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# Customer information packet

## SPM3610T

3HP, 3500RPM, 3PH, 60HZ, 182T, 3634M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | TEFC                                   |
| Frame                          | 182T                                   |
| 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             | 3.000 HP @ 60 HZ                       |
| Phase                          | 3                                      |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                       |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ     |
| Agency Approvals               | CURUSEEV<br>NEMA PREMIUM<br>WEEE       |
| 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              | 3.400 A @ 460.0 V<br>6.800 A @ 230.0 V |
| Design Code                    | A                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 88.5 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Front Shaft Indicator          | None                                   |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 3.4 a                                  |

## Part detail

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  | 36P394     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGT562   |
| Layout       | 36LYP394   |
| Eff. date    | 06-20-2024 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 11-14-2023 |

|                               |                       |
|-------------------------------|-----------------------|
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | M                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Max Speed                     | 5400 rpm              |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3634M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 2                     |
| Overall Length                | 16.55 IN              |
| Power Factor                  | 95                    |
| 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                | 1.125 IN              |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 3500 rpm              |
| Speed Code                    | Single Speed          |
| Starting Method               | Direct on line        |
| Thermal Device - Bearing      | None                  |
| Thermal Device - Winding      | None                  |
| Vibration Sensor Indicator    | No Vibration Sensor   |
| Winding Thermal 1             | None                  |
| Winding Thermal 2             | None                  |

## Nameplate

| NP4423A01A01L |               |      |        |         |   |               |       |    |       |      |      |       |  |
|---------------|---------------|------|--------|---------|---|---------------|-------|----|-------|------|------|-------|--|
| CAT #         | SPM3610T      |      |        |         |   | WGT           | 81    |    | LBS   |      |      |       |  |
| SPEC          | 36P394T562    |      |        |         |   | ENCL          | TEFC  |    |       |      |      |       |  |
| SER #         |               |      |        |         |   | CC            | 010A  |    | IP    | 54   |      |       |  |
| HP            | 3             |      |        | MAG CUR |   |               | 1.8/9 |    |       |      |      |       |  |
| VOLTS         | 230/460       |      |        |         |   | NEMA NOM. EFF |       |    |       |      | 88.5 |       |  |
| AMPS          | 6.8/3.4       |      |        |         |   |               | PF    | 95 |       |      |      |       |  |
| RATING        | 40C AMB-CONT  |      |        |         |   |               |       |    |       |      |      |       |  |
| RPM           | 3500          |      |        |         |   | MAX RPM       |       |    | 5400  |      |      |       |  |
| FRAME         | 182T          |      | HZ     | 60      |   | CODE          | M     |    | CLASS | F    |      |       |  |
| SER.F.        | 1.15          |      | SF AMP | 7.6/3.8 |   |               |       | PH | 3     |      | DES  | A     |  |
| DE            | 6206          |      |        | ODE     |   | 6205          |       |    |       |      |      |       |  |
| LUBRICATION   | POLYREX EM    |      |        |         |   |               |       |    |       |      |      |       |  |
| ID LOGO       | INVERTER TYPE |      |        | VPWM    |   | CHP           | 60    |    | TO    | 90   |      | 1.5:1 |  |
| ID LOGO       | WK2           | 0.15 |        | CT      | 6 |               | TO    | 60 |       | 10:1 |      |       |  |
| ID LOGO       | SL HZ         | 1.7  |        | VT      | 3 |               | TO    | 60 |       | 20:1 |      |       |  |
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**AC Induction Motor Performance Data**

Record # 100910

Typical performance - not guaranteed values

| Winding: 36WGT562-R002 |    |              | Type: 3634M                              |                           | Enclosure: TEFC  |                       |        |        |
|------------------------|----|--------------|------------------------------------------|---------------------------|------------------|-----------------------|--------|--------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                  |                       |        |        |
| Rated Output (HP)      |    | 3            | Full Load Torque                         |                           | 4.55 LB-FT       |                       |        |        |
| Volts                  |    | 230/460      | Start Configuration                      |                           | direct on line   |                       |        |        |
| Full Load Amps         |    | 6.8/3.4      | Breakdown Torque                         |                           | 23.5 LB-FT       |                       |        |        |
| R.P.M.                 |    | 3500         | Pull-up Torque                           |                           | 15.1 LB-FT       |                       |        |        |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque       |                  | 16.9 LB-FT            |        |        |
| NEMA Design Code       |    | A            | KVA Code                                 | M                         | Starting Current |                       | 38.2 A |        |
| Service Factor (S.F.)  |    | 1.15         |                                          | No-load Current           |                  | 0.87 A                |        |        |
| NEMA Nom. Eff.         |    | 88.5         | Power Factor                             |                           | 95               | Line-line Res. @ 25°C |        | 3.58 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                  | 35°C                  |        |        |
| S.F. Amps              |    | 7.6/3.8      |                                          | Temp. Rise @ S.F. Load    |                  | 42°C                  |        |        |
|                        |    |              |                                          | Locked-rotor Power Factor |                  | 42                    |        |        |
|                        |    |              |                                          | Rotor inertia             |                  | 0.153 lb-ft²          |        |        |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 72   | 87   | 93   | 95   | 96   | 97   | 96   |
| Efficiency      | 82.5 | 87.9 | 89.1 | 88.7 | 88.4 | 87.3 | 88.5 |
| Speed           | 3574 | 3551 | 3526 | 3500 | 3473 | 3442 | 3484 |
| Line amperes    | 1.26 | 1.88 | 2.58 | 3.38 | 4.15 | 5.02 | 3.84 |

ABB Motors and Mechanical Inc.

WINDING # 36WGT562

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3500 RPM 460 V 3634M

TORQUES (LB-FT): PO=23.5 PU=15.1 LR=16.9 LRA=38.2





