



## Product Information Packet

# EM2516T

25HP,3515RPM,3PH,60HZ,256T,3938M,OPSB,F1

| Part Detail |       |             |            |             |        |               |    |
|-------------|-------|-------------|------------|-------------|--------|---------------|----|
| Revision:   | AF    | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No |
| Type:       | AC    | Elec. Spec: | 39WGX424   | CD Diagram: | CD0180 | Mfg Plant:    |    |
| Mech. Spec: | 39K57 | Layout:     | 39LYK057   | Poles:      | 02     | Created Date: |    |
| Base:       | RG    | Eff. Date:  | 09-07-2022 | Leads:      | 9#10   |               |    |

| Specs                           |                         |                                |                       |
|---------------------------------|-------------------------|--------------------------------|-----------------------|
| Catalog Number:                 | EM2516T                 | Heater Indicator:              | No Heater             |
| Enclosure:                      | OPSB                    | Insulation Class:              | F                     |
| Frame:                          | 256T                    | Inverter Code:                 | Inverter Ready        |
| Frame Material:                 | Steel                   | KVA Code:                      | G                     |
| Motor Letter Type:              | Three Phase             | Lifting Lugs:                  | Standard Lifting Lugs |
| Output @ Frequency:             | 25.000 HP @ 60 HZ       | Locked Bearing Indicator:      | No Locked Bearing     |
| Synchronous Speed @ Frequency:  | 3600 RPM @ 60 HZ        | Motor Lead Quantity/Wire Size: | 9 @ 10 AWG            |
| Voltage @ Frequency:            | 230.0 V @ 60 HZ         | Motor Lead Exit:               | Ko Box                |
|                                 | 460.0 V @ 60 HZ         | Motor Lead Termination:        | Flying Leads          |
| XP Class and Group:             | None                    | Motor Type:                    | 3938M                 |
| XP Division:                    | Not Applicable          | Mounting Arrangement:          | F1                    |
| Agency Approvals:               | UR                      | Power Factor:                  | 89                    |
|                                 | CSA EEV                 | Product Family:                | General Purpose       |
|                                 | CSA                     | Pulley End Bearing Type:       | Ball                  |
| Auxillary Box:                  | No Auxillary Box        | Pulley Face Code:              | Standard              |
| Auxillary Box Lead Termination: | None                    | Pulley Shaft Indicator:        | Standard              |
| Base Indicator:                 | Rigid                   | Rodent Screen:                 | None                  |
| Bearing Grease Type:            | Polyrex EM (-20F +300F) | Shaft Extension Location:      | Pulley End            |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Blower:</b>                        | None                      | <b>Shaft Ground Indicator:</b>     | No Shaft Grounding  |
| <b>Current @ Voltage:</b>             | 28.000 A @ 460.0 V        | <b>Shaft Rotation:</b>             | Reversible          |
|                                       | 56.000 A @ 230.0 V        | <b>Shaft Slinger Indicator:</b>    | No Slinger          |
|                                       | 62.000 A @ 208.0 V        | <b>Speed Code:</b>                 | Single Speed        |
| <b>Design Code:</b>                   | A                         | <b>Motor Standards:</b>            | NEMA                |
| <b>Drip Cover:</b>                    | No Drip Cover             | <b>Starting Method:</b>            | Direct on line      |
| <b>Duty Rating:</b>                   | CONT                      | <b>Thermal Device - Bearing:</b>   | None                |
| <b>Electrically Isolated Bearing:</b> | Not Electrically Isolated | <b>Thermal Device - Winding:</b>   | None                |
| <b>Feedback Device:</b>               | NO FEEDBACK               | <b>Vibration Sensor Indicator:</b> | No Vibration Sensor |
| <b>Front Face Code:</b>               | Standard                  | <b>Winding Thermal 1:</b>          | None                |
| <b>Front Shaft Indicator:</b>         | None                      | <b>Winding Thermal 2:</b>          | None                |

## Nameplate NP3554LUA

|           |                           |                |      |                         |              |
|-----------|---------------------------|----------------|------|-------------------------|--------------|
| CAT.NO.   | EM2516T                   | P/N            |      | ENCL                    | OPSB         |
| SPEC.     | 39K057X424G1              | CC             | 010A | FRAME                   | 256T         |
| HP        | 25                        | CLASS          | F    | HZ                      | 60           |
| RPM       | 3515                      | PH             | 3    | DES                     | A            |
| VOLTS     | 230/460                   | CODE           | G    | ODE BRG                 | 6208         |
| AMPS      | 56/28                     | USABLE AT 208V | 62   | DE BRG                  | 6309         |
| RATING    | 40C AMB-CONT              | NEMA-NOM-EFF   | 91.7 | GREASE                  | POLYREX EM   |
| PF        | 89                        | SER.F.         | 1.15 | CT30-60(2:1)            | VT3-60(20:1) |
| USABLE AT | 50HZ 25HP 190/380V 68/34A | SF             | 1.0  |                         |              |
| HTR-VOLTS |                           | HTR-AMPS       |      | MAX. SPACE HEATER TEMP. |              |

**AC Induction Motor Performance Data**

Record # 32011

Typical performance - not guaranteed values

| Winding: 39WGX424-R001 |  |         |  | Type: 3938M                              |  | Enclosure: OPSB |  |
|------------------------|--|---------|--|------------------------------------------|--|-----------------|--|
| Nameplate Data         |  |         |  | 460 V, 60 Hz:<br>High Voltage Connection |  |                 |  |
| Rated Output (HP)      |  | 25      |  | Full Load Torque                         |  | 37.2 LB-FT      |  |
| Volts                  |  | 230/460 |  | Start Configuration                      |  | direct on line  |  |
| Full Load Amps         |  | 56/28   |  | Breakdown Torque                         |  | 148 LB-FT       |  |
| R.P.M.                 |  | 3515    |  | Pull-up Torque                           |  | 54.9 LB-FT      |  |
| Hz                     |  | 60      |  | Phase                                    |  | 3               |  |
| NEMA Design Code       |  | B       |  | KVA Code                                 |  | G               |  |
| Service Factor (S.F.)  |  | 1.15    |  | No-load Current                          |  | 8.48 A          |  |
| NEMA Nom. Eff.         |  | 91.7    |  | Power Factor                             |  | 89              |  |
| Rating - Duty          |  | 40C     |  | AMB-CONT                                 |  |                 |  |
| S.F. Amps              |  |         |  | Temp. Rise @ Rated Load                  |  | 46°C            |  |
|                        |  |         |  | Temp. Rise @ S.F. Load                   |  | 57°C            |  |
|                        |  |         |  | Locked-rotor Power Factor                |  | 28.7            |  |
|                        |  |         |  | Rotor inertia                            |  | 0.971 lb-ft²    |  |

**Load Characteristics 460 V, 60 Hz, 25 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125  | 150  | S.F. |
|-----------------|--------|--------|--------|--------|------|------|------|
| Power Factor    | 50     | 79     | 86     | 89     | 90   | 90   | 90   |
| Efficiency      | 87.5   | 91.8   | 92.3   | 91.7   | 90.7 | 89.4 | 91.1 |
| Speed           | 3578.1 | 3559.4 | 3538.9 | 3515.1 | 3490 | 3461 | 3500 |
| Line amperes    | 13.1   | 15.8   | 21.8   | 28.4   | 35.6 | 43.3 | 32.7 |

Performance Graph at 460V, 60Hz, 25.0HP Typical performance - Not guaranteed values





