



Customer information packet

ECP84114T-4

50HP, 3530RPM, 3PH, 60HZ, 326TS, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

| | |
|--------------------------------|----------------------------------------------------------|
| Enclosure | TEFC |
| Frame | 326TS |
| Frame Material | Iron |
| Frequency | 60.00 Hz |
| Haz Area Class and Group | CLI GP A,B,C,D |
| Haz Area Division | Division II |
| Motor Letter Type | Three Phase |
| Output @ Frequency | 50.000 HP @ 60 HZ |
| Phase | 3 |
| Synchronous Speed @ Frequency | 3600 RPM @ 60 HZ |
| Voltage @ Frequency | 460.0 V @ 60 HZ |
| Agency Approvals | CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM 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 |
| Constant Torque Speed Range | 3 |
| Current @ Voltage | 55.000 A @ 460.0 V |
| Design Code | B |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 93.0 % |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Enclosure Modification | 841 |
| Feedback Device | NO FEEDBACK |
| Haz Area Temp Code | T3 |

Part detail

| | |
|--------------|------------|
| Revision | K |
| Type | AC |
| Mech. spec. | |
| Base | |
| Status | PRD/A |
| Elec. spec. | 12WGY668 |
| Layout | 12LYF808 |
| Eff. date | 11-03-2025 |
| CD Diagram | CD0006 |
| Poles | 02 |
| Leads | 3#8 |
| Proprietary | False |
| Created date | 12-12-2018 |

| | |
|------------------------------------|--------------------------------|
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 55.0 a |
| Insulation Class | F |
| Inverter Code | Inverter Duty |
| IP Rating | IP56 |
| KVA Code | F |
| Lifting Lugs | Standard Lifting Lugs |
| Locked Bearing Indicator | Locked Bearing |
| Max Speed | 5400 rpm |
| Motor Lead Termination | Ring Terminals |
| Motor Standards | NEMA |
| Motor Type | 1266M |
| Mounting Arrangement | F1 |
| Number of Poles | 2 |
| Overall Length | 29.24 IN |
| Power Factor | 92 |
| Product Family | Chem Process S/P 32-8 IEEE 841 |
| Pulley Face Code | Standard |
| Rodent Screen | None |
| Service Factor | 1.15 |
| Shaft Diameter | 1.875 IN |
| Shaft Ground Indicator | No Shaft Grounding |
| Shaft Rotation | Reversible |
| Speed | 3530 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

NP4332

| | | | | | |
|--------------------------------|--------------|---------------------------|------|--------------------|------------|
| CAT.NO. | ECP84114T-4 | P/N | | ENCLOSURE | TEFC |
| SPEC. | 12-0000-0366 | CC | 010A | FRAME | 326TS |
| HP | 50 | CLASS | F | HZ | 60 |
| RPM | 3530 | RPM MAX | 5400 | ODE BRG | 6312 |
| VOLT | 460 | PH | 3 | DE BRG | 6312 |
| AMP | 55 | DES | B | D.E. BRG. | 60BC03X30X |
| RATING | 40C AMB-CONT | KVA-CODE | F | O.D.E. BRG. | 60BC03X30X |
| NEMA-NOM-EFF | 93 | MOTOR WEIGHT | 623 | GREASE | POLYREX EM |
| G.MIN.EFF | 91.7 | MAX. KVAR | 3.9 | BLANK | |
| TEMP CODE | T3 | # OF ROTOR BARS | 28 | SER.F. | 1.15 |
| TEMP = | 200 | # OF STATOR SLOTS | 36 | IP | 56 |
| CT HZ FROM | 3 | PF | 92 | INV.TYPE | PWM |
| HTR-VOLTS | | INVERTER-TEMP-CODE | 200 | | |
| HTR-AMPS | | C HP FR | 60 | C HP TO | 90 |
| HTR-WATTS | | CT HZ TO | 60 | | |
| MAX. SPACE HEATER TEMP. | | | | VT HZ FROM | 0- |
| | | | | VT HZ TO | 60 |

AC Induction Motor Performance Data

Record # 47226

Typical performance - not guaranteed values

| Winding: 12WGY668-R019 | | Type: 1266M | Enclosure: TEFC | | |
|------------------------|--------------|---------------------|-----------------------------------------------|-------------------------|----------|
| Nameplate Data | | | 460 V, 60 Hz: Single Voltage Motor | | |
| Rated Output (HP) | 50 | Full Load Torque | 74.5 LB-FT | | |
| Volts | 460 | Start Configuration | direct on line | | |
| Full Load Amps | 55 | Breakdown Torque | 223 LB-FT | | |
| R.P.M. | 3530 | Pull-up Torque | 79.4 LB-FT | | |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 99 LB-FT |
| NEMA Design Code | B | KVA Code | F | Starting Current | 350 A |
| Service Factor (S.F.) | 1.15 | No-load Current | 11 A | | |
| NEMA Nom. Eff. | 93 | Power Factor | 92 | Line-line Res. @ 25°C | 0.113 Ω |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | 78°C | |
| S.F. Amps | | | Temp. Rise @ S.F. Load | 98°C | |
| | | | Locked-rotor Power Factor | 20.1 | |
| | | | Rotor inertia | 5.16 lb-ft ² | |

Load Characteristics 460 V, 60 Hz, 50 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor | 75 | 87 | 91 | 91 | 92 | 90 | 92 |
| Efficiency | 90.9 | 93.3 | 93.6 | 92.9 | 92 | 90.6 | 92.4 |
| Speed | 3583 | 3566 | 3549 | 3530 | 3510 | 3486 | 3518 |
| Line amperes | 17.7 | 28.8 | 41.5 | 55.2 | 69.5 | 85.6 | 63.8 |

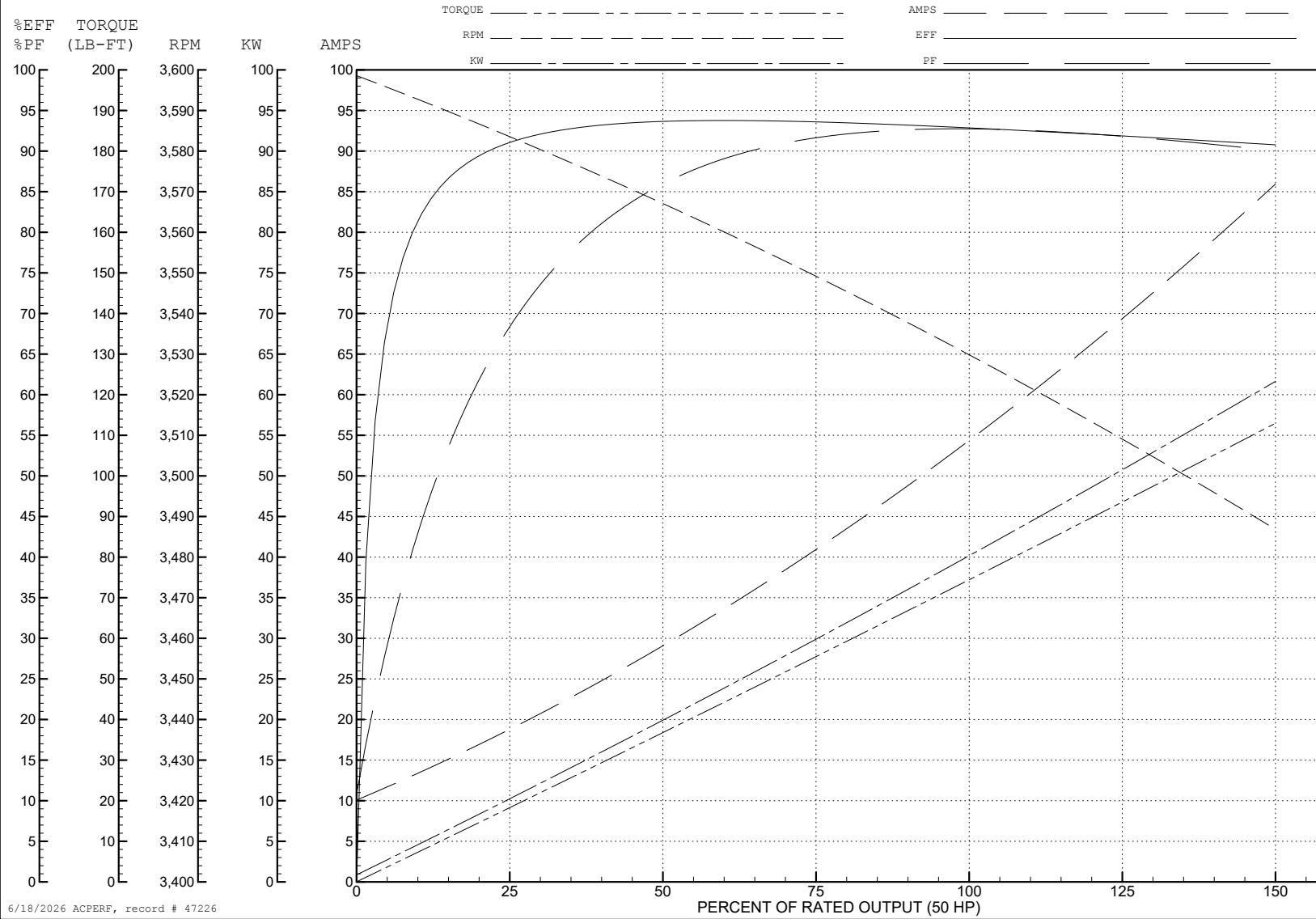
ABB Motors and Mechanical Inc.

WINDING # 12WGY668

Typical performance - not guaranteed values.

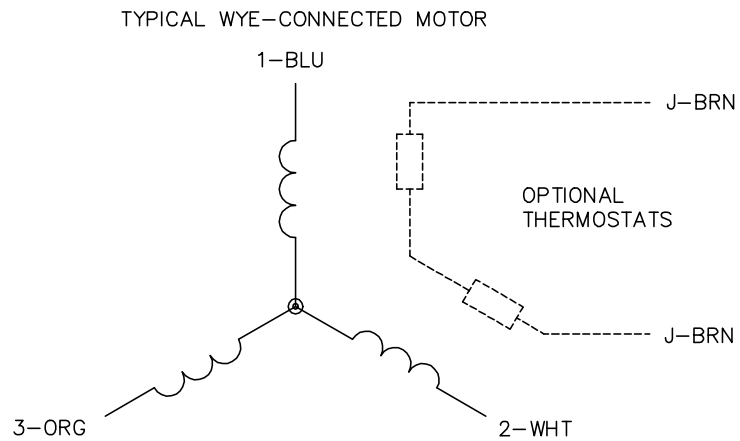
50 HP 3 PH 60 HZ 3530 RPM 460 V 1266M

TORQUES (LB-FT): PO=223 PU=79.4 LR=99 LRA=350



6/18/2026 ACPERF, record # 47226

CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

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|-----------------------------------|--------------------------------|-------------------|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: E | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\141 | REVISED: 10: 24: 49 02/19/2019 | BY: ENBRIRO |
| MTL: - | © □ | |

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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