

Certificate of Conformity

Ex EQUIPMENT

Certificate No.:	ANZEx 20.4170X	Current Issue:	1	Date of Issue:	2023-09-18
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Applicant: **CMI Electrical Products**
Unit F3
29 Birnie Avenue
Lidcombe NSW 2141
Australia


Equipment: 125A 660V / 1100V Restrained Range of Plug and Receptacles

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

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

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 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/NZS1299:2009 Electrical equipment for mines and quarries – Explosion-protected three-phase restrained plugs and receptacles for working voltages up to and including 3.3 kV
(Incorporating Amendment No.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 125A 660V / 1100V series is comprised of a Restrained Plug and Restrained Receptacle manufactured from either stainless steel 304 grade or high tensile brass type C86500. This range is intended to supply power to underground mobile equipment in mines such as Shuttle cars. It is specifically designed to connect a trailing supply cable to the cable reels on the mine equipment. The restrained receptacle is provided with a jacking screw locking mechanism. The equipment is manufactured by CMI Electrical Products, which are also known as Minto Industrial Products (M.I.P).

When the receptacle and plug are mated together the parts create a flameproof enclosure, which has three power conducting (phase) sockets and one pilot circuit socket, and a receptacle with corresponding phase pins and pilot pin. The equipment is intended for and may only be used in restricted earth fault AC power supply circuits. The range includes: 660V and 1100V plugs and 1100V left and right hand receptacles. The range uses a late make early break pilot connection for safety and has an earthed phase barrier in the plug. The receptacle utilises a complete metal interior with Teflon insulators.

When the receptacle is mounted to an Ex d separately certified cable reel, the spigot, which is held in place internally by a keeper plate, forms a flameproof joint between the enclosure and receptacle and must be installed in accordance with the instructions for both products.

The range also includes a 125 Amp 1100V stainless steel back to back restrained receptacle which is used to connect two plugs inline. The back to back receptacle has the same electrical pin arrangement, restraining mechanism and flamepaths on both ends, as the 125 Amp 1100V cable reel receptacle.

The electrical equipment has been designed to AS/NZS 1299:2009 (incorporating amendment No.1) and has been tested for Short Circuit Impulse Withstand and HV tests at a current rating of 125A as per AS/NZS 1299:2009 (incorporating amendment No.1). This equipment has also been certified as flameproof equipment under IECEx TRA 16.0015X for a rating of 150A.



Typical assemblies.

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Electrical Ratings/Parameters

125A 660V / 1100V

Specific Conditions of Use:

1. Some flarepaths are different from the standard and must be considered during maintenance / repair using the information supplied by the manufacturer.

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Date of Issue: 2023-09-18

History of Issues and Variations

includes the current issue

Issue 0 dated 2020-03-09

Standards relevant for this issue:

AS/NZS1299:2009 Electrical equipment for mines and quarries – Explosion-protected three-phase restrained plugs and receptacles for working voltages up to and including 3.3 kV
(Incorporating Amendment No.1)

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: AU/TRA/ExTR16.0020/00 (TUVRA)
AU/TRA/ExTR17.0007/00 (TUVRA)
AU/EXTC/ExTR17.0008/00 (ExTC)
AU/ExTC/ExTR20.00003/00 (ExTC)
35976 Testsafe

QAR No. & Issuing CB: AU/TSA/QAR11.0009/06

File Reference: Job 19144

Manufacturer's Documents associated with Issue 0:

Document Title	Document Number	Pages / Sheets	Revision	Date
125A 660/1100V CABLE REEL PLUG	F-198	1	L	2020-02-28
125A 1100V CABLE REEL RECEPTACLE RIGHT HAND	F-848	1	F	2020-02-28
125A 1100V CABLE REEL RECEPTACLE LEFT HAND	F-848-1	1	F	2020-02-28
125A 1100V BACK TO BACK SS RECEPTACLE	F-850	1	E	2020-02-28
Instructions for 125A Cable Reel Plug, Receptacle And Back To Back Receptacle Inst. Rest 125A - 1	Inst. Rest 125A – 1	4	E	2020-02-28

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Register of Issues and Variations

includes the current issue

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/NZS1299:2009
(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:	No change from previous issue of the certificate
QAR No. & Issuing CB:	AU/TSA/QAR11.0009/09
File Reference:	Job 23028

Manufacturer's Documents/Drawings associated with this issue:

No changes to drawings from previous issue of the certificate.