

# Certificate of Conformity

## Ex EQUIPMENT

Certificate No.: **ANZEx 22.4181**

Current Issue: 1

Date of Issue: 2023-09-18

**Applicant:** **CMI Electrical Products**Unit F3  
29 Birnie Avenue  
Lidcombe, NSW 2141,  
Australia**Equipment:** CMI 300-425A 660V/1100V/3300V Restrained Range of Cable Coupling Devices**Type of Explosion Protection:** Flameproof 'd'**Explosion Protection Marking:** Ex db I Mb  
IP66/68 2 metres 30 minutes  
IP66 for Dummy Plug

*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**

Unit F3  
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  
(Incorporating  
Amendment No. 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.

*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 300/425A series comprises Restrained Plugs, Dummy Plugs, Phase Condition Indicator Plugs, Back-to-Back Receptacles, Restrained Receptacles and Restrained Receptacles with cable gland and bracket. The restrained receptacle range is used to monitor and supply power reticulation systems and mobile equipment such as Shuttle car, Continuous miner, Longwalls, Drill rigs in mines.

The restrained receptacle, restrained receptacle with cable gland and bracket, and back-to back receptacle are provided with a jacking screw or quick release locking mechanism. The equipment is manufactured by CMI Electrical Products, who is 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 or three pilot circuit socket/sockets, and a receptacle with corresponding phase and pilot pin/pins. Two plugs may be coupled together by means of a restrained coupling device referred to as restrained back-to-back receptacle. 300/425A Range covers: 660V, 1100V and 3300V all with 3-pins plus 1 pilot pin or 3 pilot pins. The range uses a late make early break pilot connection for safety and has an earthed phase barrier.

The coupler range has an protection rating of IP66/68 (2m for 30 minutes) for every item except for the dummy plug which has a protection rating of IP66 only.

The equipment may incorporate the F-4617 / F3370 Series of threaded and spigot adaptors certified under IECEx TSA 13.0009U. The use of this adaptor allows for separately certified cable glands to be assembled with the receptacle including the glands included in the component certificate.

The special fasteners and/or nuts used to assemble the plugs, receptacles and Ex d enclosure shall be of minimum grade 4.6 (yield stress 240 MPa).

When the receptacle is mounted to Ex d enclosure, the flanged joint between the enclosure and receptacle must be in accordance with instruction number TRP-2 to maintain the flameproof integrity of the assembly.

Catalogue Number	Description
AF3#4&@*	300A 660/1100V Restrained Plug
AF3#4S	300A 660/1100V Restrained Plug with Integral Gland
AF3#6&@*	300A 1100/3300V 6P Restrained Plug
AF334%@*	300A 3300V Restrained Plug
AF4#4&@*	425A 660/1100V Restrained Plug
AF4#6%@*	425A 1100/3300V 6P Restrained Plug
AF434%@*	425A 3300V Restrained Plug
AG3#4B	300A 660/1100/3300V Restrained Receptacle
AG3#4BQR	300A 660/1100/3300V Q/R Restrained Receptacle

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AG3#6B	300A 1100/3300V 6P Restrained Receptacle
AG3#6BQR	300A 1100/3300V Q/R 6P Restrained Receptacle
AG334B	300A 3300V Restrained Receptacle
AG334BQR	300A 3300V Q/R Restrained Receptacle
AG4#4B	425A 660/1100V Restrained Receptacle
AG4#4BQR	425A 660/1100V Q/R Restrained Receptacle
AG4#6BQR	425A 1100/3300V Q/R 6P Restrained Receptacle
AG434BQR	425A 3300V Q/R Restrained Receptacle
AH3#4B	300A 660/1100V Restrained Back to Back Receptacle
AH3#4BQR	300A 660/1100V Q/R Restrained Back to Back Receptacle
AH3#6B	300A 1100/3300V 6P Restrained Back to Back Receptacle
AH3#6BQR	300A 1100/3300V Q/R 6P Restrained Back to Back Receptacle
AH334B	300A 3300V Restrained Back to Back Receptacle
AH334BQR	300A 3300V Q/R Restrained Back to Back Receptacle
AH4#4B	425A 660/1100V Restrained Back to Back Receptacle
AH4#4BQR	425A 660/1100V Q/R Restrained Back to Back Receptacle
AH4#6BQR	425A 1100/3300V Q/R 6P Restrained Back to Back Receptacle
AH434BQR	425A 3300V Q/R Restrained Back to Back Receptacle
AR3#1R@	300A 660/1100V Restrained Dummy Plug
AR3#6R@	300A 1100V/3300 6P Restrained Dummy Plug
AR331S@	300A 3300V Restrained Dummy Plug
AR4#1R@	425A 660/1100V Restrained Dummy Plug
AR4#6R@	425A 1100V/3300 6P Restrained Dummy Plug
AR431S@	425A 3300V Restrained Dummy Plug

## Marking:

1. # Volts: 6=660V, 1=1100V, 3=3300V
2. % Interior: S = Solid DMC, T = Teflon/Stainless
3. & Interior R = Rubber, T = Teflon/Stainless
4. @ Nose Cone: S=ST. Steel, Blank=Bronze.
5. \* Gland: 3=Small, 4=large

## Electrical Ratings/Parameters

300/425A, 660/1100/3300V

## Specific Conditions of Use:

Nil

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## Ex EQUIPMENT

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Current Issue: 1

Date of Issue: 2023-09-18

### Register of Issues and Variations

includes the current issue

#### Issue 0 dated 2023-05-02

#### Standards relevant for this issue:

**AS/NZS 1299: 2009**  
(Incorporating  
Amendment No. 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: REP22111-02 : ExTC

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

File Reference: ExTC Job : 22111

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

Document/Drawing Title	Document/Drawing Number	Pages / Sheets	Revision	Date
300/425A Angle Mounting Bracket	F-910	1	A	2023-02-07
300A 660/1100V Restrained Plug	F-911	1	A	2023-03-06
300A 660/1100V Restrained Dummy Plug	F-913	1	A	2023-02-07
300A 3300V Restrained Plug	F-914	1	A	2023-03-06
300A 3300V Restrained Receptacle	F-915	1	A	2023-03-06
300A 660/1100V Restrained B/B Receptacle	F-918	1	A	2023-02-07
300A 3300V Restrained Dummy Plug	F-919	1	A	2023-02-07
425A 660/1100V Restrained Plug	F-920	1	A	2023-03-06
425A 660/1100V Restrained Receptacle	F-921	1	A	2023-03-06
425A 660/1100V Restrained Dummy Plug	F-922	1	A	2023-02-07
300A 3300V Restrained B/B Receptacle	F-924	1	A	2023-02-07
425A 660/1100V Restrained B/B Receptacle	F-925	1	A	2023-02-07
300A 660/1100V Restrained Receptacle	F-926	1	A	2023-03-06
300A 1100/3300V 6P Restrained Receptacle	F-927	1	A	2023-03-06
300A 1100/3300V 6P Restrained B/B Receptacle	F-928	1	A	2023-02-07
300A 1100/3300V 6P Restrained Plug	F-929	1	A	2023-03-06
300A 1100/3300V 6P Restrained Dummy Plug	F-931	1	A	2023-02-07
300A 660/1100V Q/R Restrained Receptacle	F-932	1	A	2023-03-06
300A 3300V Q/R Restrained Receptacle	F-933	1	A	2023-03-06

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300A 1100/3300V 6P Q/R Restrained Receptacle	F-934	1	A	2023-03-06	
425A 660/1100V Q/R Restrained Receptacle	F-935	1	A	2023-03-06	
300A 660/1100V Q/R Restrained B/B Receptacle	F-936	1	A	2023-02-07	
425A 660/1100V Q/R Restrained B/B Receptacle	F-937	1	A	2023-02-07	
300A 3300V Q/R Restrained B/B Receptacle	F-938	1	A	2023-02-07	
300A 1100/3300V Q/R 6P Restrained B/B Receptacle	F-939	1	A	2023-02-07	
425A 1100/3300V 6P Q/R Restrained Receptacle	F-940	1	A	2023-03-06	
425A 1100/3300V 6P Q/R Restrained Plug	F-941	1	A	2023-03-06	
425A 1100/3300V 6P Q/R Restrained B/B Receptacle	F-942	1	A	2023-02-07	
425A 1100/3300V 6P Restrained Dummy Plug	F-943	1	A	2023-02-07	
425A 3300V Q/R Restrained Receptacle	F-944	1	A	2023-03-06	
425A 3300V Restrained Plug	F-945	1	A	2023-03-06	
Main Phase / Pilot Thimbles Restrained Product Range	F-946	1	A	2023-02-07	
425A 3300V Q/R Restrained B/B Receptacle	F-947	1	A	2023-02-07	
425A 3300V Restrained Dummy Plug	F-949	1	A	2023-02-07	
300A 660/110V RESTRAINED PLUG ST. STEEL PTFE INTERIOR	F-951	1	A	2023-03-06	
300A 3300V RESTRAINED PLUG ST. STEEL PTFE INTERIOR	F-952	1	A	2023-03-06	
300A 1100/3300V 6P RESTRAINED PLUG ST. STEEL PTFE INTERIOR	F-953	1	A	2023-03-06	
425A 660/1100V RESTRAINED PLUG ST. STEEL PTFE INTERIOR	F-954	1	A	2023-03-06	
425A 330V RESTRAINED PLUG ST. STEEL/PTFE INTERIOR	F-955	1	A	2023-03-06	
425A 1100/3300V 6P RESTRAINED PLUG ST. STEEL/PTFE INTERIOR	F-956	1	A	2023-03-06	
Instructions for 300/425 AMP 660/1100/3300 VOLT Restrained Range	TRP-2	4	J	2023-03-31	

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**Issue 1 dated 2023-09-18**Variations Permitted by this Issue:

- Change of Applicant and Manufacturing location to new facility

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. & 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 issue 0 of the certificate.