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# Customer information packet

## EM3219T

7.5HP, 3480RPM, 3PH, 60HZ, 184T, 3632M, OPSB, F

Class - None

Division - Not Applicable

## Specifications

|                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| Enclosure                      | OPSB                                                          |
| Frame                          | 184T                                                          |
| 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             | 7.500 HP @ 60 HZ                                              |
| Phase                          | 3                                                             |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                              |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                            |
| Agency Approvals               | CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<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              | 8.700 A @ 460.0 V<br>18.400 A @ 208.0 V<br>17.400 A @ 230.0 V |
| Design Code                    | A                                                             |
| Drip Cover                     | No Drip Cover                                                 |
| Duty Rating                    | CONT                                                          |
| Efficiency @ 100% Load         | 88.5 %                                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                                     |
| Feedback Device                | NO FEEDBACK                                                   |
| Front Shaft Indicator          | None                                                          |

## Part detail

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | AC         |
| Mech. spec.  | 36G548     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGQ034   |
| Layout       | 36LYG548   |
| Eff. date    | 06-11-2024 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 12-09-2020 |

|                               |                       |
|-------------------------------|-----------------------|
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 8.7 a                 |
| Insulation Class              | F                     |
| Inverter Code                 | Not Inverter          |
| KVA Code                      | L                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3632M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 2                     |
| Overall Length                | 15.00 IN              |
| Power Factor                  | 89                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.125 IN              |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 3480 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

| NP3553LUA                 |                                |      |     |      |   |       |       |  |  |
|---------------------------|--------------------------------|------|-----|------|---|-------|-------|--|--|
| CAT.NO.                   | EM3219T                        |      |     |      |   |       |       |  |  |
| SPEC.                     | 36G548Q034                     |      |     |      |   |       |       |  |  |
| HP                        | 7.5                            |      |     |      |   |       |       |  |  |
| VOLTS                     | 230/460                        |      |     |      |   |       |       |  |  |
| AMPS                      | 17.4/8.7                       |      |     |      |   |       |       |  |  |
| RPM                       | 3480                           |      |     |      |   |       |       |  |  |
| FRAME                     | 184T                           |      | HZ  | 60   |   | PH    | 3     |  |  |
| SF                        | 1.15                           | CODE | L   | DES  | A | CLASS | F     |  |  |
| NEMA NOM. EFF             | 88.5                           | PF   | 89  |      |   |       |       |  |  |
| RATING                    | 40C AMB-CONT                   |      |     |      |   |       |       |  |  |
| CC                        | 010A                           |      |     |      |   |       |       |  |  |
| ENCL                      | OPSB                           | SN   |     |      |   |       |       |  |  |
| DE                        | 6206                           |      | ODE | 6205 |   |       |       |  |  |
| VPWM INVERTER READY       |                                |      |     |      |   |       |       |  |  |
| CT30-60(2:1) VT3-60(20:1) |                                |      |     |      |   |       |       |  |  |
| USABLE AT                 | 50HZ 7.5HP 190/380V 21.2/10.6A |      |     |      |   |       | SF1.0 |  |  |

**Accessories**

| <b>Part number</b> | <b>Description</b> | <b>Multiplier</b> |
|--------------------|--------------------|-------------------|
| 36-3403            | C FACE KIT         | A8                |
| 36EP1405A09SP      | D-FLANGE KIT       | A8                |

## AC Induction Motor Performance Data

Record # 85745

Preliminary Data Sheet

| Winding: 36WGQ034-RXXZ |  |          |  | Type: 3632M                              |  | Enclosure: ODP          |  |
|------------------------|--|----------|--|------------------------------------------|--|-------------------------|--|
| Nameplate Data         |  |          |  | 460 V, 60 Hz:<br>High Voltage Connection |  |                         |  |
| Rated Output (HP)      |  | 7.5      |  | Full Load Torque                         |  | 11.3 LB-FT              |  |
| Volts                  |  | 230/460  |  | Start Configuration                      |  | direct on line          |  |
| Full Load Amps         |  | 17.4/8.7 |  | Breakdown Torque                         |  | 54.3 LB-FT              |  |
| R.P.M.                 |  | 3480     |  | Pull-up Torque                           |  | 36.1 LB-FT              |  |
| Hz                     |  | 60       |  | Phase                                    |  | 3                       |  |
| NEMA Design Code       |  | A        |  | KVA Code                                 |  | L                       |  |
| Service Factor (S.F.)  |  | 1.15     |  | No-load Current                          |  | 86.3 A                  |  |
| NEMA Nom. Eff.         |  | 88.5     |  | Power Factor                             |  | 89                      |  |
| Rating - Duty          |  | 40C      |  | AMB-CONT                                 |  | Temp. Rise @ Rated Load |  |
| S.F. Amps              |  | 20/10    |  | Temp. Rise @ S.F. Load                   |  | 45°C                    |  |
|                        |  |          |  | Locked-rotor Power Factor                |  | 61°C                    |  |
|                        |  |          |  | Rotor inertia                            |  | 63.2                    |  |
|                        |  |          |  |                                          |  | 0.143 lb-ft²            |  |

## Load Characteristics 460 V, 60 Hz, 7.5 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 58   | 80   | 87   | 91   | 93   | 93   | 92   |
| Efficiency      | 81.7 | 87.9 | 89   | 88.6 | 87.6 | 86.1 | 88   |
| Speed           | 3572 | 3543 | 3513 | 3478 | 3442 | 3403 | 3457 |
| Line amperes    | 3.68 | 4.98 | 6.77 | 8.66 | 10.8 | 13.1 | 9.9  |

ABB Motors and Mechanical Inc.

WINDING # 36WGQ034

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 3480 RPM 460 V 3632M

TORQUES (LB-FT): PO=54.3 PU=36.1 LR=41.4 LRA=86.3







