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# Customer information packet

## VJPFPM2535T

30//25HP, 1770//1470RPM, 3PH, 60//50HZ, 286J

## Specifications

|                                |                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------|
| Enclosure                      | OPSB                                                                                 |
| Frame                          | 286JP                                                                                |
| Frame Material                 | Steel                                                                                |
| Frequency                      | 50.00 Hz<br>60.00 Hz                                                                 |
| Motor Letter Type              | Three Phase                                                                          |
| Output @ Frequency             | 30.000 HP @ 60 HZ<br>25.000 HP @ 50 HZ                                               |
| Phase                          | 3                                                                                    |
| Synchronous Speed @ Frequency  | 1500 RPM @ 50 HZ                                                                     |
| Voltage @ Frequency            | 190.0 V @ 50 HZ<br>230.0 V @ 60 HZ<br>380.0 V @ 50 HZ<br>460.0 V @ 60 HZ             |
| Agency Approvals               | CSA EEV<br>UL                                                                        |
| Ambient Temperature            | 40 °C                                                                                |
| Auxiliary Box                  | NO AUXILLARY BOX                                                                     |
| Auxiliary Box Lead Termination | None                                                                                 |
| Base Indicator                 | No Mounting                                                                          |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                                              |
| Blower                         | None                                                                                 |
| Current @ Voltage              | 72.000 A @ 230.0 V<br>72.000 A @ 190.0 V<br>36.000 A @ 460.0 V<br>36.000 A @ 380.0 V |
| Design Code                    | B                                                                                    |
| Drip Cover                     | Drip Cover                                                                           |
| Duty Rating                    | CONT                                                                                 |
| Efficiency @ 100% Load         | 92.4 %                                                                               |
| Electrically Isolated Bearing  | Not Electrically Isolated                                                            |
| Feedback Device                | NO FEEDBACK                                                                          |

## Part detail

|              |            |
|--------------|------------|
| Revision     | J          |
| Type         | AC         |
| Mech. spec.  | 40E282     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 40WGX324   |
| Layout       | 40LYE282   |
| Eff. date    | 08-01-2023 |
| CD Diagram   | CD0104     |
| Poles        | 04         |
| Leads        | 12#10      |
| Proprietary  | False      |
| Created date | 01-13-2016 |

|                               |                       |
|-------------------------------|-----------------------|
| Front Face Code               | Drip Cover Mounting   |
| Front Shaft Indicator         | None                  |
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 36.0 a                |
| Insulation Class              | F                     |
| Inverter Code                 | Not Inverter          |
| KVA Code                      | G                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 12 @ 10 AWG           |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 4052M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 29.25 IN              |
| Power Factor                  | 84                    |
| Product Family                | Fire Pump Motor       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | C-Face                |
| Pulley Shaft Indicator        | Tapped & Key          |
| Rodent Screen                 | Included              |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.750 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 1470 rpm<br>1770 rpm  |
| Speed Code                    | Single Speed          |
| Starting Method               | Wye Start - Delta Run |
| Thermal Device - Bearing      | None                  |

|                            |                     |
|----------------------------|---------------------|
| Thermal Device - Winding   | None                |
| Vibration Sensor Indicator | No Vibration Sensor |
| Winding Thermal 1          | None                |
| Winding Thermal 2          | None                |

## Nameplate

| NP3454L   |              |        |      |  |           |      |  |       |         |          |            |      |       |     |      |
|-----------|--------------|--------|------|--|-----------|------|--|-------|---------|----------|------------|------|-------|-----|------|
| CAT.NO.   | VJPFPM2535T  |        |      |  | CUST P/N  |      |  |       | I.P.    |          |            |      | 23    |     |      |
| SPEC.     | 40E282X324H2 |        |      |  | SER.NO.   |      |  |       | FRAME   |          |            |      | 286JP |     |      |
| HZ        | 60           | HP     | 30   |  | RPM       | 1770 |  | HZ    | 50      |          | HP         | 25   |       | RPM | 1470 |
| VOLTS     | 230/460      |        |      |  | CODE      | G    |  | VOLTS | 190/380 |          |            |      | CODE  | F   |      |
| AMPS      | 72/36        |        |      |  | DES       | B    |  | AMPS  | 72/36   |          |            |      | DES   | B   |      |
| EFF       | 92.4         | SER.F. | 1.15 |  | PF        | 84   |  | EFF   | 92.4    |          | SER.F.     | 1.15 |       | PF  | 84   |
| RATING    | 40C AMB-CONT |        |      |  | DE BRG    | 6312 |  |       |         | GREASE   | POLYREX EM |      |       |     |      |
| BLANK     |              |        |      |  | ODE BRG   | 6309 |  |       |         | MTR. WT. | 375        |      |       |     |      |
|           |              |        |      |  | CLASS     | F    |  | PH    | 3       |          |            |      |       |     |      |
|           |              |        |      |  | ENCL      | OPSB |  | CC    | 010A    |          |            |      |       |     |      |
|           |              |        |      |  |           |      |  |       |         |          |            |      |       |     |      |
| HTR-VOLTS | HTR-AMPS     |        |      |  | HTR-WATTS |      |  |       |         |          |            |      |       |     |      |

**AC Induction Motor Performance Data**

Record # 54887

Typical performance - not guaranteed values

| Winding: 40WGX324-R001 |                  | Type: 4052M                              | Enclosure: OPEN |
|------------------------|------------------|------------------------------------------|-----------------|
| Nameplate Data         |                  | 460 V, 60 Hz:<br>High Voltage Connection |                 |
| Rated Output (HP)      | 30//25           | Full Load Torque                         | 89.5 LB-FT      |
| Volts                  | 230/460//190/380 | Start Configuration                      | direct on line  |
| Full Load Amps         | 72/36            | Breakdown Torque                         | 258 LB-FT       |
| R.P.M.                 | 1770//1470       | Pull-up Torque                           | 113 LB-FT       |
| Hz                     | 60//50           | Locked-rotor Torque                      | 143 LB-FT       |
| NEMA Design Code       | B                | Starting Current                         | 211 A           |
| Service Factor (S.F.)  | 1.15             | No-load Current                          | 13 A            |
| NEMA Nom. Eff.         | 92.4             | Line-line Res. @ 25°C                    | 0.26526 Ω       |
| Rating - Duty          | 40C AMB-CONT     | Temp. Rise @ Rated Load                  | 32°C            |
| S.F. Amps              |                  | Temp. Rise @ S.F. Load                   | 40°C            |
|                        |                  | Locked-rotor Power Factor                | 31.4            |

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

| % of Rated Load | 25     | 50     | 75   | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|------|--------|--------|--------|------|
| Power Factor    | 51     | 72     | 80   | 84     | 85     | 85     | 85   |
| Efficiency      | 90.4   | 93.4   | 93.9 | 93.6   | 92.8   | 91.9   | 93.1 |
| Speed           | 1792.8 | 1786.6 | 1780 | 1773.1 | 1765.1 | 1756.4 | 1768 |
| Line amperes    | 15.6   | 20.9   | 27.9 | 35.9   | 44.5   | 53.9   | 41.1 |

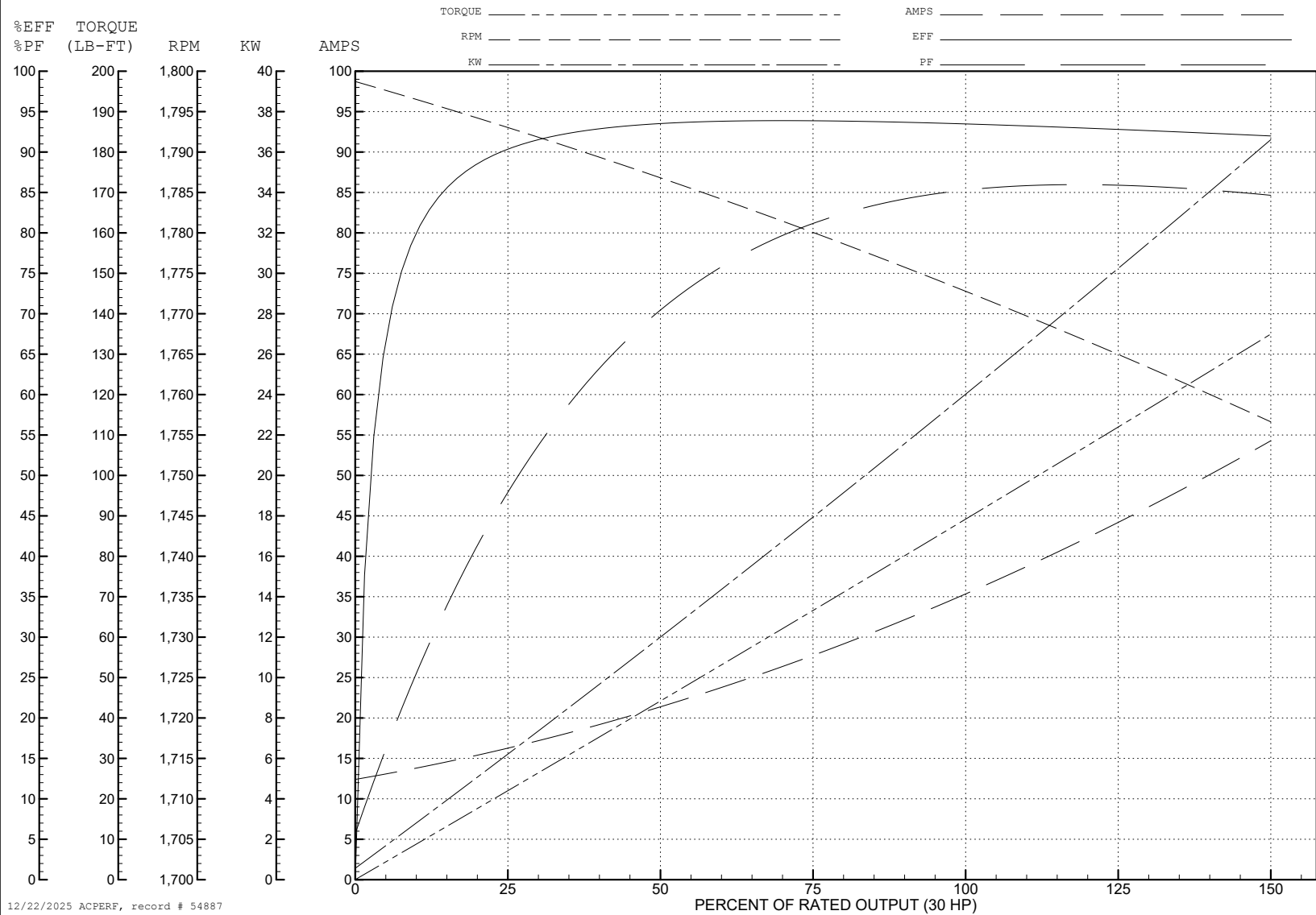
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WINDING # 40WGX324

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1773.1 RPM 460 V 4052M

TORQUES (LB-FT): PO=258 PU=113 LR=143 LRA=211



## AC Induction Motor Performance Data

Record # 54888

Typical performance - not guaranteed values

| Winding: 40WGX324-R001 |        |                  | Type: 4052M                              |                     | Enclosure: OPEN           |                       |             |         |
|------------------------|--------|------------------|------------------------------------------|---------------------|---------------------------|-----------------------|-------------|---------|
| Nameplate Data         |        |                  | 380 V, 50 Hz:<br>High Voltage Connection |                     |                           |                       |             |         |
| Rated Output (HP)      |        | 30//25           | Full Load Torque                         |                     | 89.8 LB-FT                |                       |             |         |
| Volts                  |        | 230/460//190/380 | Start Configuration                      |                     | direct on line            |                       |             |         |
| Full Load Amps         |        | 72/36            | Breakdown Torque                         |                     | 250 LB-FT                 |                       |             |         |
| R.P.M.                 |        | 1770//1470       | Pull-up Torque                           |                     | 116 LB-FT                 |                       |             |         |
| Hz                     | 60//50 | Phase            | 3                                        | Locked-rotor Torque |                           | 147 LB-FT             |             |         |
| NEMA Design Code       |        | B                | KVA Code                                 | G                   | Starting Current          |                       | 201 A       |         |
| Service Factor (S.F.)  |        | 1.15             | No-load Current                          |                     | 12.7 A                    |                       |             |         |
| NEMA Nom. Eff.         |        | 92.4             | Power Factor                             |                     | 84                        | Line-line Res. @ 25°C |             | 0.261 Ω |
| Rating - Duty          |        | 40C              | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |                       | 33°C        |         |
| S.F. Amps              |        |                  |                                          |                     | Temp. Rise @ S.F. Load    |                       | 41°C        |         |
|                        |        |                  |                                          |                     | Locked-rotor Power Factor |                       | 34.8        |         |
|                        |        |                  |                                          |                     | Rotor inertia             |                       | 4.14 LB-FT2 |         |

## Load Characteristics 380 V, 50 Hz, 25 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 53   | 73   | 81   | 85   | 86   | 85   | 86   |
| Efficiency      | 89.8 | 92.7 | 93.1 | 92.7 | 92.2 | 90.7 | 92.4 |
| Speed           | 1493 | 1487 | 1480 | 1472 | 1464 | 1455 | 1467 |
| Line amperes    | 15.4 | 20.8 | 28   | 36.3 | 45.2 | 55.2 | 41.6 |

ABB Motors and Mechanical Inc.

WINDING # 40WGX324

Typical performance - not guaranteed values.

25 HP 3 PH 50 HZ 1472 RPM 380 V 4052M

TORQUES (LB-FT): PO=250 PU=116 LR=147 LRA=201

