



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 TSA 13.0005X	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 7	Issue 6 (2022-06-30)
Date of Issue:	2023-09-22		Issue 5 (2020-11-17)
Applicant:	CMI Electrical Products Unit F3, 3 - 29 Birnie Avenue Lidcombe 2141 Australia		Issue 4 (2019-01-24)
Equipment:	Range of 300/425 Amp 3300/1100/660 V Restrained Plugs, Dummy Plugs, Phase Condition Indicator Plugs, Back to Back Receptacles, Restrained Receptacles and Restrained Receptacles with cable gland and bracket		Issue 3 (2018-10-15)
Optional accessory:			Issue 2 (2017-11-28)
Type of Protection:	Flameproof "d"		Issue 1 (2016-11-14)
Marking:	Ex d I Mb IP66 / IP68*		Issue 0 (2014-03-05)

* Refer to the Annexe Table 1

Approved for issue on behalf of the IECEx
Certification Body:

Debbie Wouters

Position:

Acting Quality & Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

22nd September 2023

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.
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TestSafe Australia
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Londonderry NSW 2753
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IECEx Certificate of Conformity

Certificate No.: **IECEx TSA 13.0005X**

Page 2 of 5

Date of issue: 2023-09-22

Issue No: 7

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

Manufacturing
locations:

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 60079-1:2007](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

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 Reports:

[AU/TSA/ExTR12.0025/00](#)
[AU/TSA/ExTR12.0025/03](#)
[AU/TSA/ExTR12.0025/06](#)

[AU/TSA/ExTR12.0025/01](#)
[AU/TSA/ExTR12.0025/04](#)

[AU/TSA/ExTR12.0025/02](#)
[AU/TSA/ExTR12.0025/05](#)

Quality Assessment Report:

[AU/TSA/QAR11.0009/08](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx TSA 13.0005X**

Page 3 of 5

Date of issue: 2023-09-22

Issue No: 7

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The 300/425 A series comprises Restrained Plugs, Dummy Plugs, Phase Condition Indicator Plugs, Back-to-Back Receptacles, Restrained Receptacles and Restrained Receptacles with cable gland and bracket, as designated in Table 1. The restrained receptacle, restrained receptacle that with integral cable gland and bracket, and back-to-back receptacle are provided with a jacking screw. The equipment is manufactured by CMI Electrical Products, who is also known under the name Minto Industrial Products (M.I.P).

Refer to attached Annexe for more details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Some flameproof joints have dimensions that are different than the values given in Table 1 of IEC 60079-1. Refer to the manufacturer's drawings for details.
2. The width of flamepath flange joint between the receptacle and the Ex d Enclosure shall be with flamepath minimum width $L = 12.5$ mm and maximum gap $i = 0.4$ mm. Refer to the manufacturer's drawings for details.



IECEX Certificate of Conformity

Certificate No.: **IECEX TSA 13.0005X**

Page 4 of 5

Date of issue: 2023-09-22

Issue No: 7

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variations Permitted by Issue 7:

Applicant and Manufacturer address has been relocated to Unit F3, 3 - 29 Birnie Avenue, Lidcombe NSW 2141 Australia, previously 18-20 Railway Road, Meadowbank NSW 2114 Australia.



IECEx Certificate of Conformity

Certificate No.: **IECEx TSA 13.0005X**

Page 5 of 5

Date of issue: 2023-09-22

Issue No: 7

Additional information:

Routine tests:

None for listed standards.

Annex:

[Annexe_IECEx TSA 13.0005X-7.pdf](#)



IECEx Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEx TSA 13.0005X	Issue No.:	7
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Equipment description continue

The complete assembly consists of a plug, which has three power conducting (phase) sockets and one or three pilot circuit socket(s), and a receptacle with corresponding phase and pilot pin/s. Two plugs may be coupled together by means of a restrained coupling device referred to as restrained back-to-back receptacle. 300/425 Amp Range covers: 660 V, 1100 V and 3300 V all with 3-pins plus 1 or 3 pilot pin/s.

The range uses a late make early break pilot connection for safety and has an earthed phase barrier.

The Gland Adaptor Type F-3370 RGB may be used and it has a plain entry to accommodate spigot joint type cable gland. CMI certified cable gland No. 2 to No.5 (certificate IECEx TSA 13.0009U - IEC 60079-0:2011 & IEC 60079-1:2007) can be utilized.

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 enclosure and receptacle must be in accordance with Instruction number TRP-2 to maintain the flameproof integrity of the assembly.

The equipment passed the test for degree of protection IP66/IP68 in accordance with the requirements of IEC 60529:2004.

Table 1: Summary of Certified Equipment - Part Number List

Part Number	Description
AF3#4R@*	300A 660/1100V Restrained Plug
AT3#4R@	300A 660/1100V Restrained Phase Condition Indicator
AR3#1R@	300A 660/1100V Restrained Dummy Plug
AF334S@*	300A 3300V Restrained Plug
AG334B	300A 3300V Restrained Receptacle
AF3#4S	300A 660/1100V Restrained Plug with Integral Gland
AT334S@	300A 3300V Restrained Phase Condition Indicator
AH3#4B	300A 660/1100V Restrained Back to Back Receptacle
AR331S@	300A 3300V Restrained Dummy Plug
AF4#4R@*	425A 660/1100V Restrained Plug
AG4#4B	425A 660/1100V Restrained Receptacle
AR4#1R@	425A 660/1100V Restrained Dummy Plug
AT4#4R@	425A 660/1100V Restrained Phase Condition Indicator
AH334B	300A 3300V Restrained Back to Back Receptacle
AH4#4B	425A 660/1100V Restrained Back to Back Receptacle
AG3#4B	300A 660/1100/3300V Restrained Receptacle
AG3#6B	300A 1100/3300V 6P Restrained Receptacle
AH3#6B	300A 1100/3300V 6P Restrained Back to Back Receptacle

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IECEx Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEx TSA 13.0005X	Issue No.:	7
------------------------------------	--------------------	-------------------	---

Part Number	Description
AF3#6R@*	300A 1100/3300V 6P Restrained Plug
AT3#6R@	300A 1100/3300V 6P Restrained Phase Condition Indicator
AR3#6R@	300A 1100V/3300 6P Restrained Dummy Plug
AG3#4BQR	300A 660/1100/3300V Q/R Restrained Receptacle
AG334BQR	300A 3300V Q/R Restrained Receptacle
AG3#6BQR	300A 1100/3300V Q/R 6P Restrained Receptacle
AG4#4BQR	425A 660/1100V Q/R Restrained Receptacle
AH3#4BQR	300A 660/1100V Q/R Restrained Back to Back Receptacle
AH4#4BQR	425A 660/1100V Q/R Restrained Back to Back Receptacle
AH334BQR	300A 3300V Q/R Restrained Back to Back Receptacle
AH3#6BQR	300A 1100/3300V Q/R 6P Restrained Back to Back Receptacle
AG4#6BQR	425A 1100/3300V Q/R 6P Restrained Receptacle
AF4#6R@*	425A 1100/3300V 6P Restrained Plug
AH4#6BQR	425A 1100/3300V Q/R 6P Restrained Back to Back Receptacle
AR4#6R@	425A 1100V/3300 6P Restrained Dummy Plug
AG434BQR	425A 3300V Q/R Restrained Receptacle
AF434S@*	425A 3300V Restrained Plug
AH434BQR	425A 3300V Q/R Restrained Back to Back Receptacle
AT434S@	425A 3300V Restrained Phase Condition Indicator
AR431S@	425A 3300V Restrained Dummy Plug
AT4#6R@	425A 1100/3300V 6P Restrained Phase Condition Indicator
PAC3	No. 3 Armoured Gland Assembly
PAC4	No. 4 Armoured Gland Assembly
AV3	300/425A Angle Mounting Bracket

Note:

Marking:

1. # Volts: 6=660V, 1=1100V, 3=3300V.
2. @ Nose Cone: S=ST. Steel, Blank=Bronze.
3. * Gland: 3=Small, 4=large.

IP rating for the restrained receptacle when coupled with plug:

- IP66/IP68 (2 metres for 30 minutes) for: Restrained Plug, Back to Back Receptacle, Restrained Receptacle, Gland Adaptor and Restrained plug with Integral Gland.
- IP66 only: Dummy Plug and Phase Condition Indicator Plug.

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Annexe for Certificate No.:	IECEx TSA 13.0005X	Issue No.:	7
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Drawing list pertaining to Issue 7 of this Certificate:

Document / Drawing No.	Sheets	Document Title	Issue	Date (yyyy/mm/dd)
AV3	1	300/425A Angle Mounting Bracket	C	2017-10-30
F-047	1	300A 660/1100V Restrained Plug	F	2020-08-17
F-183	1	300A 660/1100V Restrained Phase Condition Indicator	F	2016-09-21
F-184	1	300A 660/1100V Restrained Dummy Plug	G	2017-10-26
F-244	1	300A 3.3KV Restrained Plug	P	2020-08-17
F-265	1	*300A 3.3KV Restrained Receptacle	Q	2022-06-23
F-272	1	300A 660/1100V Restrained Plug with Integral Gland	J	2018-07-31
F-273	1	300A 3.3KV Restrained Phase Condition Indicator	D	2016-09-21
F-275	1	300A 660/1100V Restrained B/B Receptacle	M	2020-08-17
F-290	1	300A 3300V Restrained Dummy Plug	F	2017-10-26
F-298	1	425A 660/1100V Restrained Plug	H	2020-08-17
F-299	1	*425A 660/1100V Restrained Receptacle	P	2022-06-23
F-305	1	425A 660/1100V Restrained Dummy Plug	F	2017-10-26
F-306	1	425A 660/1100V Restrained Phase Condition Indicator	E	2016-09-21
F-307	1	300A 3300V Restrained B/B Receptacle	L	2020-08-17
F-346	1	425A 660/1100V Restrained B/B Receptacle	L	2020-08-17
F-367	1	*300A 660/1100V Restrained Receptacle	M	2022-06-23
F-398	1	*300A 1100/3300V 6P Restrained Receptacle	M	2022-06-23
F-399	1	300A 1100/3300V 6P Restrained B/B Receptacle	J	2020-08-17
F-400	1	300A 1100/3300V 6P Restrained Plug	E	2018-09-10
F-423	1	300A 1100/3300V 6P Restrained Phase Cond. Indicator	D	2018-09-10
F-425	1	300A 1100/3300V 6P Restrained Dummy Plug	F	2018-09-10
F-438	1	*300A 660/1100V Q/R Restrained Receptacle	N	2022-06-23
F-441	1	*300A 3.3KV Q/R Restrained Receptacle	N	2022-06-23
F-445	1	*300A 1100/3300V 6P Q/R Restrained Receptacle	N	2022-06-23
F-447	1	*425A 660/1100V Q/R Restrained Receptacle	M	2022-06-23
F-461	1	300A 660/1100V Q/R Restrained B/B Receptacle	K	2020-08-17

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IECEx Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEx TSA 13.0005X	Issue No.:	7
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Document / Drawing No.	Sheets	Document Title	Issue	Date (yyyy/mm/dd)
F-474	1	425A 660/1100V Q/R Restrained B/B Receptacle	K	2020-08-17
F-475	1	300A 3300V Q/R Restrained B/B Receptacle	J	2020-08-17
F-476	1	300A 1100/3300V Q/R 6P Restrained B/B Receptacle	J	2020-08-17
F-503	1	*425A 1.1/3.3KV 6P Q/R Restrained Receptacle	K	2022-06-23
F-504	1	425A 1100/3300V 6P Restrained Plug	E	2018-09-10
F-505	1	425A 1100/3300V 6P Q/R Restrained B/B Receptacle	E	2020-08-17
F-506	1	425A 1100/3300V 6P Restrained Dummy Plug	E	2018-09-10
F-533	1	*425A 3.3KV Q/R Restrained Receptacle	J	2022-06-23
F-534	1	425A 3.3KV Restrained Plug	F	2017-10-26
F-534-1	1	Main Phase / Pilot Thimbles Restrained Product Range	A	2016-09-21
F-535	1	425A 3300V Q/R Restrained B/B Receptacle	E	2020-08-17
F-558	1	425A 3300V Restrained Phase Condition Indicator	F	2016-09-21
F-559	1	425A 3300V Restrained Dummy Plug	E	2017-10-26
F-560	1	425A 1100/3300V 6P Restrained Phase Cond. Indicator	C	2018-09-10
PAC3	1	No. 3 Armoured Gland Assembly	A	2016-09-21
PAC4	1	No. 4 Armoured Gland Assembly	A	2016-09-21

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

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