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# Customer information packet

## XM18322T

22M 2P XPFC HOR 182T T'STATS INVERTER

Class - CLI GP D; CLII GP F,G

Division - Division I

## Specifications

|                                |                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------|
| Enclosure                      | XPFC                                                                                                  |
| Frame                          | 182T                                                                                                  |
| Frame Material                 | Steel                                                                                                 |
| Frequency                      | 50.00 Hz<br>60.00 Hz                                                                                  |
| Haz Area Class and Group       | CLI GP D; CLII GP F,G                                                                                 |
| Haz Area Division              | Division I                                                                                            |
| Motor Letter Type              | Three Phase                                                                                           |
| Output @ Frequency             | 3.000 HP @ 60 HZ<br>2.000 HP @ 50 HZ                                                                  |
| Phase                          | 3                                                                                                     |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 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                                                                                                 |
| Auxillary Box                  | No Auxillary Box                                                                                      |
| Auxillary Box Lead Termination | None                                                                                                  |
| Base Indicator                 | Rigid                                                                                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                                                               |
| Blower                         | None                                                                                                  |
| Constant Torque Speed Range    | 2.5                                                                                                   |
| Current @ Voltage              | 3.000 A @ 380.0 V<br>3.700 A @ 460.0 V<br>6.000 A @ 190.0 V<br>7.400 A @ 230.0 V<br>8.000 A @ 208.0 V |
| Design Code                    | A                                                                                                     |
| Drip Cover                     | No Drip Cover                                                                                         |

## Part detail

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 36R726     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGS041   |
| Layout       | 36LYR726   |
| Eff. date    | 01-14-2025 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 12-19-2018 |

|                               |                           |
|-------------------------------|---------------------------|
| Duty Rating                   | CONT                      |
| Efficiency @ 100% Load        | 86.5 %                    |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Feedback Device               | NO FEEDBACK               |
| Front Shaft Indicator         | None                      |
| Haz Area Temp Code            | T3C                       |
| Heater Indicator              | No Heater                 |
| High Voltage Full Load Amps   | 3.0 a                     |
| Insulation Class              | F                         |
| Inverter Code                 | Inverter Duty             |
| IP Rating                     | NONE                      |
| KVA Code                      | K                         |
| Lifting Lugs                  | No Lifting Lugs           |
| Locked Bearing Indicator      | No Locked Bearing         |
| Max Speed                     | 5400 rpm                  |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG                |
| Motor Lead Termination        | Flying Leads              |
| Motor Standards               | NEMA                      |
| Motor Type                    | X3622M                    |
| Mounting Arrangement          | F1                        |
| Number of Poles               | 2                         |
| Overall Length                | 17.42 IN                  |
| Power Factor                  | 91                        |
| Product Family                | General Purpose           |
| Pulley End Bearing Type       | Ball                      |
| Pulley Face Code              | Standard                  |
| Pulley Shaft Indicator        | Standard                  |
| Rodent Screen                 | None                      |
| RoHS Status                   | ROHS NON-COMPLIANT        |
| Service Factor                | 1.00                      |
| Shaft Diameter                | 1.125 IN                  |
| Shaft Ground Indicator        | No Shaft Grounding        |
| Shaft Rotation                | Reversible                |
| Shaft Slinger Indicator       | No Slinger                |

|                                   |                            |
|-----------------------------------|----------------------------|
| <b>Speed</b>                      | 2890 rpm                   |
|                                   | 3450 rpm                   |
| <b>Speed Code</b>                 | Single Speed               |
| <b>Starting Method</b>            | Direct on line             |
| <b>Thermal Device - Bearing</b>   | None                       |
| <b>Thermal Device - Winding</b>   | Normally Closed Thermostat |
| <b>Vibration Sensor Indicator</b> | No Vibration Sensor        |
| <b>Winding Thermal 1</b>          | None                       |
| <b>Winding Thermal 2</b>          | None                       |

## Nameplate

| NP0887XPSLEV |                             |        |   |              |                  |            |      |         |          |    |  |
|--------------|-----------------------------|--------|---|--------------|------------------|------------|------|---------|----------|----|--|
| NO.          |                             |        |   |              |                  | CC         | 010A |         |          |    |  |
| S/N          |                             |        |   |              |                  | TEMP CODE  | T3C  |         |          |    |  |
| SPEC.        | 36R726S041G1                |        |   |              |                  | INV.TYPE   | PWM  |         |          |    |  |
| CAT.NO.      | XM18322T                    |        |   |              |                  | C HP FR    | 60   | C HP TO | 90       |    |  |
| HP           | 3//2                        |        |   |              |                  | CT HZ FROM | 2.5  |         | CT HZ TO | 60 |  |
| VOLTS        | 230/460//190/380            |        |   |              |                  | VT HZ FROM | 2.5  |         | VT HZ TO | 60 |  |
| AMPS         | 7.4/3.7//6/3                |        |   |              | MAG CUR          | 2.4/1.2    |      |         |          |    |  |
| RPM          | 3450//2890                  |        |   |              | MX RPM           | 5400       |      |         |          |    |  |
| HZ           | 60//50                      | PH     | 3 | CL           | F                | NOM.EFF.   | 86.5 |         |          |    |  |
| SER.F.       | 1.00                        | DES    | A | SL HZ        | 2.5              | WK2        | 0.1  |         |          |    |  |
| FRAME        | 182T                        | RATING |   | 40C AMB-CONT |                  |            |      |         |          |    |  |
|              | 55C AMB AT 1.00 SF SINEWAVE |        |   |              |                  |            |      |         |          |    |  |
|              | NEMA MG-1 PART 5, IP54      |        |   |              | 1.15 SF SINEWAVE |            |      |         |          |    |  |
|              |                             |        |   |              |                  |            |      |         |          |    |  |

**AC Induction Motor Performance Data**

Record # 73670

Typical performance - not guaranteed values

| Winding: 36WGS041-R041 |                  | Type: 3622M                              | Enclosure: XPFC           |                       |            |               |
|------------------------|------------------|------------------------------------------|---------------------------|-----------------------|------------|---------------|
| Nameplate Data         |                  | 460 V, 60 Hz:<br>High Voltage Connection |                           |                       |            |               |
| Rated Output (HP)      | 3//2             | Full Load Torque                         | 4.7 LB-FT                 |                       |            |               |
| Volts                  | 230/460//190/380 | Start Configuration                      | direct on line            |                       |            |               |
| Full Load Amps         | 7.4/3.7//6/3     | Breakdown Torque                         | 19.7 LB-FT                |                       |            |               |
| R.P.M.                 | 3450//2890       | Pull-up Torque                           | 12 LB-FT                  |                       |            |               |
| Hz                     | 60//50           | Phase                                    | 3                         | Locked-rotor Torque   | 14.1 LB-FT |               |
| NEMA Design Code       | A                | KVA Code                                 | K                         | Starting Current      | 33.3 A     |               |
| Service Factor (S.F.)  | 1                | No-load Current                          | 1.17 A                    |                       |            |               |
| NEMA Nom. Eff.         | 86.5             | Power Factor                             | 91                        | Line-line Res. @ 25°C | 4.71 Ω     |               |
| Rating - Duty          | 40C              | AMB-CONT                                 | Temp. Rise @ Rated Load   |                       |            | 52°C          |
|                        |                  |                                          | Locked-rotor Power Factor |                       |            | 48.4          |
|                        |                  |                                          | Rotor inertia             |                       |            | 0.0984 LB-FT2 |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 66   | 82   | 88   | 91   | 92   | 93   |
| Efficiency      | 80.3 | 86   | 87.3 | 86.9 | 86   | 84.5 |
| Speed           | 3565 | 3535 | 3504 | 3472 | 3434 | 3394 |
| Line amperes    | 1.56 | 2.17 | 2.93 | 3.67 | 4.57 | 5.5  |

ABB Motors and Mechanical Inc.

WINDING # 36WGS041

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3472 RPM 460 V 3622M

TORQUES (LB-FT): PO=19.7 PU=12 LR=14.1 LRA=33.3





