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# Customer information packet

## EJMM2534T

30HP, 3510RPM, 3PH, 60HZ, 284JM, 3948M, OPSB, F

Class -

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | OPSB                                                           |
| Frame                          | 284JM                                                          |
| Frame Material                 | Steel                                                          |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Division              | Not Applicable                                                 |
| Motor Letter Type              | Three Phase                                                    |
| Output @ Frequency             | 30.000 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               | CSA EEV<br>UR<br>CSA                                           |
| 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              | 33.000 A @ 460.0 V<br>66.000 A @ 230.0 V<br>74.000 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 Face Code                | Standard                                                       |
| Front Shaft Indicator          | None                                                           |
| Heater Indicator               | No Heater                                                      |

## Part detail

|              |            |
|--------------|------------|
| Revision     | U          |
| Type         | AC         |
| Mech. spec.  | 39E312     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 39WGX286   |
| Layout       | 39LYE312   |
| Eff. date    | 06-26-2024 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#8        |
| Proprietary  | False      |
| Created date | 06-22-2009 |

|                               |                       |
|-------------------------------|-----------------------|
| High Voltage Full Load Amps   | 33.0 a                |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | F                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 9 @ 8 AWG             |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3948M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 2                     |
| Overall Length                | 26.56 IN              |
| Power Factor                  | 92                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | C-Face                |
| Pulley Shaft Indicator        | Tapped & Key          |
| Rodent Screen                 | Included              |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.375 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 3510 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

| NP2138LUA    |                           |    |    |          |        |     |            |         |           |      |        |      |
|--------------|---------------------------|----|----|----------|--------|-----|------------|---------|-----------|------|--------|------|
| CAT.NO.      | EJMM2534T                 |    |    | P/N      |        |     |            |         | ENCLOSURE |      |        | OPSB |
| SPEC.        | 39E312X286                |    | CC | 010A     | FRAME  |     | 284JM      |         | S/N       |      |        |      |
| HP           | 30                        |    |    | CLASS    |        | F   | HZ         |         | 60        |      |        |      |
| RPM          | 3510                      |    |    | PH       | 3      | DES |            | B       |           |      |        |      |
| VOLT         | 230/460                   |    |    | KVA-CODE |        |     | F          | ODE BRG |           | 6208 | DE BRG | 6312 |
| AMP          | 66/33                     |    |    |          |        |     |            |         |           |      |        |      |
| RATING       | 40C AMB-CONT              |    |    |          | GREASE |     | POLYREX EM |         |           |      |        |      |
| NEMA-NOM-EFF | 91.7                      | PF | 92 | SER.F.   | 1.15   |     |            |         |           |      |        |      |
|              | 50HZ 30HP 190/380V 82/41A |    |    |          |        |     | SF1.0      |         |           |      |        |      |
| HTR-VOLTS    | HTR-AMPS                  |    |    |          |        |     |            |         |           |      |        |      |

## AC Induction Motor Performance Data

Record # 13125

Typical performance - not guaranteed values

| Winding: 39WGX286-R001 |  |              |  | Type: 3948M                              |  | Enclosure: OPSB     |  |                       |  |         |  |
|------------------------|--|--------------|--|------------------------------------------|--|---------------------|--|-----------------------|--|---------|--|
| Nameplate Data         |  |              |  | 460 V, 60 Hz:<br>High Voltage Connection |  |                     |  |                       |  |         |  |
| Rated Output (HP)      |  | 30           |  | Full Load Torque                         |  | 45 LB-FT            |  |                       |  |         |  |
| Volts                  |  | 230/460      |  | Start Configuration                      |  | direct on line      |  |                       |  |         |  |
| Full Load Amps         |  | 66/33        |  | Breakdown Torque                         |  | 148 LB-FT           |  |                       |  |         |  |
| R.P.M.                 |  | 3510         |  | Pull-up Torque                           |  | 53 LB-FT            |  |                       |  |         |  |
| Hz                     |  | 60 Phase     |  | 3                                        |  | Locked-rotor Torque |  | 67.5 LB-FT            |  |         |  |
| NEMA Design Code       |  | B            |  | KVA Code                                 |  | F                   |  | Starting Current      |  | 207 A   |  |
| Service Factor (S.F.)  |  | 1.15         |  | No-load Current                          |  | 7.51 A              |  |                       |  |         |  |
| NEMA Nom. Eff.         |  | 91.7         |  | Power Factor                             |  | 92                  |  | Line-line Res. @ 25°C |  | 0.342 Ω |  |
| Rating - Duty          |  | 40C AMB-CONT |  | Temp. Rise @ Rated Load                  |  | 38°C                |  |                       |  |         |  |
| S.F. Amps              |  |              |  | Temp. Rise @ S.F. Load                   |  | 48°C                |  |                       |  |         |  |
|                        |  |              |  | Locked-rotor Power Factor                |  | 28                  |  |                       |  |         |  |
|                        |  |              |  | Rotor inertia                            |  | 1.23 LB-FT2         |  |                       |  |         |  |

## Load Characteristics 460 V, 60 Hz, 30 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F.  |
|-----------------|------|------|------|------|------|------|-------|
| Power Factor    | 70   | 87   | 91   | 92   | 92   | 92   | 92    |
| Efficiency      | 89.4 | 92.5 | 92.6 | 91.8 | 90.7 | 89   | 91.1  |
| Speed           | 3577 | 3555 | 3531 | 3505 | 3478 | 3443 | 3489  |
| Line amperes    | 10.9 | 17.2 | 24.9 | 33.1 | 41.7 | 51.8 | 38.26 |

ABB Motors and Mechanical Inc.

WINDING # 39WGX286

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 3510 RPM 460 V 3948M

TORQUES (LB-FT): PO=148 PU=53 LR=67.5 LRA=207





