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# Customer information packet

## CEM3615T-G

5HP, 1750RPM, 3PH, 60HZ, 184TC, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Enclosure                      | TEFC                                    |
| Frame                          | 184TC                                   |
| Frame Material                 | Steel                                   |
| Frequency                      | 60.00 Hz                                |
| Haz Area Class and Group       | None                                    |
| Haz Area Division              | Not Applicable                          |
| Motor Letter Type              | Three Phase                             |
| Output @ Frequency             | 5.000 HP @ 60 HZ                        |
| Phase                          | 3                                       |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                        |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ      |
| Agency Approvals               | CSA<br>CSA EEV<br>NEMA PREMIUM<br>UR    |
| Ambient Temperature            | 40 °C                                   |
| Auxiliary Box                  | NO AUXILLARY BOX                        |
| Auxiliary Box Lead Termination | None                                    |
| Base Indicator                 | Rigid                                   |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                 |
| Blower                         | None                                    |
| Current @ Voltage              | 6.700 A @ 460.0 V<br>13.400 A @ 230.0 V |
| Design Code                    | B                                       |
| Drip Cover                     | No Drip Cover                           |
| Duty Rating                    | CONT                                    |
| Efficiency @ 100% Load         | 89.5 %                                  |
| Electrically Isolated Bearing  | Not Electrically Isolated               |
| Feedback Device                | NO FEEDBACK                             |
| Heater Indicator               | No Heater                               |
| High Voltage Full Load Amps    | 6.7 a                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | E          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGS268   |
| Layout       | 36LYN147   |
| Eff. date    | 09-08-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 12-17-2019 |

|                                   |                       |
|-----------------------------------|-----------------------|
| <b>Insulation Class</b>           | H                     |
| <b>Inverter Code</b>              | Inverter Ready        |
| <b>IP Rating</b>                  | NONE                  |
| <b>KVA Code</b>                   | J                     |
| <b>Lifting Lugs</b>               | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>   | Locked Bearing        |
| <b>Motor Lead Termination</b>     | Flying Leads          |
| <b>Motor Standards</b>            | NEMA                  |
| <b>Motor Type</b>                 | 3642M                 |
| <b>Mounting Arrangement</b>       | F1                    |
| <b>Number of Poles</b>            | 4                     |
| <b>Overall Length</b>             | 18.05 IN              |
| <b>Power Factor</b>               | 78                    |
| <b>Product Family</b>             | General Purpose       |
| <b>Pulley Face Code</b>           | C-Face                |
| <b>Rodent Screen</b>              | None                  |
| <b>Service Factor</b>             | 1.15                  |
| <b>Shaft Diameter</b>             | 1.125 IN              |
| <b>Shaft Ground Indicator</b>     | Shaft Grounding       |
| <b>Shaft Rotation</b>             | Reversible            |
| <b>Speed</b>                      | 1750 rpm              |
| <b>Speed Code</b>                 | Single Speed          |
| <b>Starting Method</b>            | Direct on line        |
| <b>Thermal Device - Bearing</b>   | None                  |
| <b>Thermal Device - Winding</b>   | None                  |
| <b>Vibration Sensor Indicator</b> | No Vibration Sensor   |
| <b>Winding Thermal 1</b>          | None                  |
| <b>Winding Thermal 2</b>          | None                  |

## Nameplate

## NP3441LUA

|                           |                             |  |      |      |     |   |       |   |       |  |
|---------------------------|-----------------------------|--|------|------|-----|---|-------|---|-------|--|
| CAT.NO.                   | CEM3615T-G                  |  |      |      |     |   |       |   |       |  |
| SPEC                      | 36-0000-0252                |  |      |      |     |   |       |   |       |  |
| HP                        | 5                           |  |      |      |     |   |       |   |       |  |
| VOLTS                     | 230/460                     |  |      |      |     |   |       |   |       |  |
| AMPS                      | 13.4/6.7                    |  |      |      |     |   |       |   |       |  |
| RPM                       | 1750                        |  |      |      |     |   |       |   |       |  |
| FRAME                     | 184TC                       |  | HZ   | 60   |     |   | PH    | 3 |       |  |
| SF                        | 1.15                        |  | CODE | J    | DES | B | CLASS | H |       |  |
| NEMA NOM. EFF             | 89.5                        |  | PF   | 78   |     |   |       |   |       |  |
| RATING                    | 40C AMB-CONT                |  |      |      |     |   |       |   |       |  |
| CC                        | 010A                        |  |      |      |     |   |       |   |       |  |
| ENCL                      | TEFC                        |  | SER  |      |     |   |       |   |       |  |
| DE                        | 6206                        |  | ODE  | 6205 |     |   |       |   |       |  |
| VPWM INVERTER READY       |                             |  |      |      |     |   |       |   |       |  |
| CT6-60H(10:1)VT3-60H(20:1 |                             |  |      |      |     |   |       |   |       |  |
|                           | 50HZ 5HP 190/380V 15.6/7.8A |  |      |      |     |   |       |   | SF1.0 |  |

## AC Induction Motor Performance Data

Record # 52962

Typical performance - not guaranteed values

| Winding: 36WGS268-R078 |    |              | Type: 3642M                              |                           | Enclosure: TEFC  |                       |        |        |
|------------------------|----|--------------|------------------------------------------|---------------------------|------------------|-----------------------|--------|--------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                  |                       |        |        |
| Rated Output (HP)      |    | 5            | Full Load Torque                         |                           | 14.9 LB-FT       |                       |        |        |
| Volts                  |    | 230/460      | Start Configuration                      |                           | direct on line   |                       |        |        |
| Full Load Amps         |    | 13.4/6.7     | Breakdown Torque                         |                           | 52.2 LB-FT       |                       |        |        |
| R.P.M.                 |    | 1750         | Pull-up Torque                           |                           | 31.5 LB-FT       |                       |        |        |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque       |                  | 34.9 LB-FT            |        |        |
| NEMA Design Code       |    | B            | KVA Code                                 | J                         | Starting Current |                       | 49.1 A |        |
| Service Factor (S.F.)  |    | 1.15         |                                          | No-load Current           |                  | 3.24 A                |        |        |
| NEMA Nom. Eff.         |    | 89.5         | Power Factor                             |                           | 78               | Line-line Res. @ 25°C |        | 2.27 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                  | 71°C                  |        |        |
| S.F. Amps              |    |              |                                          | Temp. Rise @ S.F. Load    |                  | 86°C                  |        |        |
|                        |    |              |                                          | Locked-rotor Power Factor |                  | 39.8                  |        |        |
|                        |    |              |                                          | Rotor inertia             |                  | 0.391 LB-FT2          |        |        |

## Load Characteristics 460 V, 60 Hz, 5 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 39   | 60   | 72   | 78   | 83   | 83   | 81   |
| Efficiency      | 85   | 89.7 | 90.6 | 89.6 | 88.6 | 87   | 89   |
| Speed           | 1789 | 1776 | 1762 | 1750 | 1733 | 1714 | 1740 |
| Line amperes    | 3.55 | 4.31 | 5.43 | 6.65 | 7.94 | 9.64 | 7.42 |

ABB Motors and Mechanical Inc.

WINDING # 36WGS268

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3642M

TORQUES (LB-FT): PO=52.2 PU=31.5 LR=34.9 LRA=49.1





