrained Range of Coupling Devices  
Refer to the description for model numbers**Type of Explosion Protection:** Flameproof 'd'**Explosion Protection Marking:** Ex db I Mb  
IP66 and IP66/68 2 metres 30 minutes

*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 &amp; Position

David Price – 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](http://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**  
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29 Bernie 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 restrained plugs and receptacles for working voltages up to and including 3.3 kV.

*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 60A, 1100V/660V series comprises Restrained Receptacles, Restrained Plugs, Dummy Plugs, Phase Condition Indicator Plugs, Back-to-Back Receptacles and Restrained Receptacles with cable gland and bracket. The equipment is manufactured by CMI Electrical Products, who is also known under name Minto Industrial Products (M.I.P).

The complete assembly consists of a plug, which has three power conducting (phase) sockets and one pilot circuit socket and a receptacle with corresponding phase and pilot pins. Two plugs may be coupled together by means of a restrained coupling device referred to as restrained back-to-back receptacle.

The receptacle may be fitted with a mounting bracket which is designed to match the flange of the receptacle. One possible use of this mounting bracket is to assemble it together with the adaptor so that a separately certified cable gland may be used to provide support for a cable to the receptacle.

The connectors range is rated up to 60A, 660V and 1100V, all with 3 main contacts plus a pilot contact.

Catalogue Number	Description
AF614S	60A 1100V RESTRAINED PLUG
AF664S	60A 660V RESTRAINED PLUG
AF614R	60A 1100V RESTRAINED PLUG WITH INTEGRAL GLAND
AF664R	60A 660V RESTRAINED PLUG WITH INTEGRAL GLAND
AG614B	60A 1100V RESTRAINED RECEPTACLE
AG664B	60A 660V RESTRAINED RECEPTACLE
AH614B	60A 1100V RESTRAINED BACK TO BACK RECEPTACLE
AH664B	60A 660V RESTRAINED BACK TO BACK RECEPTACLE
AR611S	60A 1100V RESTRAINED DUMMY PLUG
AR661S	60A 660V RESTRAINED DUMMY PLUG
AT614R	60A 1100V RESTRAINED PHASE CONDITION INDICATOR
AT664R	60A 660V RESTRAINED PHASE CONDITION INDICATOR
F-4575-20	M20x1.5 Gland Adaptor
F-4575-25	M25x1.5 Gland Adaptor
F-4575-32	M32x1.5 Gland Adaptor
F-4575-40	M40x1.5 Gland Adaptor
F-4575-50	M50x1.5 Gland Adaptor
F-4575-63	M63x1.5 Gland Adaptor

Table 1: Catalogue Model List

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The special fasteners and/or nuts used to assemble the receptacle to the associated Ex d enclosure shall be of the minimum grade 4.6 (yield stress 240 MPa) or for stainless steel minimum grade A\*-70 (yield stress 450MPa).

Mounting and flameproof dimensions of the associated Ex d enclosure interfacing with the receptacle shall comply with the dimensions shown in the certified documents to maintain the flameproof integrity of the flanged joint between Ex d enclosure and receptacle.

The Restrained Plug, Restrained Back to Back Receptacle, Restrained Receptacle, Gland Adaptor and Restrained Plug with Integral Gland have an ingress protection rating IP66/68 (2 metres for 30 minutes) according to the requirements of IEC 60529. The Dummy Plug and Phase Condition Indicator (PCI) have an ingress protection rating of IP66 only.

The manufacturers document TRP-4 "Termination and Maintenance Instructions for 60 AMP 660/1100 Volt Restrained Range" is available and provides instruction regarding installation of the equipment.

Some flameproof joint (flamepath) have dimensions that are more onerous than the values given in Table 1 of IEC 60079-1:2007. Refer to the certified drawings for details.

### Electrical Ratings/Parameters

Up to 1100V / 60A

### Specific Conditions of Use:

Nil

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### Register of Issues and Variations

includes the current issue

#### Issue 0 dated 2023-03-15

##### Standards relevant for this issue:

##### AS/NZS 1299:2009

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. &amp; Issuing CBs: REP22110-02 : ExTC

QAR No. &amp; Issuing CB: AU/TSA/QAR11.0009/08 : Testsafe Australia

File Reference: ExTC Job : 22110

##### Manufacturer's Documents/Drawings associated with this issue:

Document/Drawing Title	Document/Drawing Number	Pages / Sheets	Revision	Date
60A MOUNTING BRACKET	F-890	1	A	2023-01-31
60A 660/1100V RESTRAINED PLUG	F-891	1	A	2023-02-06
60A 660/1100V RESTRAINED RECEPTACLE	F-892	1	A	2023-02-06
60A 660/1100V RESTRAINED DUMMY PLUG	F-893	1	A	2023-02-06
60A 660/1100V RESTRAINED PLUG WITH INTEGRAL GLAND	F-894	1	A	2023-02-06
60A 660/1100V RESTRAINED BACK / BACK RECEPTACLE	F-895	1	A	2023-02-06
60A 660/1100V RESTRAINED PHASE CONDITION INDICATOR	F-896	1	A	2023-02-06
60A GLAND ADAPTOR	F-897	1	A	2023-02-06
Termination and Maintenance Instructions for 60 AMP 660/1100 Volt Restrained Range	TRP-4	3	D	2023-03-15

#### Issue 1 dated 2023-09-18

##### Variations Permitted by this Issue:

- Change of Applicant and Manufacturer location to new facility.

##### Standards relevant for this issue:

##### AS/NZS 1299:2009

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Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs:	No change from previous issue of the certificate
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 this certificate.