



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx TSA 10.0007X issue No.:3

Status: **Current**

Date of Issue: **2013-07-26**

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**Certificate history:**

Issue No. 3 (2013-7-26)  
Issue No. 2 (2013-3-21)  
Issue No. 1 (2012-8-1)  
Issue No. 0 (2010-10-14)

Applicant: **Regal Beloit Australia Pty Ltd**  
19 Corporate Drive  
Rowville  
VICTORIA  
**Australia**

Electrical Apparatus: **Range of HPD Flameproof Induction Motors Frame Size 80 to 315**  
Optional accessory:

Type of Protection: **Ex d**

Marking: CMG Flameproof 3 Phase Induction motor  
Ex d I Mb, Ex d IIB T4\* Gb IP66 (\*T5 optional)  
Frame Size  
Serial No  
IECEx TSA 10.0007X


Approved for issue on behalf of the IECEx  
Certification Body:

Debbie Wouters

Position:

Acting Quality & Certification Manager

Signature:  
(for printed version)

  
26 JULY 2013

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**TestSafe Australia**  
919 Londonderry Road  
Londonderry NSW 2753  
**Australia**





# IECEx Certificate of Conformity

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Manufacturer: **Regal Beloit Australia Pty Ltd**  
19 Corporate Drive  
Rowville  
VICTORIA  
**Australia**

Additional Manufacturing location(s):

**CMG Electric Motors  
Asia Pacific Pte Ltd**  
12 Tuas Loop  
Singapore 637346  
Singapore

**CMG Electric Motors NZ  
Ltd**  
18 Jomac Place  
Avondale, Auckland 1026  
New Zealand

**Regal Beloit Australia  
Pty Ltd**  
21 Colin Jamieson Drive  
Welshpool WA 6106  
Australia

**Regal Beloit Austra Pty  
Ltd**  
7 Mahogany Court  
Willawong QLD 4110  
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 electrical apparatus 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:

|  |   |
|--|---|
| <b>IEC 60079-0 : 2004</b><br>Edition: 4.0  | Electrical apparatus for explosive gas atmospheres - Part 0: General requirements |
| <b>IEC 60079-1 : 2007-04</b><br>Edition: 6 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |

*This Certificate **does not** indicate compliance with electrical 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/TSA/ExTR10.0014/00

AU/TSA/ExTR10.0014/01

### Quality Assessment Report:

AU/TSA/QAR06.0012/04

AU/TSA/QAR07.0008/05

AU/TSA/QAR07.0009/03



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The range of HPD Flameproof (squirrel cage) high efficiency Induction Motors is manufactured from cast iron and comprises a main body (motor enclosure) with a separate bolt-on terminal box. The motors are designed to operate on 3 phase, 100 V to 1100 V, 40, 50 or 60 Hz and also from a VVVF drive. Motors may be supplied with anti-condensation heaters, RTD'S, thermocouples and thermistors as options. Motors are available as foot mounted, flange mounted or foot and flange mounted. See Annexe for certificate IECEx TSA 10.0007X for a detailed description of the motors.

### CONDITIONS OF CERTIFICATION: YES as shown below:

See Annexe for certificate IECEx TSA 10.0007X for conditions of certification.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 3 released for change of name of Manufacturer. For details refer to Annexe.



# IECEx Certificate of Conformity Annexe

|                                    |                           |                   |          |
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| <b>Annexe for Certificate No.:</b> | <b>IECEx TSA 10.0007X</b> | <b>Issue No.:</b> | <b>3</b> |
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## Equipment:

The range of HPD Flameproof (squirrel cage) high efficiency Induction Motors is manufactured from cast iron and comprises a main body (motor enclosure) with a separate bolt-on terminal box. The motors are designed to operate on 3 phase, 100 V to 1100 V, 40, 50 or 60 Hz and also from a VVVF drive. Motors may be supplied with anti-condensation heaters, RTD'S, thermocouples and thermistors as options. Motors are available as foot mounted, flange mounted or foot and flange mounted. An O-ring seal on the cover of the terminal box gives the motors an IP rating of IP66 against the ingress of dust and moisture. Electrical connection is via two threaded entries in the terminal box wall. The special fasteners for the motors have a property class (yield stress) of either grade 4.8 or grade 8.8, as indicated on the respective GA drawings.

The motors and terminal boxes utilise the following flameproof joints. Cylindrical joints for the DE and NDE endshield spigots, the DE and NDE shaft glands, the terminal box cover and the motor terminal bushings. Flanged joints for the DE and NDE bearing holders (frames 160 to 315 only) and the terminal box connection with the motor. Motor terminal bushings are provided for connection of the motor to the supply and also to the motors windings. The bushings form threaded joints with the motor.

The full range of HPD motors is shown in the schedule, below.

## Schedule:

**Table 1 – HPD Range of Induction Motors**

| Table 1 – HPD Range of Induction Motors |            |       |   |              |         |            |       |   |              |
|---|------------|-------|---|--------------|---------|------------|-------|---|--------------|
| Frame                                   | Power (kW) | Poles | Free Internal Volume (cm <sup>3</sup> ) |              | Frame   | Power (kW) | Poles | Free Internal Volume (cm <sup>3</sup> ) |              |
|   |            |       | Motor                                   | Terminal Box |         |            |       | Motor                                   | Terminal Box |
| HPD80                                   | 0.75       | 2     | 1155                                    | 1550         | HPD200L | 30         | 2     | 13982                                   | 4225         |
|   | 1.1        | 2     | 956                                     |              |         | 37         | 2     | 12841                                   |              |
|   | 0.55       | 4     | 1168                                    |              |         | 30         | 4     | 11602                                   |              |
|   | 0.75       | 4     | 969                                     |              |         | 18.5       | 6     | 14261                                   |              |
|   | 0.37       | 6     | 1447                                    |              |         | 22         | 6     | 13520                                   |              |
|   | 0.55       | 6     | 1248                                    |              |         | 15         | 8     | 13503                                   |              |
| HPD90S                                  | 1.5        | 2     | 1234                                    |              | HPD225M | 45         | 2     | 14500                                   |              |
|   | 1.1        | 4     | 1115                                    |              |         | 45         | 4     | 14400                                   |              |
|   | 0.75       | 6     | 1324                                    |              |         | 30         | 6     | 18500                                   |              |
| HPD90L                                  | 2.2        | 2     | 1309                                    |              |         | 22         | 8     | 19900                                   |              |
|   | 1.5        | 4     | 1115                                    |              | HPD225S | 37         | 4     | 15500                                   |              |
|   | 1.1        | 6     | 1175                                    |              |         | 18.5       | 8     | 20600                                   |              |
| HPD100L                                 | 3          | 2     | 2083                                    |              | HPD250M | 55         | 2     | 30100                                   | 6885         |
|   | 2.2        | 4     | 2104                                    |              |         | 55         | 4     | 21132                                   |              |
|   | 3          | 4     | 1699                                    |              |         | 37         | 6     | 27700                                   |              |
|   | 1.5        | 6     | 2209                                    |              |         | 30         | 8     | 28800                                   |              |
| HPD112M                                 | 4          | 2     | 2160                                    |              | HPD280S | 75         | 2     | 37268                                   |              |
|   | 4          | 4     | 1800                                    |              |         | 75         | 4     | 32182                                   |              |
|   | 2.2        | 6     | 2109                                    |              |         | 45         | 6     | 43423                                   |              |
| HPD132S                                 | 5.5        | 2     | 3761                                    | HPD280M      |         | 37         | 8     | 43546                                   |              |
|   | 7.5        | 2     | 3761                                    |              | 90      | 2          | 39546 |   |              |
|   | 5.5        | 4     | 3708                                    |              | 90      | 4          | 33200 |   |              |
|   | 3          | 6     | 4427                                    |              | 55      | 6          | 44200 |   |              |
|   | 2.2        | 8     | 3761                                    |              | 45      | 8          | 45100 |   |              |

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# IECEx Certificate of Conformity Annexe

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| Frame   | Power (kW) | Poles | Free Internal Volume (cm <sup>3</sup> ) |              | Frame   | Power (kW) | Poles | Free Internal Volume (cm <sup>3</sup> ) |              |
|---------|------------|-------|---|--------------|---------|------------|-------|---|--------------|
|         |            |       | Motor                                   | Terminal Box |         |            |       | Motor                                   | Terminal Box |
| HPD132M | 7.5        | 4     | 3704                                    |              | HPD315S | 110        | 2     | 93457                                   | 18158        |
|         | 4          | 6     | 3254                                    |              |         | 110        | 4     | 93547                                   |              |
|         | 5.5        | 6     | 3154                                    |              |         | 75         | 6     | 93560                                   |              |
|         | 3          | 8     | 4415                                    |              |         | 55         | 8     | 93560                                   |              |
| HPD160M | 11         | 2     | 8304                                    |              | HPD315M | 132        | 2     | 93457                                   |              |
|         | 15         | 2     | 5208                                    |              |         | 132        | 4     | 94325                                   |              |
|         | 11         | 4     | 6077                                    |              |         | 90         | 6     | 91060                                   |              |
|         | 7.5        | 6     | 8569                                    |              |         | 75         | 8     | 92060                                   |              |
|         | 4          | 8     | 10400                                   |              | HPD315L | 160        | 2     | 108317                                  |              |
| HPD160L | 5.5        | 8     | 9300                                    |              |         | 185        | 2     | 93547                                   |              |
|         | 18.5       | 2     | 7500                                    |              |         | 200        | 2     | 93547                                   |              |
|         | 15         | 4     | 6208                                    |              |         | 160        | 4     | 108317                                  |              |
|         | 11         | 6     | 6677                                    |              |         | 185        | 4     | 94142                                   |              |
| HPD180M | 7.5        | 8     | 8900                                    |              |         | 200        | 4     | 92347                                   |              |
|         | 22         | 2     | 6540                                    |              |         | 110        | 6     | 108317                                  |              |
| HPD180L | 18.5       | 4     | 10400                                   |              |         | 132        | 6     | 91060                                   |              |
|         | 22         | 4     | 9700                                    |              |         | 90         | 8     | 101060                                  |              |
|         | 15         | 6     | 9419                                    |              |         | 110        | 8     | 91060                                   |              |
|         | 11         | 8     | 10279                                   |              |         |            |       |   |              |

Table 2 – Options for HPD Range of Induction Motors (Frames 080 to 315)

| Option No | Option Description  |
|-----------|---|
| 1         | Socket head cap screws Grades 8.8, 10.9 or 12.9 can replace all external bolts and/or screws.   |
| 2         | Anti-condensation heaters fitted in accordance with drawing HPD001.   |
| 3         | -   |
| 4         | -   |
| 5         | Winding RTD's – PT100 RTD's fitted into the motor windings. RTD's fitted in accordance with drawing HPD001.   |
| 6         | Stainless steel shaft. Magnetic grades of stainless steel only for 2 pole motors. Other poles can have magnetic or non-magnetic grades of stainless with minimum ultimate tensile strength (UTS) of 570 MPa.  |
| 7         | Alterations to shaft extension diameter and/or length. Shaft diameter shall comply with IEC 60072-1 Table 4 "Shaft extension keys and keyway dimensions. Greatest permissible torque on continuous duty for AC motors". Alternatively, shaft design shall meet requirements of AS 1403-2004: Design of Rotating Steel Shafts. |
| 8         | Alternative types of rolling element bearings (ie ball, roller, angular contact or four point contact). As per manufacturer's recommendation.   |
| 9         | Flange size and type changes external to motor enclosure.   |
| 10        | Operation on VVVF drives, with thermistor protection.   |

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| Option No | Option Description   |
|-----------|--|
| 11        | Forced ventilation by separately driven cooling fan – the main motor protected by thermistors. The motor driving the fan shall have the same protection as the main motor. The cooling unit shall be fitted as shown on drawing HPD004A and HPD004B. |
| 12        | Fan and fan cover design changes for noise reduction maintaining required clearances and airflow. New fan cover shall be of steel or stainless steel with same thickness or greater thickness than original fan cover with same fixing.              |
| 13        | Rain canopy for vertical mount (shaft down) motors. Rain canopy made out of steel or stainless steel (minimum thickness 1.5 mm).   |
| 14        | Sun shields for frames 160 and above, made from steel or stainless steel (minimum thickness 1.5 mm).   |
| 15        | Other supply voltages within 100 V to 1100 V – 40, 50, 60 Hz.  |
| 16        | Operation of motors with electronic soft starters. Electronic soft starters shall be disconnected from the circuit once the motor is started and supply to motor shall be direct from mains only.  |
| 17        | Supply terminals to suit Star-Delta starting with 6 supply leads.  |
| 18        | Lower kW output rating other than standard. Other rating data for lower kW output to be declared by test and/or calculation based on test for standard kW rating.  |
| 19        | Stainless steel (304 - 316 alloy) external fasteners in place of grade 4.8 (Class A2-70 or A4-70) bolts / screws for frames 132 and above.   |
| 20        | Alternative conduit entries as detailed in terminal box drawings.  |
| 21        | Up to 55 °C ambient temperatures as per procedure EP-GT012 to determine suitability.   |
| 22        | T5 Temperature Class with motor de-rated to 75% rating at 40 °C ambient, with trip protection at 100 °C and suitability confirmed by test.   |
| 23        | Class "H" insulation for windings.   |
| 24        | -  |
| 25        | Double shaft extension.  |

## Conditions of Certification pertaining to Issue 0 of this Certificate:

- It is a condition of manufacture that for all motor enclosures a 1.5 times over pressure test according to IEC 60079-1 Clause 16.1 shall be carried out using the reference pressures from IECEx test report AU/TSA/ExTR10.0014/00.  
The terminal boxes fitted to the HPD motors passed an overpressure test at 4 times the reference pressure and are exempt from routine pressure testing.
- It is a condition of specific use for any multi-speed motor or any motor operated from a VVVF drive that the thermal protection devices be connected into the motor control circuit in such a manner as to disconnect the source of supply in order to prevent the nominated Temperature Class from being exceeded.
- The flame path dimensions are detailed in IECEx test report AU/TSA/ExTR10.0014/00 Attachment A and shall comply with the manufacturer's drawings listed below.

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## IECEx Certificate of Conformity Annexe

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### Drawing list pertaining to Issue 0 of this Certificate:

| Drawing/<br>Document<br>No.: | Page/s: | Title:                               | Revision<br>Level: | Date:<br>(yyyy-mm-dd) |
|------------------------------|---------|--------------------------------------|--------------------|-----------------------|
| HPD0801                      | 1       | Flameproof HPD080                    | E                  | 2010-08-20            |
| HPD0802                      | 1       | Flameproof HPD080                    | E                  | 2010-08-03            |
| HPD0901                      | 1       | Flameproof HPD 90                    | E                  | 2010-08-20            |
| HPD0902                      | 1       | Flameproof HPD 90                    | E                  | 2010-09-15            |
| HPD1001                      | 1       | Flameproof HPD100                    | E                  | 2010-08-20            |
| HPD1002                      | 1       | Flameproof HPD100                    | E                  | 2010-09-15            |
| HPD1121                      | 1       | Flameproof HPD112                    | F                  | 2010-08-20            |
| HPD1122                      | 1       | Flameproof HPD112                    | E                  | 2010-09-15            |
| HPD1321                      | 1       | Flameproof HPD132                    | E                  | 2010-05-19            |
| HPD1322                      | 1       | Flameproof HPD132                    | E                  | 2010-09-24            |
| HPD1601                      | 1       | Flameproof HPD160                    | F                  | 2010-08-25            |
| HPD1602                      | 1       | Flameproof HPD160                    | E                  | 2010-09-13            |
| HPD1801                      | 1       | Flameproof HPD180                    | G                  | 2010-09-13            |
| HPD1802                      | 1       | Flameproof HPD180                    | E                  | 2010-09-13            |
| HPD2001                      | 1       | Flameproof HPD200                    | F                  | 2010-08-25            |
| HPD2002                      | 1       | Flameproof HPD200                    | F                  | 2010-09-27            |
| HPD2251                      | 1       | Flameproof HPD225                    | F                  | 2010-08-15            |
| HPD2252                      | 1       | Flameproof HPD225                    | E                  | 2010-09-13            |
| HPD2501                      | 1       | Flameproof HPD250                    | E                  | 2010-05-19            |
| HPD2502                      | 1       | Flameproof HPD250                    | E                  | 2010-09-13            |
| HPD2801                      | 1       | Flameproof HPD280                    | F                  | 2010-08-04            |
| HPD2802                      | 1       | Flameproof HPD280                    | E                  | 2010-09-15            |
| HPD3151                      | 1       | Flameproof HPD315                    | G                  | 2010-05-19            |
| HPD3152                      | 1       | Flameproof HPD315                    | G                  | 2010-09-24            |
| HPD0811TB                    | 1       | Flameproof Terminal Box HPD80 - 112  | K                  | 2010-09-30            |
| HPD1318TB                    | 1       | Flameproof Terminal Box HPD132 - 180 | H                  | 2010-08-03            |
| HPD2022TB                    | 1       | Flameproof Terminal Box HPD200 - 225 | H                  | 2010-08-03            |
| HPD2528TB                    | 1       | Flameproof Terminal Box HPD250 - 280 | H                  | 2010-08-03            |
| HPD315TB                     | 1       | Flameproof Terminal Box HPD315       | H                  | 2010-08-03            |
| HPD001                       | 1       | Placement of Auxiliary Devices       | B                  | 2009-05-26            |

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| <b>Drawing/<br/>Document<br/>No.:</b> | <b>Page/s:</b> | <b>Title:</b>   | <b>Revision<br/>Level:</b> | <b>Date:<br/>(yyyy-mm-dd)</b> |
|---------------------------------------|----------------|---|----------------------------|-------------------------------|
| HPD001A                               | 1              | Anti-Condensation Heater Allocations HPD80 - 315 Frames                         | A                          | 2009-05-26                    |
| HPD004A                               | 1              | Forced Ventilation 200 - 315 Frames by Separately Driven Cooling Fan (Option 1) | C                          | 2010-09-15                    |
| HPD004B                               | 1              | Forced Ventilation 200 - 315 Frames by Separately Driven Cooling Fan (Option 2) | C                          | 2010-09-15                    |
| HPD005                                | 1              | Rain Hood Details for Shaft Down Motors   | B                          | 2009-05-27                    |
| HPD006                                | 1              | HPD Nameplate for Ex d 80 - 315   | F                          | 2010-09-13                    |
| HPD007                                | 1              | HPD Options List Ex d 80 - 315  | D                          | 2010-08-13                    |
| HPD008                                | 1              | Flange Earth Placement Ex d 80 - 315  | A                          | 2010-08-13                    |

### Variations permitted by Issue 1.

**Table 1**

|   |   |   |
|---|---|---|
| 1 | Change of Address                           | CMG Electric Motors NZ Ltd<br>18 Jomac Place Avondale Auckland New Zealand  |
| 2 | New Manufacturing Location                  | CMG Pty Ltd<br>21 Colin Jamieson Drive Welshpool WA 6106  |
| 3 | Dimension and tolerance changes to drawings | Changes in dimensions of hole depths, tapping depth, tolerances to clearance holes, correction to end shield bolt PCD, warning label dimension added. |

### Note

See "Additional Information" Page 5 of the Certificate for the list of Additional Manufacturing Locations.


### Conditions of Certification relating to variations permitted by Issue 1 of this Certificate:

All previous conditions still apply.

### Drawing relating to variations permitted by Issue 1 of this Certificate:

| <b>Drawing/<br/>Document<br/>No.</b> | <b>Sheets</b> | <b>Drawing/Document Title</b> | <b>Issue/<br/>Revision</b> | <b>Date</b> |
|--------------------------------------|---------------|-------------------------------|----------------------------|-------------|
| HPD0801                              | 1             | Flame Proof HPD080            | F                          | 2012-03-09  |
| HPD0802                              | 1             | Flame Proof HPD080            | F                          | 2010-12-09  |
| HPD0902                              | 1             | Flame Proof HPD090            | F                          | 2010-12-09  |
| HPD1002                              | 1             | Flame Proof HPD100            | F                          | 2010-12-09  |
| HPD1122                              | 1             | Flame Proof HPD112            | F                          | 2010-12-09  |
| HPD1322                              | 1             | Flame Proof HPD132            | F                          | 2010-12-09  |
| HPD1602                              | 1             | Flame Proof HPD160            | F                          | 2010-09-13  |
| HPD1802                              | 1             | Flame Proof HPD180            | F                          | 2010-12-09  |

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| Drawing/<br>Document<br>No. | Sheets | Drawing/Document Title  | Issue/<br>Revision | Date       |
|-----------------------------|--------|---|--------------------|------------|
| HPD2002                     | 1      | Flame Proof HPD200  | G                  | 2010-12-09 |
| HPD2252                     | 1      | Flame Proof HPD225  | G                  | 2012-03-09 |
| HPD2502                     | 1      | Flame Proof HPD250  | G                  | 2012-03-27 |
| HPD2802                     | 1      | Flame Proof HPD280  | F                  | 2010-12-09 |
| HPD3152                     | 1      | Flame Proof HPD315  | H                  | 2010-12-09 |
| HPD0811TB                   | 1      | Flame Proof Terminal Box HPD 080-112  | L                  | 2011-07-05 |
| HPD1318TB                   | 1      | Flame Proof Terminal Box HPD 132-180  | K                  | 2011-07-05 |
| HPD2022TB                   | 1      | Flame Proof Terminal Box HPD 200-225  | K                  | 2011-07-05 |
| HPD2528TB                   | 1      | Flame Proof Terminal Box HPD 250-280  | K                  | 2011-07-05 |
| HPD315TB                    | 1      | Flame Proof Terminal Box HPD 315  | I                  | 2011-07-05 |
| HPD001                      | 1      | Placement of Auxiliary Devices  | C                  | 2010-12-16 |
| HPD004A                     | 1      | Forced Ventilation 200-315 Frames by<br>Separately Driven cooling Fan(Optional 1) | D                  | 2011-12-16 |
| HPD004B                     | 1      | Forced Ventilation 200-315 Frames by<br>Separately Driven cooling Fan(Optional 2) | D                  | 2011-12-16 |
| HPD006                      | 1      | HPD Name plates Exd 80-315  | G                  | 2011-12-16 |
| HPD007                      | 1      | HPD Options List Exd 80-315   | E                  | 2010-12-17 |

### Variations permitted by Issue 2

Linked quality assessment reports for additional manufacturing locations – Singapore & New Zealand

### Conditions of Certification relating to variations permitted by Issue 2 of this Certificate:

All previous conditions still apply.

### Variations permitted by Issue 3

Manufacturing company's name has changed from CMG Australia Pty Ltd to Regal Beloit Australia Pty Ltd.

### Conditions of Certification relating to variations permitted by Issue 3 of this Certificate:

All previous conditions still apply.

### Drawing relating to variations permitted by Issue 3 of this Certificate:

| Drawing/<br>Document<br>No. | Sheets | Drawing/Document Title       | Issue/<br>Revision | Date       |
|-----------------------------|--------|------------------------------|--------------------|------------|
| HPD006                      | 1      | HPD Nameplate for Exd 80-315 | H                  | 2013/05/24 |
| HPD006NZ                    | 1      | HPD Nameplate for Exd 80-315 | A                  | 2013/05/24 |
| HPD006SG                    | 1      | HPD Nameplate for Exd 80-315 | A                  | 2013/05/24 |

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