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# Customer information packet

## GNEM3764T-G

3HP//2.2KW, 1165//960RPM, 3PH, 60//50HZ, 213

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------|
| Enclosure                      | TEFC                                                                                        |
| Frame                          | 213T                                                                                        |
| Frame Material                 | Iron                                                                                        |
| Frequency                      | 50.00 Hz<br>60.00 Hz                                                                        |
| Haz Area Class and Group       | None                                                                                        |
| Haz Area Division              | Not Applicable                                                                              |
| Motor Letter Type              | Three Phase                                                                                 |
| Output @ Frequency             | 3.000 HP @ 60 HZ<br>2.200 KW @ 50 HZ                                                        |
| Phase                          | 3                                                                                           |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                                                                            |
| Voltage @ Frequency            | 190.0 V @ 50 HZ<br>208.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>380.0 V @ 50 HZ<br>460.0 V @ 60 HZ |
| Agency Approvals               | CE<br>WEEE<br>UKCA<br>CURUSEEV<br>IE3<br>NEMA PREMIUM                                       |
| 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              | 9.300 A @ 208.0 V<br>9.000 A @ 230.0 V<br>5.200 A @ 380.0 V<br>4.500 A @ 460.0 V            |

## Part detail

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | AC         |
| Mech. spec.  | 07L783     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 07WGX822   |
| Layout       | 07LYL783   |
| Eff. date    | 05-02-2025 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 09-14-2023 |

10.400 A @ 190.0 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               |
| Front Shaft Indicator         | None                      |
| Heater Indicator              | No Heater                 |
| High Voltage Full Load Amps   | 4.5 a                     |
| Insulation Class              | F                         |
| Inverter Code                 | Inverter Duty             |
| KVA Code                      | K                         |
| Lifting Lugs                  | Standard Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing            |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG                |
| Motor Lead Termination        | Flying Leads              |
| Motor Standards               | NEMA                      |
| Motor Type                    | 0738M                     |
| Mounting Arrangement          | F1                        |
| Number of Poles               | 6                         |
| Overall Length                | 18.45 IN                  |
| Power Factor                  | 70                        |
| Product Family                | General Purpose           |
| Pulley End Bearing Type       | Ball                      |
| Pulley Face Code              | Standard                  |
| Pulley Shaft Indicator        | Standard                  |
| Rodent Screen                 | None                      |
| RoHS Status                   | ROHS COMPLIANT            |
| Service Factor                | 1.15                      |
| Shaft Diameter                | 1.375 IN                  |
| Shaft Ground Indicator        | Shaft Grounding           |
| Shaft Rotation                | Reversible                |
| Shaft Slinger Indicator       | No Slinger                |

|                                   |                     |
|-----------------------------------|---------------------|
| <b>Speed</b>                      | 1165 rpm            |
|                                   | 960 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

| NP4304L        |                              |                |          |        |    |       |      |    |    |
|----------------|------------------------------|----------------|----------|--------|----|-------|------|----|----|
| CAT.NO.        | GNEM3764T-G                  |                |          |        |    |       |      |    |    |
| SPEC.          | 07L783X822G2                 |                |          |        |    |       |      |    |    |
| HP             | 3HP//2.2KW                   |                |          |        |    | PH    | 3    |    |    |
| VOLTS          | 208-230/460//190/380         |                |          |        |    |       |      |    |    |
| AMPS           | 9.3-9/4.5//10.4/5.2          |                |          |        |    |       |      |    |    |
| R.P.M. (1/MIN) | 1165//960                    |                |          |        |    | WT.   | 86KG |    | KG |
| FRAME          | 213T                         |                | HZ       | 60//50 |    |       | I.P. | 44 |    |
| SER.F.         | 1.15                         | CODE           | K        | DES.   | B  | CLASS | H    |    |    |
| NOM.EFF.       | 89.5//84.4                   |                | % (100%) |        |    |       |      |    |    |
| P.F.           | 70                           | IC411, 10:1 VT |          |        |    |       |      |    |    |
| RATING         | 40C AMB-S1 CONT              |                |          |        | CC | 010A  |      |    |    |
| DE             | 6307                         |                | ODE      | 6206   |    |       |      |    |    |
| ENCL           | TEFC                         | SN             |          |        |    |       |      |    |    |
|                | SFA 10.6-10/5//11.8/5.9      |                |          |        |    |       |      |    |    |
|                | IE3-50HZ 90.6(75%),89.7(50%) |                |          |        |    |       |      |    |    |
|                | IE3-60HZ 90.7(75%),88.7(50%) |                |          |        |    |       |      |    |    |

**AC Induction Motor Performance Data**

Record # 102700

Typical performance - not guaranteed values

| Winding: 07WGX822-R057 |  |                      | Type: 0738M                              |                           | Enclosure: TEFC       |                  |             |      |
|------------------------|--|----------------------|------------------------------------------|---------------------------|-----------------------|------------------|-------------|------|
| Nameplate Data         |  |                      | 460 V, 60 Hz:<br>High Voltage Connection |                           |                       |                  |             |      |
| Rated Output (HP)      |  | 3HP//2.2KW           |                                          | Full Load Torque          |                       | 13.46 LB-FT      |             |      |
| Volts                  |  | 208-230/460//190/380 |                                          | Start Configuration       |                       | direct on line   |             |      |
| Full Load Amps         |  | 9.3-9/4.5//10.4/5.2  |                                          | Breakdown Torque          |                       | 46.79 LB-FT      |             |      |
| R.P.M.                 |  | 1165//960            |                                          | Pull-up Torque            |                       | 30.52 LB-FT      |             |      |
| Hz                     |  | 60//50               | Phase                                    | 3                         | Locked-rotor Torque   |                  | 34.44 LB-FT |      |
| NEMA Design Code       |  | B                    |                                          | KVA Code                  | K                     | Starting Current |             | 32 A |
| Service Factor (S.F.)  |  | 1.15                 |                                          | No-load Current           |                       | 2.35 A           |             |      |
| NEMA Nom. Eff.         |  | 89.5                 | Power Factor                             | 70                        | Line-line Res. @ 25°C |                  | 2.62 Ω      |      |
| Rating - Duty          |  | 40C AMB-CONT         |                                          | Temp. Rise @ Rated Load   |                       | 31°C             |             |      |
| S.F. Amps              |  | 10.6-10/5//11.8/5.9  |                                          | Temp. Rise @ S.F. Load    |                       | 37°C             |             |      |
|                        |  |                      |                                          | Locked-rotor Power Factor |                       | 22.7             |             |      |
|                        |  |                      |                                          | Rotor inertia             |                       | 0.945 lb-ft²     |             |      |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 33   | 51   | 62   | 69   | 73   | 75   | 72   |
| Efficiency      | 83.1 | 88.7 | 90.7 | 90.3 | 89.4 | 87.7 | 89.6 |
| Speed           | 1191 | 1184 | 1176 | 1170 | 1160 | 1147 | 1162 |
| Line amperes    | 2.62 | 3.11 | 3.75 | 4.51 | 5.38 | 6.39 | 5    |

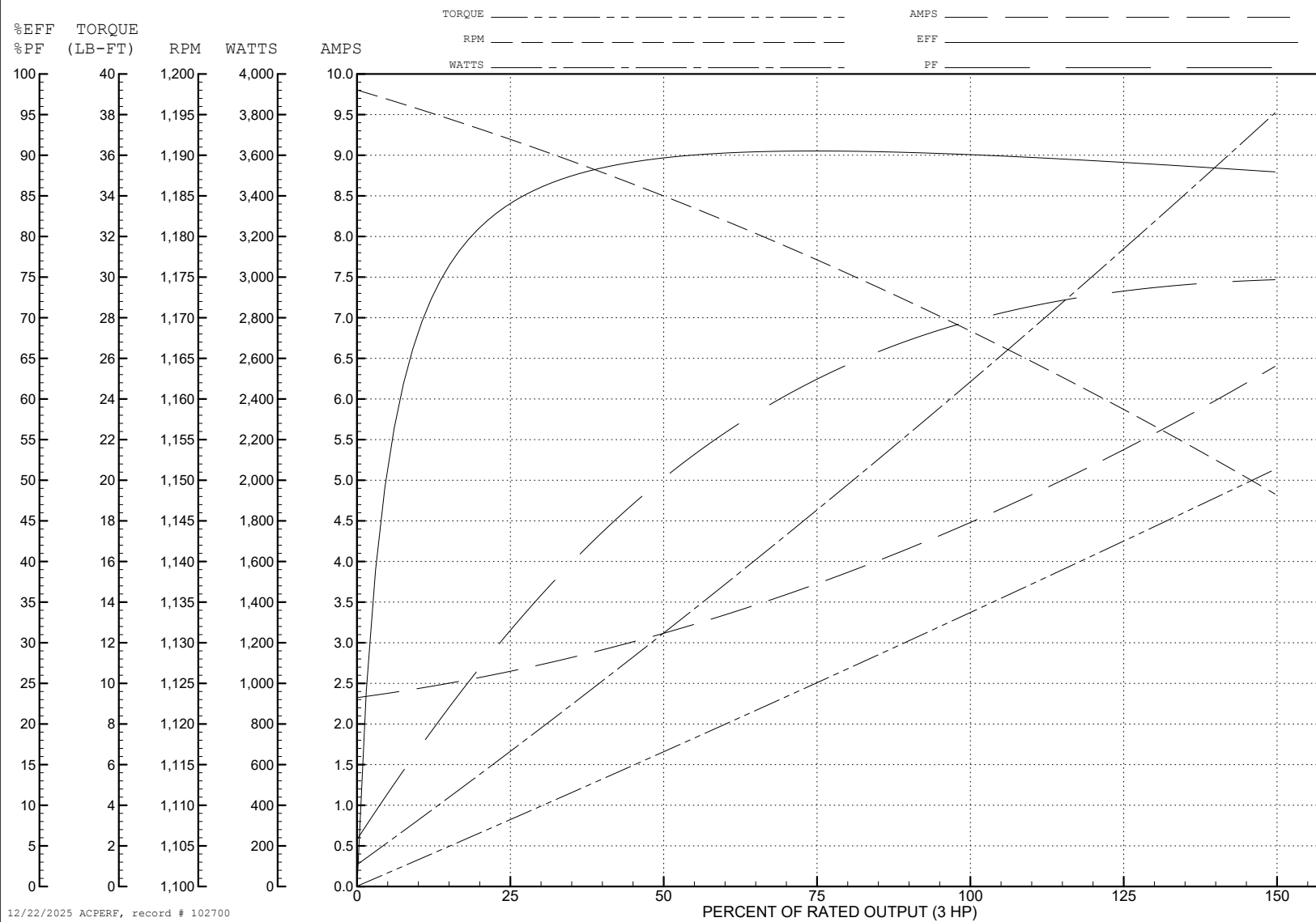
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WINDING # 07WGX822

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1170 RPM 460 V 0738M

TORQUES (LB-FT) : PO=46.79 PU=30.52 LR=34.44 LRA=32



## AC Induction Motor Performance Data

Record # 102701

Typical performance - not guaranteed values

| Winding: 07WGX822-R057 |  |                      | Type: 0738M                              |                     | Enclosure: TEFC     |                         |                           |        |              |
|------------------------|--|----------------------|------------------------------------------|---------------------|---------------------|-------------------------|---------------------------|--------|--------------|
|                        |  |                      |                                          |                     |                     |                         |                           |        |              |
| Nameplate Data         |  |                      | 380 V, 50 Hz:<br>High Voltage Connection |                     |                     |                         |                           |        |              |
| Rated Output (HP)      |  | 3HP//2.2KW           |                                          | Full Load Torque    |                     | 16.37 LB-FT             |                           |        |              |
| Volts                  |  | 208-230/460//190/380 |                                          | Start Configuration |                     | direct on line          |                           |        |              |
| Full Load Amps         |  | 9.3-9/4.5//10.4/5.2  |                                          | Breakdown Torque    |                     | 44.4 LB-FT              |                           |        |              |
| R.P.M.                 |  | 1165//960            |                                          | Pull-up Torque      |                     | 33.2 LB-FT              |                           |        |              |
| Hz                     |  | 60//50               | Phase                                    | 3                   | Locked-rotor Torque |                         | 37.4 LB-FT                |        |              |
| NEMA Design Code       |  | B                    |                                          | KVA Code            | K                   | Starting Current        |                           | 30.8 A |              |
| Service Factor (S.F.)  |  |                      |                                          | 1.15                |                     | No-load Current         |                           | 2.29 A |              |
| NEMA Nom. Eff.         |  | 89.5                 | Power Factor                             |                     | 70                  | Line-line Res. @ 25°C   |                           | 2.62 Ω |              |
| Rating - Duty          |  |                      |                                          | 40C AMB-CONT        |                     | Temp. Rise @ Rated Load |                           | 40°C   |              |
| S.F. Amps              |  |                      |                                          | 10.6-10/5//11.8/5.9 |                     | Temp. Rise @ S.F. Load  |                           | 50°C   |              |
|                        |  |                      |                                          |                     |                     |                         | Locked-rotor Power Factor |        | 26.3         |
|                        |  |                      |                                          |                     |                     |                         | Rotor inertia             |        | 0.945 lb-ft² |

## Load Characteristics 380 V, 50 Hz, 3 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 38   | 59   | 69   | 74   | 76   | 76   | 72   |
| Efficiency      | 86.1 | 89.7 | 90.6 | 89.1 | 87.2 | 84.2 | 89.6 |
| Speed           | 990  | 981  | 972  | 962  | 949  | 931  | 1162 |
| Line amperes    | 2.62 | 3.26 | 4.13 | 5.18 | 6.42 | 7.96 | 5    |

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WINDING # 07WGX822

Typical performance - not guaranteed values.

3 HP 3 PH 50 HZ 962 RPM 380 V 0738M

TORQUES (LB-FT): PO=44.4 PU=33.2 LR=37.4 LRA=30.8

