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# Customer information packet

## CSPM3158T

3HP, 3465RPM, 3PH, 60HZ, 145TC, 3540M, OPSB, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | ODP                                                         |
| Frame                          | 145TC                                                       |
| 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            | 460.0 V @ 60 HZ<br>230.0 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              | 6.900 A @ 230.0 V<br>7.900 A @ 208.0 V<br>3.450 A @ 460.0 V |
| Design Code                    | B                                                           |
| 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                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 35E6387    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGZ969   |
| Layout       | 35LYE6387  |
| Eff. date    | 11-19-2025 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 01-05-2024 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 3.5 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Duty       |
| KVA Code                      | K                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Max Speed                     | 5400 rpm            |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3540M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 2                   |
| Overall Length                | 14.38 IN            |
| Power Factor                  | 92                  |
| 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                         | 3465 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 #         | CSPM3158T     |         |           |      |    | WGT           | 64    | LBS |     |       |      |  |
| SPEC          | 35E6387Z969   |         |           |      |    | ENCL          | OPSB  |     |     |       |      |  |
| SER #         |               |         |           |      |    | CC            | 010A  | IP  | 23  |       |      |  |
| HP            | 3             | MAG CUR |           |      |    | 2.18/1.09     |       |     |     |       |      |  |
| VOLTS         | 230/460       |         |           |      |    | NEMA NOM. EFF |       |     |     |       | 88.5 |  |
| AMPS          | 6.9/3.45      |         |           |      |    |               | PF    | 92  |     |       |      |  |
| RATING        | 40C AMB-CONT  |         |           |      |    |               |       |     |     |       |      |  |
| RPM           | 3465          |         |           |      |    | MAX RPM       | 5400  |     |     |       |      |  |
| FRAME         | 145TC         | HZ      | 60        | CODE |    | K             | CLASS |     | F   |       |      |  |
| SER.F.        | 1.15          | SF AMP  | 7.96/3.98 |      |    |               | 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           | 0.11    | CT        | 6    | TO | 60            | 10:1  |     |     |       |      |  |
| ID LOGO       | SL HZ         | 2.25    | VT        | 3    | TO | 60            | 20:1  |     |     |       |      |  |
|               |               |         |           |      |    |               |       |     |     |       |      |  |
|               |               |         |           |      |    |               |       |     |     |       |      |  |
|               |               |         |           |      |    |               |       |     |     |       |      |  |
|               |               |         |           |      |    |               |       |     |     |       |      |  |
|               |               |         |           |      |    |               |       |     |     |       |      |  |
|               |               |         |           |      |    |               | QR    |     |     |       |      |  |
| YR            |               |         |           |      |    |               |       |     |     |       |      |  |

## AC Induction Motor Performance Data

Record # 100814

Preliminary Data Sheet

| Winding: 35WGZ969-R002 |    |           | Type: 3540M                              |                     | Enclosure: ODP          |            |        |
|------------------------|----|-----------|------------------------------------------|---------------------|-------------------------|------------|--------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |        |
| Rated Output (HP)      |    | 3         | Full Load Torque                         |                     | 4.53 lb-ft              |            |        |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line          |            |        |
| Full Load Amps         |    | 6.9/3.45  | Breakdown Torque                         |                     | 21.4 lb-ft              |            |        |
| R.P.M.                 |    | 3465      | Pull-up Torque                           |                     | 12.2 lb-ft              |            |        |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                         | 19.3 lb-ft |        |
| NEMA Design Code       |    | B         | KVA Code                                 | K                   | Starting Current        |            | 34.6 A |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 1.29 A                  |            |        |
| NEMA Nom. Eff.         |    | 88.5      | Power Factor                             | 92                  | Line-line Res. @ 25°C   |            | 4.7 Ω  |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 32°C   |
| S.F. Amps              |    | 7.96/3.98 | Temp. Rise @ S.F. Load                   |                     | 68°C                    |            |        |
|                        |    |           | Locked-rotor Power Factor                |                     | 42.1                    |            |        |
|                        |    |           | Rotor inertia                            |                     | 0.0885 lb-ft²           |            |        |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 60   | 79   | 86   | 90   | 92   | 92   | 91   |
| Efficiency      | 74   | 82.8 | 85.4 | 86   | 85.7 | 84.8 | 85.8 |
| Speed           | 3568 | 3541 | 3513 | 3483 | 3450 | 3414 | 3463 |
| Line amperes    | 1.6  | 2.16 | 2.86 | 3.63 | 4.48 | 5.39 | 4.14 |

ABB Motors and Mechanical Inc.

WINDING # 35WGZ969

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3465 RPM 460 V 3540M

TORQUES(lb-ft): PO=21.4 PU=12.2 LR=19.3 LRA=34.6





