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# Customer information packet

## L3609T-50

3/2.2KW IEC60034-30, 1440RPM, 1PH, 50HZ, 18

Class - None

Division - Not Applicable

## Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | TEFC                                   |
| Frame                          | 184T                                   |
| Frame Material                 | Steel                                  |
| Frequency                      | 50.00 Hz                               |
| Haz Area Class and Group       | None                                   |
| Haz Area Division              | Not Applicable                         |
| Motor Letter Type              | Cap Start, Cap Run                     |
| Output @ Frequency             | 2.200 KW @ 50 HZ                       |
| Phase                          | 1                                      |
| Synchronous Speed @ Frequency  | 1500 RPM @ 50 HZ                       |
| Voltage @ Frequency            | 220.0 V @ 50 HZ                        |
| Agency Approvals               | C UR US<br>WEEE<br>UKCA<br>CURUS<br>CE |
| 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              | 12.000 A @ 220.0 V                     |
| Design Code                    | -                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 84.3 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Front Shaft Indicator          | None                                   |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 12.0 a                                 |

## Part detail

|              |                       |
|--------------|-----------------------|
| Revision     | G                     |
| Type         | AC                    |
| Mech. spec.  | 36E004                |
| Base         |                       |
| Status       | PRD/A                 |
| Elec. spec.  | 36WGQ058              |
| Layout       | 36LYE004              |
| Eff. date    | 07-17-2025            |
| CD Diagram   | CD0017A02             |
| Poles        | 04                    |
| Leads        | 2#14 A PH,2#16 B PH Y |
| Proprietary  | False                 |
| Created date | 03-13-2023            |

|                               |                       |
|-------------------------------|-----------------------|
| Insulation Class              | F                     |
| Inverter Code                 | Not Inverter          |
| KVA Code                      | G                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Motor Lead Quantity/Wire Size | 2 @ 14 AWG, A PH      |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3646LC                |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 18.06 IN              |
| Power Factor                  | 98                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| RoHS Status                   | ROHS COMPLIANT        |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.125 IN              |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 1440 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

| NP1372L        |                            |      |                  |    |      |  |   |    |   |   |
|----------------|----------------------------|------|------------------|----|------|--|---|----|---|---|
| CAT.NO.        | L3609T-50                  |      |                  |    |      |  |   |    |   |   |
| SPEC.          | 36E004Q058                 |      |                  |    |      |  |   |    |   |   |
| HP             | 3/2.2kw IEC60034-30        |      |                  |    |      |  |   |    |   |   |
| VOLTS          | 220                        |      |                  |    |      |  |   |    |   |   |
| AMP            | 12                         |      |                  |    |      |  |   |    |   |   |
| R.P.M. (1/MIN) | 1440                       |      |                  |    |      |  |   |    |   |   |
| FRAME          | 184T                       |      | HZ               |    | 50   |  |   | PH |   | 1 |
| SER.F.         | 1.15                       | CODE |                  | G  | DES  |  | - | CL | F |   |
| NEMA-NOM-EFF   | 84.3                       | PF   |                  | 98 |      |  |   |    |   |   |
| RATING         | 40C AMB-S1 CONT            |      |                  |    |      |  |   |    |   |   |
| CC             |                            |      | IP 4, IC411 44KG |    |      |  |   |    |   |   |
| DE             | 6206                       |      | ODE              |    | 6205 |  |   |    |   |   |
| ENCL           | TEFC                       | SN   |                  |    |      |  |   |    |   |   |
|                | IE2-50HZ 85 (75%),83 (50%) |      |                  |    |      |  |   |    |   |   |

**Accessories**

| Part number   | Description                             | Multiplier |
|---------------|-----------------------------------------|------------|
| 36-3301       | C FACE KIT                              | A8         |
| 36EP1304A62SP | FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS | A8         |

## AC Induction Motor Performance Data

Record # 101576

Typical performance - not guaranteed values

| Winding: 36WGQ058-R001 |    |              | Type: 3646LC                          | Enclosure: TEFC         |                       |            |                                 |
|------------------------|----|--------------|---------------------------------------|-------------------------|-----------------------|------------|---------------------------------|
| Nameplate Data         |    |              | 220 V, 50 Hz:<br>Single Voltage Motor |                         |                       |            |                                 |
| Rated Output (KW)      |    | 2.2          | Full Load Torque                      |                         | 10.7 LB-FT            |            |                                 |
| Volts                  |    | 220          | Start Configuration                   |                         | direct on line        |            |                                 |
| Full Load Amps         |    | 12           | Breakdown Torque                      |                         | 25.1 LB-FT            |            |                                 |
| R.P.M.                 |    | 1440         | Pull-up Torque                        |                         | 17.2 LB-FT            |            |                                 |
| Hz                     | 50 | Phase        | 1                                     | Locked-rotor Torque     |                       | 31.3 LB-FT |                                 |
| NEMA Design Code       |    | -            | KVA Code                              | G                       | Starting Current      |            | 78.6 A                          |
| Service Factor (S.F.)  |    | 1.15         |                                       | No-load Current         |                       | 1.66 A     |                                 |
| NEMA Nom. Eff.         |    | 84.3         | Power Factor                          | 98                      | Line-line Res. @ 25°C |            | 0.85023 Ω A Ph<br>1.4968 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |                                       | Temp. Rise @ Rated Load |                       | 60°C       |                                 |
| S.F. Amps              |    |              |                                       | Temp. Rise @ S.F. Load  |                       | 79°C       |                                 |

## Load Characteristics 220 V, 50 Hz, 2.2 KW

| % of Rated Load | 25     | 50     | 75     | 100  | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|------|--------|--------|------|
| Power Factor    | 96     | 98     | 98     | 98   | 97     | 96     | 97   |
| Efficiency      | 71.2   | 83.7   | 86.2   | 85.4 | 82.4   | 76.9   | 83.6 |
| Speed           | 1488.2 | 1476.5 | 1463.5 | 1448 | 1428.2 | 1398.5 | 1436 |
| Line amperes    | 3.64   | 6.09   | 8.84   | 11.9 | 15.6   | 20.3   | 14.1 |

ABB Motors and Mechanical Inc.

WINDING # 36WGQ058

Typical performance - not guaranteed values.

2.2 KW 1 PH 50 HZ 1440 RPM 220 V 3646LC

TORQUES (LB-FT): PO=25.1 PU=17.2 LR=31.3 LRA=78.6





