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# Customer information packet

## CSPM2506T-G

7.5HP, 1180RPM, 3PH, 60HZ, 254TC, 3950M, OPSB

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | OPSB                                                           |
| Frame                          | 254TC                                                          |
| 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  | 1200 RPM @ 60 HZ                                               |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                             |
| Agency Approvals               | 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              | 11.000 A @ 460.0 V<br>22.000 A @ 230.0 V<br>26.000 A @ 208.0 V |
| Design Code                    | B                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 91.7 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Front Shaft Indicator          | None                                                           |
| Heater Indicator               | No Heater                                                      |
| High Voltage Full Load Amps    | 11.0 a                                                         |

## Part detail

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  | 39E776     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 39WGW951   |
| Layout       | 39LYE776   |
| Eff. date    | 11-19-2025 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#12       |
| Proprietary  | False      |
| Created date | 04-04-2025 |

|                               |                       |
|-------------------------------|-----------------------|
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Duty         |
| KVA Code                      | J                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Max Speed                     | 1800 rpm              |
| Motor Lead Quantity/Wire Size | 9 @ 12 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3950M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 6                     |
| Overall Length                | 23.19 IN              |
| Power Factor                  | 70                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | C-Face                |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| RoHS Status                   | ROHS COMPLIANT        |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.625 IN              |
| Shaft Ground Indicator        | Shaft Grounding       |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 1180 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 #         | CSPM2506T-G   |         |           |      |     | WGT           | 248   | LBS  |       |   |      |  |
| SPEC          | 39E776W951    |         |           |      |     | ENCL          | OPSB  |      |       |   |      |  |
| SER #         |               |         |           |      |     | CC            | 010A  | IP   | 23    |   |      |  |
| HP            | 7.5           | MAG CUR |           |      |     | 11.4/5.7      |       |      |       |   |      |  |
| VOLTS         | 230/460       |         |           |      |     | NEMA NOM. EFF |       |      |       |   | 91.7 |  |
| AMPS          | 22/11         |         |           |      |     |               | PF    | 70   |       |   |      |  |
| RATING        | 40C AMB-CONT  |         |           |      |     |               |       |      |       |   |      |  |
| RPM           | 1180          |         |           |      |     | MAX RPM       |       | 1800 |       |   |      |  |
| FRAME         | 254TC         | HZ      | 60        | CODE |     | J             | CLASS |      | H     |   |      |  |
| SER.F.        | 1.25          | SF AMP  | 26.4/13.2 |      |     |               | PH    | 3    | DES   | B |      |  |
| DE            | 6309          |         | ODE       | 6208 |     |               |       |      |       |   |      |  |
| LUBRICATION   | POLYREX EM    |         |           |      |     |               |       |      |       |   |      |  |
| ID LOGO       | INVERTER TYPE |         | VPWM      |      | CHP | 1.5           | TO    | 1    | 1.5:1 |   |      |  |
| ID LOGO       | WK2           | 4.02    | CT        | 10   | TO  | 1             | 10:1  |      |       |   |      |  |
| ID LOGO       | SL HZ         | 1       | VT        | 20   | TO  | 1             | 20:1  |      |       |   |      |  |
|               |               |         |           |      |     |               |       |      |       |   |      |  |
|               |               |         |           |      |     |               |       |      |       |   |      |  |
|               |               |         |           |      |     |               |       |      |       |   |      |  |
|               |               |         |           |      |     |               |       |      |       |   |      |  |
|               |               |         |           |      |     |               | QR    |      |       |   |      |  |
| YR            |               |         |           |      |     |               |       |      |       |   |      |  |

**AC Induction Motor Performance Data**

Record # 112281

Typical performance - not guaranteed values

| Winding: 39WGW951-R009 |                   | Type: 3950M                              | Enclosure: OPSB         |
|------------------------|-------------------|------------------------------------------|-------------------------|
| Nameplate Data         |                   | 460 V, 60 Hz:<br>High Voltage Connection |                         |
| Rated Output (HP)      | 7.5               | Full Load Torque                         | 33.4 LB-FT              |
| Volts                  | 230/460           | Start Configuration                      | direct on line          |
| Full Load Amps         | 22/11             | Breakdown Torque                         | 98 LB-FT                |
| R.P.M.                 | 1180              | Pull-up Torque                           | 37.9 LB-FT              |
| Hz                     | 60 Phase          | Locked-rotor Torque                      | 50.7 LB-FT              |
| NEMA Design Code       | B KVA Code        | Starting Current                         | 68 A                    |
| Service Factor (S.F.)  | 1.25              | No-load Current                          | 5.73 A                  |
| NEMA Nom. Eff.         | 91.7 Power Factor | Line-line Res. @ 25°C                    | 0.927 Ω                 |
| Rating - Duty          | 40C AMB-CONT      | Temp. Rise @ Rated Load                  | 17°C                    |
| S.F. Amps              | 21.8/10.9         | Temp. Rise @ S.F. Load                   | 22°C                    |
|                        |                   | Locked-rotor Power Factor                | 25.1                    |
|                        |                   | Rotor inertia                            | 4.02 lb-ft <sup>2</sup> |

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

| % of Rated Load | 25   | 50   | 75   | 100   | 125   | 150   | S.F. |
|-----------------|------|------|------|-------|-------|-------|------|
| Power Factor    | 33   | 52   | 64   | 70    | 73    | 73    | 73   |
| Efficiency      | 84.6 | 90.3 | 91.5 | 91.7  | 91.3  | 90.4  | 91.3 |
| Speed           | 1196 | 1192 | 1188 | 1183  | 1178  | 1172  | 1178 |
| Line amperes    | 6.36 | 7.6  | 9.13 | 11.01 | 13.19 | 15.76 | 13.2 |

ABB Motors and Mechanical Inc.

WINDING # 39WGW951

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 3950M

TORQUES (LB-FT): PO=98 PU=37.9 LR=50.7 LRA=68





