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# Customer information packet

## CSPM3546T

1HP, 1770RPM, 3PH, 60HZ, 143TC, 3520M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| Frame                          | 143TC                                                       |
| 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             | 1.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| Agency Approvals               | CURUSEEV<br>NEMA PREMIUM 4<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              | 3.200 A @ 208.0 V<br>3.200 A @ 230.0 V<br>1.600 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 85.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 35E6390    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG004   |
| Layout       | 35LYE6390  |
| Eff. date    | 03-26-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 01-08-2024 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 1.6 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Duty       |
| KVA Code                      | N                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Max Speed                     | 2700 rpm            |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3520M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 13.29 IN            |
| Power Factor                  | 69                  |
| 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                | 0.875 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1770 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 #         | CSPM3546T     |       |        |         |      | WGT           | 37      |    | LBS   |      |      |       |  |
| SPEC          | 35E6390G004   |       |        |         |      | ENCL          | TEFC    |    |       |      |      |       |  |
| SER #         |               |       |        |         |      | CC            | 010A    |    | IP    | 54   |      |       |  |
| HP            | 1             |       |        | MAG CUR |      |               | 2.2/1.1 |    |       |      |      |       |  |
| VOLTS         | 230/460       |       |        |         |      | NEMA NOM. EFF |         |    |       |      | 85.5 |       |  |
| AMPS          | 3.2/1.6       |       |        |         |      |               | PF      | 69 |       |      |      |       |  |
| RATING        | 40C AMB-CONT  |       |        |         |      |               |         |    |       |      |      |       |  |
| RPM           | 1770          |       |        |         |      | MAX RPM       |         |    | 2700  |      |      |       |  |
| FRAME         | 143TC         |       | HZ     | 60      |      | CODE          | N       |    | CLASS | F    |      |       |  |
| SER.F.        | 1.15          |       | SF AMP | 3.4/1.7 |      |               |         | PH | 3     |      | DES  | B     |  |
| DE            | 6205          |       |        | ODE     | 6203 |               |         |    |       |      |      |       |  |
| LUBRICATION   | POLYREX EM    |       |        |         |      |               |         |    |       |      |      |       |  |
| ID LOGO       | INVERTER TYPE |       |        | VPWM    |      | CHP           | 60      |    | TO    | 90   |      | 1.5:1 |  |
| ID LOGO       | WK2           | 0.144 |        | CT      | 6    |               | TO      | 60 |       | 10:1 |      |       |  |
| ID LOGO       | SL HZ         | 1.07  |        | VT      | 3    |               | TO      | 60 |       | 20:1 |      |       |  |
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## AC Induction Motor Performance Data

Record # 91625

Typical performance - not guaranteed values

| Winding: 35WGG004-R001 |    |         | Type: 3520M                              |                     | Enclosure: TEFC         |            |          |
|------------------------|----|---------|------------------------------------------|---------------------|-------------------------|------------|----------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |          |
| Rated Output (HP)      |    | 1       | Full Load Torque                         |                     | 2.982 LB-FT             |            |          |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line          |            |          |
| Full Load Amps         |    | 3.2/1.6 | Breakdown Torque                         |                     | 14.6 LB-FT              |            |          |
| R.P.M.                 |    | 1770    | Pull-up Torque                           |                     | 7.57 LB-FT              |            |          |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                         | 9.17 LB-FT |          |
| NEMA Design Code       |    | B       | KVA Code                                 | N                   | Starting Current        |            | 14.6 A   |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 1.2 A                   |            |          |
| NEMA Nom. Eff.         |    | 85.5    | Power Factor                             | 69                  | Line-line Res. @ 25°C   |            | 16.049 Ω |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 36°C     |
| S.F. Amps              |    | 3.4/1.7 | Temp. Rise @ S.F. Load                   |                     | 41°C                    |            |          |
|                        |    |         | Locked-rotor Power Factor                |                     | 61.549                  |            |          |
|                        |    |         | Rotor inertia                            |                     | 0.144 lb-ft²            |            |          |

## Load Characteristics 460 V, 60 Hz, 1 HP

| % of Rated Load | 25   | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|------|--------|--------|--------|--------|--------|------|
| Power Factor    | 29   | 45     | 58     | 67     | 73     | 78     | 71   |
| Efficiency      | 71.1 | 81.2   | 84.7   | 85.8   | 86     | 85.6   | 85.9 |
| Speed           | 1794 | 1787.3 | 1781.1 | 1774.3 | 1767.4 | 1759.4 | 1770 |
| Line amperes    | 1.22 | 1.31   | 1.46   | 1.64   | 1.86   | 2.11   | 1.77 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG004

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 460 V 3520M

TORQUES (LB-FT): PO=14.6 PU=7.57 LR=9.17 LRA=14.6





