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# Customer information packet

## SPM3710T-G

7.5HP, 1775RPM, 3PH, 60HZ, 213T, 3752M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Enclosure                      | TEFC                                    |
| Frame                          | 213T                                    |
| 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             | 7.500 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               | WEEE<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              | 19.800 A @ 230.0 V<br>9.900 A @ 460.0 V |
| Design Code                    | A                                       |
| Drip Cover                     | No Drip Cover                           |
| Duty Rating                    | CONT                                    |
| Efficiency @ 100% Load         | 92.4 %                                  |
| Electrically Isolated Bearing  | Not Electrically Isolated               |
| Feedback Device                | NO FEEDBACK                             |
| Front Shaft Indicator          | None                                    |
| Heater Indicator               | No Heater                               |
| High Voltage Full Load Amps    | 9.9 a                                   |
| Insulation Class               | F                                       |

## Part detail

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  | 37T739     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 37WGZ668   |
| Layout       | 37LYT739   |
| Eff. date    | 11-19-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 04-02-2025 |

|                               |                       |
|-------------------------------|-----------------------|
| Inverter Code                 | Inverter Duty         |
| KVA Code                      | L                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Max Speed                     | 2700 rpm              |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3752M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 20.52 IN              |
| Power Factor                  | 76                    |
| 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                | 1.25                  |
| Shaft Diameter                | 1.375 IN              |
| Shaft Ground Indicator        | Shaft Grounding       |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 1775 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 #         | SPM3710T-G    |        |    |         |      | WGT           | 165  |      | LBS   |    |      |  |       |
| SPEC          | 37T739Z668    |        |    |         |      | ENCL          | TEFC |      |       |    |      |  |       |
| SER #         |               |        |    |         |      | CC            | 010A |      | IP    | 54 |      |  |       |
| HP            | 7.5           |        |    | MAG CUR |      | 10.6/5.3      |      |      |       |    |      |  |       |
| VOLTS         | 230/460       |        |    |         |      | NEMA NOM. EFF |      |      |       |    | 92.4 |  |       |
| AMPS          | 19.8/9.9      |        |    |         |      |               | PF   | 76   |       |    |      |  |       |
| RATING        | 40C AMB-CONT  |        |    |         |      |               |      |      |       |    |      |  |       |
| RPM           | 1775          |        |    |         |      | MAX RPM       |      | 2700 |       |    |      |  |       |
| FRAME         | 213T          |        | HZ | 60      |      | CODE          | L    |      | CLASS | H  |      |  |       |
| SER.F.        | 1.25          | SF AMP |    | 24/12   |      |               | PH   | 3    | DES   | A  |      |  |       |
| DE            | 6307          |        |    | ODE     | 6206 |               |      |      |       |    |      |  |       |
| LUBRICATION   | POLYREX EM    |        |    |         |      |               |      |      |       |    |      |  |       |
| ID LOGO       | INVERTER TYPE |        |    |         | VPWM |               | CHP  | 60   |       | TO | 90   |  | 1.5:1 |
| ID LOGO       | WK2           | 1.28   |    | CT      | 6    | TO            | 60   | 10:1 |       |    |      |  |       |
| ID LOGO       | SL HZ         | 0.8    | VT | 3       | TO   | 60            | 20:1 |      |       |    |      |  |       |
|               |               |        |    |         |      |               |      |      |       |    |      |  |       |
|               |               |        |    |         |      |               |      |      |       |    |      |  |       |
|               |               |        |    |         |      |               |      |      |       |    |      |  |       |
|               |               |        |    |         |      |               |      |      |       |    |      |  |       |
|               |               |        |    |         |      |               |      |      |       |    |      |  |       |
|               |               |        |    |         |      |               | QR   |      |       |    |      |  |       |
| YR            |               |        |    |         |      |               |      |      |       |    |      |  |       |

## AC Induction Motor Performance Data

Record # 112285

Typical performance - not guaranteed values

| Winding: 37WGZ668-R004 |    |          | Type: 3752M                              |                     | Enclosure: TEFC         |            |         |
|------------------------|----|----------|------------------------------------------|---------------------|-------------------------|------------|---------|
| Nameplate Data         |    |          | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |         |
| Rated Output (HP)      |    | 7.5      | Full Load Torque                         |                     | 22.15 LB-FT             |            |         |
| Volts                  |    | 230/460  | Start Configuration                      |                     | direct on line          |            |         |
| Full Load Amps         |    | 19.8/9.9 | Breakdown Torque                         |                     | 103 LB-FT               |            |         |
| R.P.M.                 |    | 1775     | Pull-up Torque                           |                     | 44.6 LB-FT              |            |         |
| Hz                     | 60 | Phase    | 3                                        | Locked-rotor Torque |                         | 62.6 LB-FT |         |
| NEMA Design Code       |    | A        | KVA Code                                 | L                   | Starting Current        |            | 102 A   |
| Service Factor (S.F.)  |    | 1.25     | No-load Current                          |                     | 5.4 A                   |            |         |
| NEMA Nom. Eff.         |    | 92.4     | Power Factor                             | 76                  | Line-line Res. @ 25°C   |            | 0.883 Ω |
| Rating - Duty          |    | 40C      | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 44°C    |
| S.F. Amps              |    | 24/12    | Temp. Rise @ S.F. Load                   |                     | 56°C                    |            |         |
|                        |    |          | Locked-rotor Power Factor                |                     | 34.8                    |            |         |
|                        |    |          | Rotor inertia                            |                     | 1.28 lb-ft²             |            |         |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 35   | 56   | 69   | 76   | 80   | 83   | 80   |
| Efficiency      | 86.4 | 91.6 | 92.9 | 93.2 | 92.9 | 92.4 | 92.9 |
| Speed           | 1795 | 1790 | 1785 | 1780 | 1774 | 1769 | 1774 |
| Line amperes    | 5.84 | 6.87 | 8.27 | 9.94 | 11.8 | 13.8 | 11.8 |

ABB Motors and Mechanical Inc.

WINDING # 37WGZ668

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1775 RPM 460 V 3752M

TORQUES (LB-FT): PO=103 PU=44.6 LR=62.6 LRA=102





