



## Product Information Packet

# EM3219T-G

7.5HP,3480RPM,3PH,60HZ,184T,3632M,OPSB,F

| Part Detail |        |             |            |             |        |               |            |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision:   | -      | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No         |
| Type:       | AC     | Elec. Spec: | 36WGQ034   | CD Diagram: | CD0005 | Mfg Plant:    |            |
| Mech. Spec: | 36M526 | Layout:     | 36LYM526   | Poles:      | 02     | Created Date: | 12-09-2020 |
| Base:       | RG     | Eff. Date:  | 12-14-2020 | Leads:      | 9#16   |               |            |

| Specs                           |                         |                                |                 |
|---------------------------------|-------------------------|--------------------------------|-----------------|
| Catalog Number:                 | EM3219T-G               | Heater Indicator:              | No Heater       |
| Enclosure:                      | OPSB                    | Insulation Class:              | H               |
| Frame:                          | 184T                    | Inverter Code:                 | Not Inverter    |
| Frame Material:                 | Steel                   | KVA Code:                      | L               |
| Output @ Frequency:             | 7.500 HP @ 60 HZ        | Lifting Lugs:                  | No Lifting Lugs |
| Synchronous Speed @ Frequency:  | 3600 RPM @ 60 HZ        | Locked Bearing Indicator:      | Locked Bearing  |
| Voltage @ Frequency:            | 460.0 V @ 60 HZ         | Motor Lead Quantity/Wire Size: | 9 @ 16 AWG      |
|                                 | 230.0 V @ 60 HZ         | Motor Lead Exit:               | Ko Box          |
| XP Class and Group:             | None                    | Motor Lead Termination:        | Flying Leads    |
| XP Division:                    | Not Applicable          | Motor Type:                    | 3632M           |
| Agency Approvals:               | UR                      | Mounting Arrangement:          | F1              |
|                                 | CSA EEV                 | Power Factor:                  | 89              |
|                                 | CSA                     | Product Family:                | General Purpose |
| Auxillary Box:                  | No Auxillary Box        | Pulley End Bearing Type:       | Ball            |
| Auxillary Box Lead Termination: | None                    | Pulley Face Code:              | Standard        |
| Base Indicator:                 | Rigid                   | Pulley Shaft Indicator:        | Standard        |
| Bearing Grease Type:            | Polyrex EM (-20F +300F) | Rodent Screen:                 | None            |
| Blower:                         | None                    | Shaft Extension Location:      | Pulley End      |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Current @ Voltage:</b>             | 17.400 A @ 230.0 V        | <b>Shaft Ground Indicator:</b>     | Shaft Grounding     |
|                                       | 18.400 A @ 208.0 V        | <b>Shaft Rotation:</b>             | Reversible          |
|                                       | 8.700 A @ 460.0 V         | <b>Shaft Slinger Indicator:</b>    | No Slinger          |
| <b>Design Code:</b>                   | A                         | <b>Speed Code:</b>                 | Single Speed        |
| <b>Drip Cover:</b>                    | No Drip Cover             | <b>Motor Standards:</b>            | NEMA                |
| <b>Duty Rating:</b>                   | CONT                      | <b>Starting Method:</b>            | Direct on line      |
| <b>Electrically Isolated Bearing:</b> | Not Electrically Isolated | <b>Thermal Device - Bearing:</b>   | None                |
| <b>Feedback Device:</b>               | NO FEEDBACK               | <b>Thermal Device - Winding:</b>   | None                |
| <b>Front Face Code:</b>               | Standard                  | <b>Vibration Sensor Indicator:</b> | No Vibration Sensor |
| <b>Front Shaft Indicator:</b>         | None                      | <b>Winding Thermal 1:</b>          | None                |
|                                       |                           | <b>Winding Thermal 2:</b>          | None                |

## Nameplate NP3553L

|                           |              |  |  |      |     |                |      |   |  |       |   |
|---------------------------|--------------|--|--|------|-----|----------------|------|---|--|-------|---|
| CAT.NO.                   | EM3219T-G    |  |  |      |     |                |      |   |  |       |   |
| SPEC                      | 36M526Q034G1 |  |  |      |     |                |      |   |  |       |   |
| HP                        | 7.5          |  |  |      |     |                |      |   |  |       |   |
| VOLTS                     | 230/460      |  |  |      |     |                |      |   |  |       |   |
| AMPS                      | 17.4/8.7     |  |  |      |     |                |      |   |  |       |   |
| RPM                       | 3480         |  |  |      |     |                |      |   |  |       |   |
| FRAME                     | 184T         |  |  |      |     | HZ             | 60   |   |  | PH    | 3 |
| SF                        | 1.15         |  |  | CODE | L   |                | DES  | A |  | CLASS | H |
| NEMA NOM. EFF             | 88.5         |  |  |      | PF  | 89             |      |   |  |       |   |
| RATING                    | 40C AMB-CONT |  |  |      |     |                |      |   |  |       |   |
| CC                        | 010A         |  |  |      |     | USABLE AT 208V |      |   |  | 18.4  |   |
| ENCL                      | OPSB         |  |  |      | SER |                |      |   |  |       |   |
| DE                        | 6206         |  |  |      |     | ODE            | 6205 |   |  |       |   |
| VPWM INVERTER READY       |              |  |  |      |     |                |      |   |  |       |   |
| CT30-60(2:1) VT3-60(20:1) |              |  |  |      |     |                |      |   |  |       |   |

| Parts List  |                                          |          |
|-------------|------------------------------------------|----------|
| Part Number | Description                              | Quantity |
| SA388462    | SA 36M526Q034G1                          | 1.000 EA |
| RA378823    | RA 36M526Q034G1                          | 1.000 EA |
| 36CB3004    | 36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0 | 1.000 EA |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB              | 2.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01   | BRASS CUP WASHER, FOR #10 SCREW          | 1.000 EA |
| 36EP3204B00 | MASTER ODE,205 BRG,GRSR                  | 1.000 EA |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| HW5100A05   | WVY WSHR F/205 & 304 BRGS                | 1.000 EA |
| 36EP3205C00 | MASTER DE,206 BRG,1.197SH,GRSR,LCK BRG   | 1.000 EA |
| 10XN2520A20 | 1/4-20X 1 1/4 HEX HD X                   | 2.000 EA |
| HW1001A25   | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 EA |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| XY2520A12   | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS   | 4.000 EA |
| 36CB4516    | 750LIPPED CB LID - GALVANNEAL            | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW2501E16   | KEY, 1/4 SQ X 1.750                      | 1.000 EA |
| HA7000A02   | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 EA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| LB1459      | AEGIS SGR LABEL "AEGISLBL-100"           | 1.000 EA |
| HA6362ZP    | LIFTING LUG FOR 36 FRAME MOTORS.         | 2.000 EA |
| MJ1000A02   | GREASE, MOBIL POLYREX EM - 124047        | 0.050 LB |
| MG1000Y03   | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,      | 0.022 GA |
| HA3101A25   | THRUBOLT 1/4-20 X 11.000 OHIO ROD        | 4.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 36AD2004A01            | BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA | 1.000 EA |
| LB1115N                | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| LC0005E01              | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| NP3553L                | ALUM SUPER-E VPWM INVERTER READY UL CSA- | 1.000 EA |
| 36PA1000               | PKG GRP, PRINT     PK1016A06             | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 3/19  | 1.000 EA |
| LB1350                 | BAR CODE LABEL FOR YORK                  | 1.000 EA |
| FE-0000001             | ZRTG FE ASSEMBLY                         | 1.000 EA |
| PE-0000001             | ZRTG PE ASSEMBLY                         | 1.000 EA |

## AC Induction Motor Performance Data

Record # 85740

Preliminary Data Sheet

| Winding: 36WGQ034-RXXX  |          |              | Type: 3632M                              |                           | Enclosure: OPSB |              |
|-------------------------|----------|--------------|------------------------------------------|---------------------------|-----------------|--------------|
| Nameplate Data          |          |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                 |              |
| Rated Output (HP)       |          | 7.5          | Full Load Torque                         |                           | 11.3 LB-FT      |              |
| Volts                   |          | 230/460      | Start Configuration                      |                           | direct on line  |              |
| Full Load Amps          |          | 17.4/8.7     | Breakdown Torque                         |                           | 54.3 LB-FT      |              |
| R.P.M.                  |          | 3480         | Pull-up Torque                           |                           | 36.1 LB-FT      |              |
| Hz                      | 60 Phase | 3            | Locked-rotor Torque                      |                           | 41.4 LB-FT      |              |
| NEMA Design Code        |          | A            | KVA Code                                 |                           | L               |              |
| Starting Current        |          | 86.3 A       | No-load Current                          |                           | 3.04 A          |              |
| Service Factor (S.F.)   |          | 1.15         | Line-line Res. @ 25°C                    |                           | 1.69 Ω          |              |
| NEMA Nom. Eff.          |          | 88.5         | Power Factor                             |                           | 89              |              |
| Temp. Rise @ Rated Load |          | 45°C         |                                          | Temp. Rise @ S.F. Load    |                 | 61°C         |
| Rating - Duty           |          | 40C AMB-CONT |                                          | Locked-rotor Power Factor |                 | 63.2         |
| S.F. Amps               |          | 20/10        |                                          | Rotor inertia             |                 | 0.143 lb-ft² |

## Load Characteristics 460 V, 60 Hz, 7.5 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 58   | 80   | 87   | 91   | 93   | 93   | 92   |
| Efficiency      | 81.7 | 87.9 | 89   | 88.6 | 87.6 | 86.1 | 88   |
| Speed           | 3572 | 3543 | 3513 | 3478 | 3442 | 3403 | 3457 |
| Line amperes    | 3.68 | 4.98 | 6.77 | 8.66 | 10.8 | 13.1 | 9.9  |

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values





