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Australian Government
GEMS Regulator

GREENHOUSE & ENERGY
**MINIMUM
STANDARDS
REGULATOR**

ENERGY RATING PRODUCT REGISTRATION SYSTEM PRODUCT APPLICATION QUESTIONS

ELECTRIC MOTORS

AUSTRALIA

Per Greenhouse and Energy Minimum Standards (Three Phase Cage Induction Motors) Determination 2019

February 2022

This form is designed for applicants' internal use only, not for submitting applications to the Australian or New Zealand Regulator.

All applications for product registration must be submitted to the appropriate Regulator via the Energy Rating Product Registration System located at <https://reg.energyrating.gov.au>.

The Regulators cannot accept any applications in hard copy.

Note that this form may be updated from time to time to reflect changes to the Registration System and it is the applicant's responsibility to ensure they are using the latest version.

Any question with a red asterisk (*) next to it is mandatory.

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VERSION CONTROL

Revision Date	Version	Summary of Changes
4 February 2022	1.2	“Exemption” fields added. Accessibility improved. Branding updated.
3 February 2020	1.1	Removed DoEE logo for MoG changes – no change to content.
23 March 2017	1.0	Document finalised.
28 February 2017	0.1	Initial document created.

MODELS AND MANUFACTURER

Product Model Information

Fill in one of the two boxes below, depending on if the product being registered is a single model or a family of models.

<p><u>FOR SINGLE MODELS</u></p> <p>Model Number:* _____ Brand:* _____</p>

<p><u>FOR FAMILY OF MODELS</u></p> <p>What is the family name of the models covered by this application?*</p> <p>_____</p>
--

Please provide details for each model covered by this registration, if it is a family of models:

Note: There is a limit of 10 model number(s) for the determination: Greenhouse and Energy Minimum Standards (Three Phase Cage Induction Motors) Determination 2019.

<p><u>#1</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>	<p><u>#2</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>
<p><u>#3</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>	<p><u>#4</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>
<p><u>#5</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>	<p><u>#6</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>
<p><u>#7</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>	<p><u>#8</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>
<p><u>#9</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>	<p><u>#10</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>

Manufacturing Information

Tick if the product is manufactured in-house

Please provide the following information on the manufacturer if the product is not manufactured in-house. Additional fields are included if there are more than one manufacturer for this product.

Manufacturer Name:* _____

Manufacturer ABN or Company Number:* _____

Name of Contact Person:* _____

Company Phone:* _____ Company Fax: _____

Company Email:* _____ Company Website: _____

Street Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

Is the postal address the same as the street address?*

Yes
 No

If you have ticked No, please complete the postal address fields below:

Postal Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

Second Manufacturer

If applicable, who is the second manufacturer?

Manufacturer Name:* _____

Manufacturer ABN or Company Number:* _____

Name of Contact Person:* _____

Company Phone:* _____ Company Fax: _____

Company Email:* _____ Company Website: _____

Street Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

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Is the postal address the same as the street address?*

Yes
 No

If you have ticked No, please complete the postal address fields below:

Postal Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

Third Manufacturer

If applicable, who is the third manufacturer?

Manufacturer Name:* _____

Manufacturer ABN or Company Number:* _____

Name of Contact Person:* _____

Company Phone:* _____ Company Fax: _____

Company Email:* _____ Company Website: _____

Street Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

Is the postal address the same as the street address?*

Yes
 No

If you have ticked No, please complete the postal address fields below:

Postal Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

In what country/countries is this product manufactured?*

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How can the date of manufacture be determined from permanent markings on the appliance?* - Please tick accordingly and if required, provide further information

From a date permanently marked on the rating plate in a non-encrypted format

Provide an example of the date format:

From a date permanently marked on the rating plate in an encrypted format

Describe how the date of manufacture can be determined from the markings on the appliance:

From another form of permanent marking on the product

Describe how the date of manufacture can be determined from the markings on the appliance:

No date mark

Sale Information

In what country/countries will this product be sold?* (please tick one or both, if required)

- Australia
- New Zealand

When will this product be (or when was this product) first available for purchase?* (please specify exact date)

LABS & TEST REPORTS

Is a test report provided?*

Yes – a test report is provided (please ensure test report is provided with this form)

If you ticked yes, please answer the questions below:

What test standard was used?* (please tick one)

IEC 60034-2-1 (Edition 2.0)

IEEE 112: 2004

IEEE 112: 2017

Which laboratory performed the testing?* - please provide name of laboratory, type of lab (independent or own lab), and street and/or postal address.

Please provide details for each test report, if multiple test reports are provided.

Test Report Number:* _____

Report Signatory:* _____

Test Date:* _____

Test Unit Serial Number:* _____

No - no test report available but registration details containing test relevant to this product provided

If you ticked 'no test report available, but registration details provided', please answer the question below:

Registration number of the unit whose test forms the basis of this application:*

Comments regarding the product, the test procedure or test results that should be taken into account when assessing the product for compliance:

EXEMPTION

Has an exemption from MEPS performance for this model been granted by the GEMS Regulator? (please tick one) Yes No

If you ticked yes, please answer the question below:

Did your exemption approval letter exempt your registration from payment? (please tick one) Yes No

*Please attach the approval letter to this form so it can be uploaded into the system.**

APPLIANCE DETAILS

Rated load:* _____ kW

Frequency:* (please tick one)

50 60 50/60 Other: _____

Number of poles:* (please tick one)

2 4 6 8

Motor design type:* (please tick one)

TEFC OPDP Other: _____

Mounting code: (IEC 60034.7)* (tick all that apply)

<input type="checkbox"/> B3	<input type="checkbox"/> B5	<input type="checkbox"/> B6	<input type="checkbox"/> B7	<input type="checkbox"/> B8	<input type="checkbox"/> B9	<input type="checkbox"/> B10
<input type="checkbox"/> B14	<input type="checkbox"/> B15	<input type="checkbox"/> B20	<input type="checkbox"/> B25	<input type="checkbox"/> B30	<input type="checkbox"/> B34	<input type="checkbox"/> B35
<input type="checkbox"/> V1	<input type="checkbox"/> V2	<input type="checkbox"/> V3	<input type="checkbox"/> V4	<input type="checkbox"/> V5	<input type="checkbox"/> V6	<input type="checkbox"/> V8
<input type="checkbox"/> V9	<input type="checkbox"/> V10	<input type="checkbox"/> V14	<input type="checkbox"/> V15	<input type="checkbox"/> V16	<input type="checkbox"/> V18	<input type="checkbox"/> V19
<input type="checkbox"/> V30	<input type="checkbox"/> V31	<input type="checkbox"/> V36				

Tested full load RPM:* _____

Note: This is the Tested Full Load RPM (100% Load) RPM – Not the RPM value listed on the motor Rating Plate.

Current:* _____ A

(You only need to fill in this field if you are registering a family of models.)

Voltage or voltage range marked on nameplate:* (tick all that apply)

<input type="checkbox"/> 200V	<input type="checkbox"/> 220V	<input type="checkbox"/> 230V	<input type="checkbox"/> 240V	<input type="checkbox"/> 380V	<input type="checkbox"/> 400V	<input type="checkbox"/> 415v
<input type="checkbox"/> 440 V	<input type="checkbox"/> 460V	<input type="checkbox"/> 480V	<input type="checkbox"/> 550V	<input type="checkbox"/> 690V	<input type="checkbox"/> 1000V	<input type="checkbox"/> 1100V
<input type="checkbox"/> Other: _____						

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Frame code (IEC 60072/60072A):* (tick all that apply)

- | | | | | | |
|---|---|---|---|---|---|
| <input type="checkbox"/> 56M (foot) | <input type="checkbox"/> 63M (foot) | <input type="checkbox"/> 71M (foot) | <input type="checkbox"/> 80M (foot) | <input type="checkbox"/> 90S (foot) | <input type="checkbox"/> 90L (foot) |
| <input type="checkbox"/> 100S(foot) | <input type="checkbox"/> 100L(foot) | <input type="checkbox"/> 112S (foot) | <input type="checkbox"/> 112M (foot) | <input type="checkbox"/> 112L (foot) | <input type="checkbox"/> 132S (foot) |
| <input type="checkbox"/> 132M(foot) | <input type="checkbox"/> 132L(foot) | <input type="checkbox"/> 160S (foot) | <input type="checkbox"/> 160M (foot) | <input type="checkbox"/> 160L (foot) | <input type="checkbox"/> 180S (foot) |
| <input type="checkbox"/> 180M(foot) | <input type="checkbox"/> 180L(foot) | <input type="checkbox"/> 200S (foot) | <input type="checkbox"/> 200M (foot) | <input type="checkbox"/> 200L (foot) | <input type="checkbox"/> 225S (foot) |
| <input type="checkbox"/> 225M(foot) | <input type="checkbox"/> 225L (foot) | <input type="checkbox"/> 250S (foot) | <input type="checkbox"/> 250M (foot) | <input type="checkbox"/> 250L (foot) | <input type="checkbox"/> 280S (foot) |
| <input type="checkbox"/> 280M(foot) | <input type="checkbox"/> 280L(foot) | <input type="checkbox"/> 315S (foot) | <input type="checkbox"/> 315M (foot) | <input type="checkbox"/> 315L (foot) | <input type="checkbox"/> 355S (foot) |
| <input type="checkbox"/> 355M (foot) | <input type="checkbox"/> 355L (foot) | <input type="checkbox"/> 400S (foot) | <input type="checkbox"/> 400M (foot) | <input type="checkbox"/> 400L (foot) | <input type="checkbox"/> 450 (foot) |
| <input type="checkbox"/> 500 (foot) | <input type="checkbox"/> 560 (foot) | <input type="checkbox"/> 630 (foot) | <input type="checkbox"/> 710 (foot) | <input type="checkbox"/> 800 (foot) | <input type="checkbox"/> 900 (foot) |
| <input type="checkbox"/> 1000 (foot) | <input type="checkbox"/> 55 (flange) | <input type="checkbox"/> 65 (flange) | <input type="checkbox"/> 75 (flange) | <input type="checkbox"/> 85 (flange) | <input type="checkbox"/> 100 (flange) |
| <input type="checkbox"/> 115 (flange) | <input type="checkbox"/> 130 (flange) | <input type="checkbox"/> 165 (flange) | <input type="checkbox"/> 215 (flange) | <input type="checkbox"/> 265 (flange) | <input type="checkbox"/> 300 (flange) |
| <input type="checkbox"/> 350 (flange) | <input type="checkbox"/> 400 (flange) | <input type="checkbox"/> 500 (flange) | <input type="checkbox"/> 600 (flange) | <input type="checkbox"/> 740 (flange) | <input type="checkbox"/> 940 (flange) |
| <input type="checkbox"/> 1080 (flange) | <input type="checkbox"/> 1180 (flange) | <input type="checkbox"/> 1320 (flange) | <input type="checkbox"/> 1500 (flange) | <input type="checkbox"/> 1700 (flange) | <input type="checkbox"/> 1900 (flange) |
| <input type="checkbox"/> 2120 (flange) | <input type="checkbox"/> 2360 (flange) | <input type="checkbox"/> BF10 (flange – small built in motor) | <input type="checkbox"/> BF14 (flange – small built in motor) | <input type="checkbox"/> BF16 (flange – small built in motor) | <input type="checkbox"/> BF22 (flange – small built in motor) |
| <input type="checkbox"/> BF28 (flange – small built in motor) | <input type="checkbox"/> BF32 (flange – small built in motor) | <input type="checkbox"/> BF36 (flange – small built in motor) | <input type="checkbox"/> BF40 (flange – small built in motor) | <input type="checkbox"/> BF45 (flange – small built in motor) | <input type="checkbox"/> BF50 (flange – small built in motor) |
| <input type="checkbox"/> Other: | | | | | |

Enclosure code type (IEC 60034-5):* (tick all that apply)

- | | | | |
|--|--|--|--|
| <input type="checkbox"/> IP00: No water protection | <input type="checkbox"/> IP01: Protection from vertical drips | <input type="checkbox"/> IP02: Protection from drips at 15 degrees | <input type="checkbox"/> IP10: No water protection |
| <input type="checkbox"/> IP11: Protection from vertical drips | <input type="checkbox"/> IP12: Protection from drips at 15 degree tilt | <input type="checkbox"/> IP13: Protection from spray at 60 degrees | <input type="checkbox"/> IP14: Protection from splashing water |
| <input type="checkbox"/> IP15: Protection from water jets | <input type="checkbox"/> IP20: No water protection | <input type="checkbox"/> IP21: Protection from vertical drips | <input type="checkbox"/> IP22: Protection from drips at 15 degree tilt |
| <input type="checkbox"/> IP23: Protection from spray at 60 degrees | <input type="checkbox"/> IP24: Protection from splashing water | <input type="checkbox"/> IP25: Protection from water jets | <input type="checkbox"/> IP30: No water protection |
| <input type="checkbox"/> IP31: Protection from vertical drips | <input type="checkbox"/> IP32: Protection from drips at 15 degree tilt | <input type="checkbox"/> IP33: Protection from spray at 60 degrees | <input type="checkbox"/> IP34: Protection from splashing water |
| <input type="checkbox"/> IP35: Protection from water jets | <input type="checkbox"/> IP40: No water protection | <input type="checkbox"/> IP41: Protection from vertical drips | <input type="checkbox"/> IP42: Protection from drips at 15 degree tilt |
| <input type="checkbox"/> IP43: Protection from spray at 60 degrees | <input type="checkbox"/> IP44: Protection from splashing water | <input type="checkbox"/> IP45: Protection from water jets | <input type="checkbox"/> IP46: Protection from heavy seas |
| <input type="checkbox"/> IP47: Protection against immersion | <input type="checkbox"/> IP48: Protection against continuous immersion | <input type="checkbox"/> IP50: No water protection | <input type="checkbox"/> IP51: Protection from vertical drips |
| <input type="checkbox"/> IP52: Protection from drips at 15 degree tilt | <input type="checkbox"/> IP53: Protection from spray at 60 degrees | <input type="checkbox"/> IP54: Protection from splashing water | <input type="checkbox"/> IP55: Protection from water jets |
| <input type="checkbox"/> IP56: Protection from heavy seas | <input type="checkbox"/> IP57: Protection against immersion | <input type="checkbox"/> IP58: Protection against continuous immersion | <input type="checkbox"/> IP65: Protection against water jet |
| <input type="checkbox"/> IP66: Protection against powerful water jet | | | |

MEPS

Is MEPS applicable?*

- Yes – 2018 MEPS level
- No

If you ticked yes, please answer the questions below:

At what load does this model comply with MEPS?* (please tick one)

- 100% rated load
- 75% rated load
- Both 100% and 75% rated load

Does this model comply with high efficiency requirements (HEPS)?*

- Yes – 2018 High Efficiency level
- No

If you ticked yes to high efficiency requirements, please answer the question below:

At what load does this model comply with high efficiency requirements?* (please tick one)

- 100% rated load
- 75% rated load
- Both 100% and 75% rated load

TEST RESULTS

Which test method was used?* (please tick one)

- Method B
- Method 2-1-1B

Nominal full-load

Efficiency:* _____ % Power factor:* _____

Nominal ¾ load

Efficiency:* _____ % Power factor:* _____

Nominal ½ load

Efficiency:* _____ % Power factor:* _____