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# Customer information packet

## CSWDM3541

.75HP, 3450RPM, 3PH, 60HZ, 56C, 3518M, TENV, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TENV                                                        |
| Frame                          | 56C                                                         |
| Frame Material                 | Stainless Steel                                             |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | None                                                        |
| Haz Area Division              | Not Applicable                                              |
| Motor Letter Type              | Three Phase                                                 |
| Output @ Frequency             | .750 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<br>208.0 V @ 60 HZ       |
| Agency Approvals               | CSA<br>UR                                                   |
| 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              | 2.300 A @ 208.0 V<br>2.200 A @ 230.0 V<br>1.100 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 80.0 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Face Code                | Standard                                                    |
| Front Shaft Indicator          | None                                                        |

## Part detail

|              |            |
|--------------|------------|
| Revision     | Q          |
| Type         | AC         |
| Mech. spec.  | 35S630     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGT097   |
| Layout       | 35LYS630   |
| Eff. date    | 09-11-2023 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 02-19-2010 |

|                               |                      |
|-------------------------------|----------------------|
| Heater Indicator              | No Heater            |
| High Voltage Full Load Amps   | 1.1 a                |
| Insulation Class              | F                    |
| Inverter Code                 | Not Inverter         |
| KVA Code                      | N                    |
| Lifting Lugs                  | No Lifting Lugs      |
| Locked Bearing Indicator      | Locked Bearing       |
| Motor Lead Exit               | Ko Box               |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG           |
| Motor Lead Termination        | Flying Leads         |
| Motor Standards               | NEMA                 |
| Motor Type                    | 3518M                |
| Mounting Arrangement          | F1                   |
| Number of Poles               | 2                    |
| Overall Length                | 11.06 IN             |
| Power Factor                  | 80                   |
| Product Family                | Wash Down Paint Free |
| Pulley End Bearing Type       | Sealed Bearing       |
| Pulley Face Code              | C-Face               |
| Pulley Shaft Indicator        | Standard             |
| Rodent Screen                 | None                 |
| RoHS Status                   | ROHS COMPLIANT       |
| Service Factor                | 1.25                 |
| Shaft Diameter                | 0.625 IN             |
| Shaft Extension Location      | Pulley End           |
| Shaft Ground Indicator        | No Shaft Grounding   |
| Shaft Rotation                | Reversible           |
| Shaft Slinger Indicator       | No Slinger           |
| Speed                         | 3450 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

| NP1496L      |                 |      |     |      |   |       |   |  |  |
|--------------|-----------------|------|-----|------|---|-------|---|--|--|
| CAT.NO.      | CSWDM3541       |      |     |      |   |       |   |  |  |
| SPEC.        | 35S630T097G1    |      |     |      |   |       |   |  |  |
| HP           | .75             |      |     |      |   |       |   |  |  |
| VOLTS        | 208-230/460     |      |     |      |   |       |   |  |  |
| AMP          | 2.3-2.2/1.1     |      |     |      |   |       |   |  |  |
| RPM          | 3450            |      |     |      |   |       |   |  |  |
| FRAME        | 56C             |      | HZ  | 60   |   | PH    | 3 |  |  |
| SER.F.       | 1.25            | CODE | N   | DES  | B | CLASS | F |  |  |
| NEMA-NOM-EFF | 80              | PF   | 80  |      |   |       |   |  |  |
| RATING       | 40C AMB-CONT    |      |     |      |   |       |   |  |  |
| CC           |                 |      |     |      |   |       |   |  |  |
| DE           | 6205            |      | ODE | 6203 |   |       |   |  |  |
| ENCL         | TENV            | SN   |     |      |   |       |   |  |  |
|              | SFA 2.8-2.6/1.3 |      |     |      |   |       |   |  |  |

**AC Induction Motor Performance Data**

Record # 36638

Typical performance - not guaranteed values

| Winding: 35WGT097-R002 |    |             | Type: 3518M                              |                     | Enclosure: TENV         |                       |        |        |
|------------------------|----|-------------|------------------------------------------|---------------------|-------------------------|-----------------------|--------|--------|
| Nameplate Data         |    |             | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |                       |        |        |
| Rated Output (HP)      |    | .75         | Full Load Torque                         |                     | 1.1 LB-FT               |                       |        |        |
| Volts                  |    | 208-230/460 | Start Configuration                      |                     | direct on line          |                       |        |        |
| Full Load Amps         |    | 2.3-2.2/1.1 | Breakdown Torque                         |                     | 7.6 LB-FT               |                       |        |        |
| R.P.M.                 |    | 3450        | Pull-up Torque                           |                     | 4.1 LB-FT               |                       |        |        |
| Hz                     | 60 | Phase       | 3                                        | Locked-rotor Torque |                         | 5.6 LB-FT             |        |        |
| NEMA Design Code       |    | B           | KVA Code                                 | N                   | Starting Current        |                       | 11.7 A |        |
| Service Factor (S.F.)  |    | 1.25        | No-load Current                          |                     | 0.61 A                  |                       |        |        |
| NEMA Nom. Eff.         |    | 80          | Power Factor                             |                     | 80                      | Line-line Res. @ 25°C |        | 15.3 Ω |
| Rating - Duty          |    | 40C         | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |                       | 65°C   |        |
| S.F. Amps              |    | 2.8-2.6/1.3 | Temp. Rise @ S.F. Load                   |                     | 76°C                    |                       |        |        |
|                        |    |             | Locked-rotor Power Factor                |                     | 58                      |                       |        |        |
|                        |    |             | Rotor inertia                            |                     | 0.0498 LB-FT2           |                       |        |        |

**Load Characteristics 460 V, 60 Hz, 0.75 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 42   | 61   | 72   | 78   | 81   | 82   | 81   |
| Efficiency      | 62.6 | 74.5 | 78.8 | 80.4 | 81   | 80.1 | 81   |
| Speed           | 3571 | 3536 | 3509 | 3477 | 3444 | 3406 | 3444 |
| Line amperes    | 0.66 | 0.76 | 0.91 | 1.09 | 1.29 | 1.52 | 1.29 |

ABB Motors and Mechanical Inc.

WINDING # 35WGT097

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3518M

TORQUES (LB-FT): PO=7.6 PU=4.1 LR=5.6 LRA=11.7





