



---

# Customer information packet

## SPJPM3154T

1.5HP, 1770RPM, 3PH, 60HZ, 145JP, 3528M, OPSB

Class - None

Division - Not Applicable

## Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | OPSB                                   |
| Frame                          | 145JP                                  |
| 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             | 1.500 HP @ 60 HZ                       |
| Phase                          | 3                                      |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                       |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ     |
| Agency Approvals               | WEEE<br>NEMA PREMIUM                   |
| 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              | 2.250 A @ 460.0 V<br>4.500 A @ 230.0 V |
| Design Code                    | B                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 87.5 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Front Shaft Indicator          | None                                   |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 2.3 a                                  |
| Insulation Class               | F                                      |

## Part detail

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  | 35EE459    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGZ964   |
| Layout       | 35LYEE459  |
| Eff. date    | 11-19-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 08-08-2025 |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Inverter Code</b>                 | <b>Inverter Duty</b>       |
| <b>KVA Code</b>                      | <b>M</b>                   |
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b>     |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>      |
| <b>Max Speed</b>                     | <b>2700 rpm</b>            |
| <b>Motor Lead Quantity/Wire Size</b> | <b>9 @ 18 AWG</b>          |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>        |
| <b>Motor Standards</b>               | <b>NEMA</b>                |
| <b>Motor Type</b>                    | <b>3528M</b>               |
| <b>Mounting Arrangement</b>          | <b>F1</b>                  |
| <b>Number of Poles</b>               | <b>4</b>                   |
| <b>Overall Length</b>                | <b>17.32 IN</b>            |
| <b>Power Factor</b>                  | <b>72</b>                  |
| <b>Product Family</b>                | <b>General Purpose</b>     |
| <b>Pulley End Bearing Type</b>       | <b>Ball</b>                |
| <b>Pulley Face Code</b>              | <b>C-Face</b>              |
| <b>Pulley Shaft Indicator</b>        | <b>Tapped &amp; Key</b>    |
| <b>Rodent Screen</b>                 | <b>Included</b>            |
| <b>RoHS Status</b>                   | <b>ROHS COMPLIANT</b>      |
| <b>Service Factor</b>                | <b>1.25</b>                |
| <b>Shaft Diameter</b>                | <b>0.875 IN</b>            |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b>  |
| <b>Shaft Rotation</b>                | <b>Reversible</b>          |
| <b>Shaft Slinger Indicator</b>       | <b>Shaft Slinger</b>       |
| <b>Speed</b>                         | <b>1770 rpm</b>            |
| <b>Speed Code</b>                    | <b>Single Speed</b>        |
| <b>Starting Method</b>               | <b>Direct on line</b>      |
| <b>Thermal Device - Bearing</b>      | <b>None</b>                |
| <b>Thermal Device - Winding</b>      | <b>None</b>                |
| <b>Vibration Sensor Indicator</b>    | <b>No Vibration Sensor</b> |
| <b>Winding Thermal 1</b>             | <b>None</b>                |
| <b>Winding Thermal 2</b>             | <b>None</b>                |

## Nameplate

| NP4423A01A01L |               |         |           |      |      |               |      |       |      |    |       |  |  |
|---------------|---------------|---------|-----------|------|------|---------------|------|-------|------|----|-------|--|--|
| CAT #         | SPJPM3154T    |         |           |      |      | WGT           | 45   | LBS   |      |    |       |  |  |
| SPEC          | 35EE459Z964   |         |           |      |      | ENCL          | OPSB |       |      |    |       |  |  |
| SER #         |               |         |           |      |      | CC            | 010A | IP    | 23   |    |       |  |  |
| HP            | 1.5           | MAG CUR |           |      |      | 1.45          |      |       |      |    |       |  |  |
| VOLTS         | 230/460       |         |           |      |      | NEMA NOM. EFF |      |       |      |    | 87.5  |  |  |
| AMPS          | 4.5/2.25      |         |           |      |      |               | PF   | 72    |      |    |       |  |  |
| RATING        | 40C AMB-CONT  |         |           |      |      |               |      |       |      |    |       |  |  |
| RPM           | 1770          |         |           |      |      | MAX RPM       |      |       | 2700 |    |       |  |  |
| FRAME         | 145JP         | HZ      | 60        | CODE |      |               | M    | CLASS |      | F  |       |  |  |
| SER.F.        | 1.25          | SF AMP  | 5.62/2.81 |      |      |               | PH   | 3     | DES  | B  |       |  |  |
| DE            | 6206          |         | ODE       |      | 6203 |               |      |       |      |    |       |  |  |
| LUBRICATION   | POLYREX EM    |         |           |      |      |               |      |       |      |    |       |  |  |
| ID LOGO       | INVERTER TYPE |         |           | VPWM |      | CHP           | 60   | TO    |      | 90 | 1.5:1 |  |  |
| ID LOGO       | WK2           | 0.202   | CT        | 6    | TO   |               | 60   | 10:1  |      |    |       |  |  |
| ID LOGO       | SL HZ         | 1       | VT        | 3    | TO   |               | 60   | 20:1  |      |    |       |  |  |
|               |               |         |           |      |      |               |      |       |      |    |       |  |  |
|               |               |         |           |      |      |               |      |       |      |    |       |  |  |
|               |               |         |           |      |      |               |      |       |      |    |       |  |  |
|               |               |         |           |      |      |               |      |       |      |    |       |  |  |
|               |               |         |           |      |      |               |      |       |      |    |       |  |  |
|               |               |         |           |      |      |               | QR   |       |      |    |       |  |  |
| YR            |               |         |           |      |      |               |      |       |      |    |       |  |  |

## AC Induction Motor Performance Data

Record # 96330

Preliminary Data Sheet

| Winding: 35WGZ964-R001 |    |              |              | Type: 3528M                              |  | Enclosure: ODP |  |
|------------------------|----|--------------|--------------|------------------------------------------|--|----------------|--|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |  |                |  |
| Rated Output (HP)      |    | 1.5          |              | Full Load Torque                         |  | 4.47 LB-FT     |  |
| Volts                  |    | 230/460      |              | Start Configuration                      |  | direct on line |  |
| Full Load Amps         |    | 4.5/2.25     |              | Breakdown Torque                         |  | 20.2 LB-FT     |  |
| R.P.M.                 |    | 1770         |              | Pull-up Torque                           |  | 10.1 LB-FT     |  |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |  | 13.3 LB-FT     |  |
| NEMA Design Code       |    | B            | KVA Code     | Starting Current                         |  | 20.7 A         |  |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |  | 1.45 A         |  |
| NEMA Nom. Eff.         |    | 87.5         | Power Factor | Line-line Res. @ 25°C                    |  | 10.2 Ω         |  |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |  | 44°C           |  |
| S.F. Amps              |    | 4.9/2.45     |              | Temp. Rise @ S.F. Load                   |  | 50°C           |  |
|                        |    |              |              | Locked-rotor Power Factor                |  | 55.3           |  |
|                        |    |              |              | Rotor inertia                            |  | 0.202 lb-ft²   |  |

## Load Characteristics 460 V, 60 Hz, 1.5 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 31   | 50   | 63   | 72   | 78   | 82   | 76   |
| Efficiency      | 76.4 | 84.6 | 87   | 87.5 | 86.9 | 86   | 87.1 |
| Speed           | 1793 | 1786 | 1778 | 1771 | 1763 | 1754 | 1766 |
| Line amperes    | 1.51 | 1.67 | 1.92 | 2.23 | 2.6  | 3    | 2.45 |

ABB Motors and Mechanical Inc.

WINDING # 35WGZ964

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3528M

TORQUES (LB-FT): PO=20.2 PU=10.1 LR=13.3 LRA=20.7





