



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 22.0037X	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2023-05-02)
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		
Optional accessory:			
Type of Protection:	Flameproof 'd'		
Marking:	Ex db I Mb		

Approved for issue on behalf of the IECEx
Certification Body:

David Price

Position:

Certification Authority

Signature:
(for printed version)

Date:
(for printed version)

2023-09-18

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**
Unit F3
29 Birnie Avenue
Lidcombe 2141
Australia

Manufacturing
locations: **CMI Electrical Products**
Unit F3
29 Birnie Avenue
Lidcombe 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 7.0

[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/ExTR22.0058/00](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The 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 receptable range is used to monitor and supply power reticulation systems and mobile equipment such as Shuttle car, Continuous miner, Longwalls, Drill rigs in mines.

Refer to the Annex for more details

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for details



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Refer to Annex for details



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Additional information:

ExTC Job : 23028

Annex:

[IECEx ExTC 22.0037X-1 Certificate Annex Final.pdf](#)

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Description (Continued from certificate):

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 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
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

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Annex





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Catalogue Number	Description
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

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Specific Conditions of Use pertaining to Issue 0 of this Certificate:

1. Some flameproof joints are more onerous than the dimensions in IEC 60079-1 Table 2. Refer to the manufacturer drawings for details.
2. The special fasteners used to assemble the plug and gland shall be minimum grade 4.6 (yield stress 240MPa) or for stainless steel minimum grade A*-70 (Yield stress 450MPa).

Drawing list pertaining to Issue 0 of this Certificate:

<u>Manufacturer's Documents</u>				
Title:	Drawing No.:	Pages	Rev. Level:	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	2023-03-07
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

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Title:	Drawing No.:	Pages	Rev. Level:	Date:
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
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

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Title:	Drawing No.:	Pages	Rev. Level:	Date:
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

Variations permitted by Issue 1 of this certificate:

Change of Applicant and Manufacturer location to new facility.

Specific Conditions of Use pertaining to Issue 1 of this Certificate:

No changes to the conditions from Issue 0 of the certificate.

Drawings Associated with the Issue 1 of this Certificate:

No changes to drawings from Issue 0 of the certificate of the certificate.