ABB BALDOR RELIANCE

# Customer information packet

## CEM3665T-5

5HP, 1750RPM, 3PH, 60HZ, 184TC, 0641M, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 184TC |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 5.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 575.0 V @ 60 HZ |
| **Agency Approvals** | NEMA PREMIUM<br>CURUSEEV<br>NEMA PREMIUM (OLD LOGO) |
| **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** | 5.300 A @ 575.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 5.3 a |
| **Insulation Class** | F |

## Part Detail

| | |
|---|---|
| **Revision** | P |
| **Type** | AC |
| **Mech. spec.** | 06F057 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 06WGX200 |
| **Layout** | 06LYF057 |
| **Eff. date** | 10-28-2026 |
| **CD Diagram** | CD0006 |
| **Poles** | 04 |
| **Leads** | 3#16 |
| **Proprietary** | False |
| **Created date** | 08-03-2010 |

| | |
|---|---|
| **Inverter Code** | Inverter Ready |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 3 @ 16 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0642M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 15.98 IN |
| **Power Factor** | 79 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1750 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**

| NP3441L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CEM3665T-5 | | | | | | | | |
| **SPEC.** | 06F057X200G1 | | | | | | | | |
| **HP** | 5 | | | | | | | | |
| **VOLTS** | 575 | | | | | | | | |
| **AMP** | 5.3 | | | | | | | | |
| **RPM** | 1750 | | | | | | | | |
| **FRAME** | 184TC | **HZ** | 60 | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | J | **DES** | B | **CL** | F | | |
| **NEMA-NOM-EFF** | 89.5 | **PF** | 79 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **DE** | 6206 | **ODE** | 6205 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | |
| | SFA 5.8 | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 81830
Typical performance - not guaranteed values

| **Winding:** 06WGX200-R001 | **Type:** 0642M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **575 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 5 | **Full Load Torque** | 15.03 LB-FT |
| **Volts** | | | 575 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 5.3 | **Breakdown Torque** | 52.33 LB-FT |
| **R.P.M.** | | | 1750 | **Pull-up Torque** | 21.64 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 30.73 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | J | **Starting Current** | 36.26 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 2.34 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 79 | **Line-line Res. @ 25ºC** | 4.27 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 54°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 67°C |
| | | | | **Locked-rotor Power Factor** | 40.6 |
| | | | | **Rotor inertia** | 0.391 lb-ft² |

**Load Characteristics 575 V, 60 Hz, 5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 42 | 64 | 76 | 81 | 84 | 85 | 83 |
| **Efficiency** | 85.2 | 89.8 | 90.3 | 89.6 | 88.2 | 86.6 | 88.8 |
| **Speed** | 1788 | 1777 | 1764 | 1751 | 1736 | 1719 | 1742 |
| **Line amperes** | 2.61 | 3.26 | 4.13 | 5.14 | 6.31 | 7.59 | 5.84 |

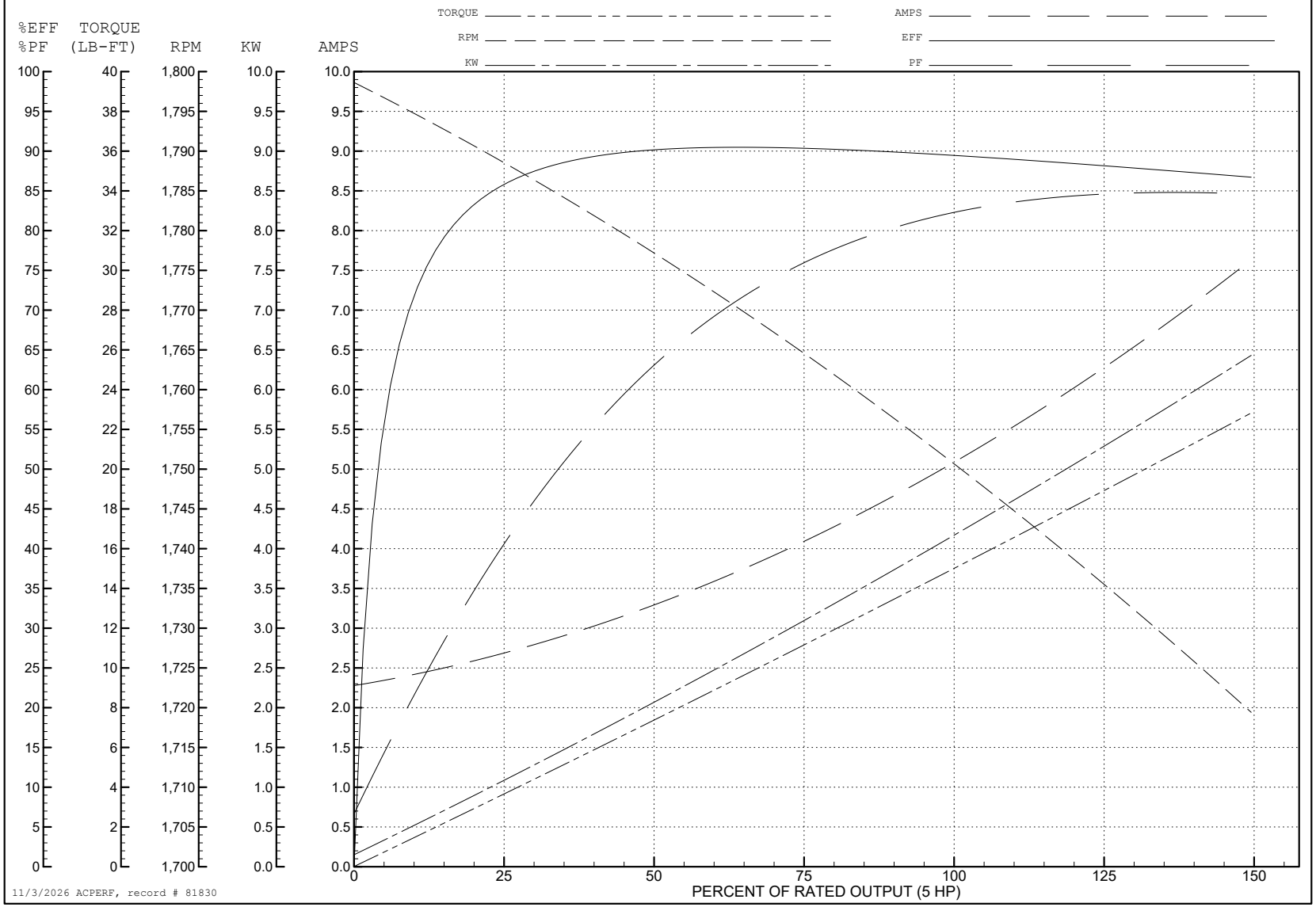
ABB Motors and Mechanical Inc.

WINDING # 06WGX200

5 HP 3 PH 60 HZ 1750 RPM 575 V 0642M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=52.33 PU=21.64 LR=30.73 LRA=36.26



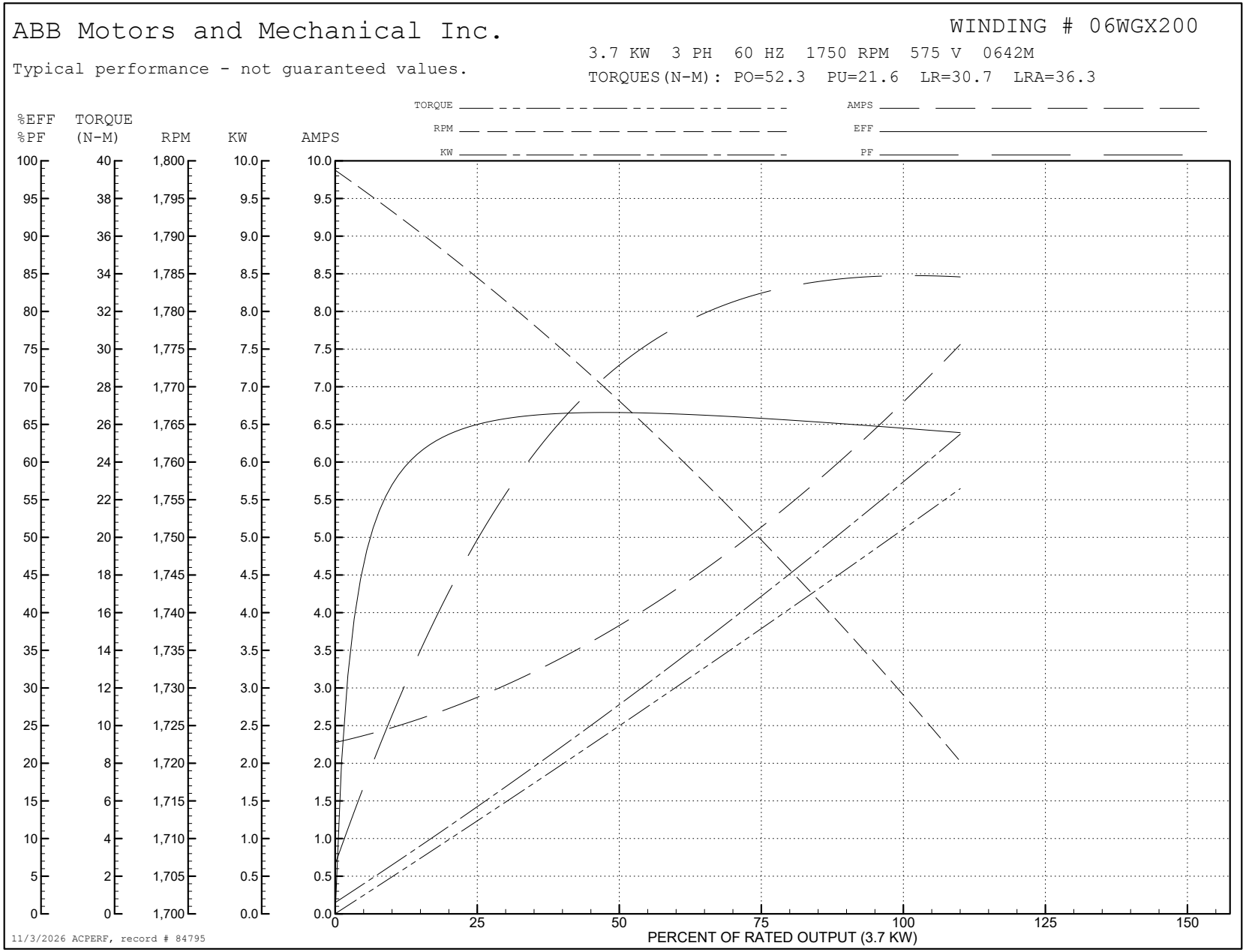
**AC Induction Motor Performance Data**
Record # 84795
Typical performance - not guaranteed values

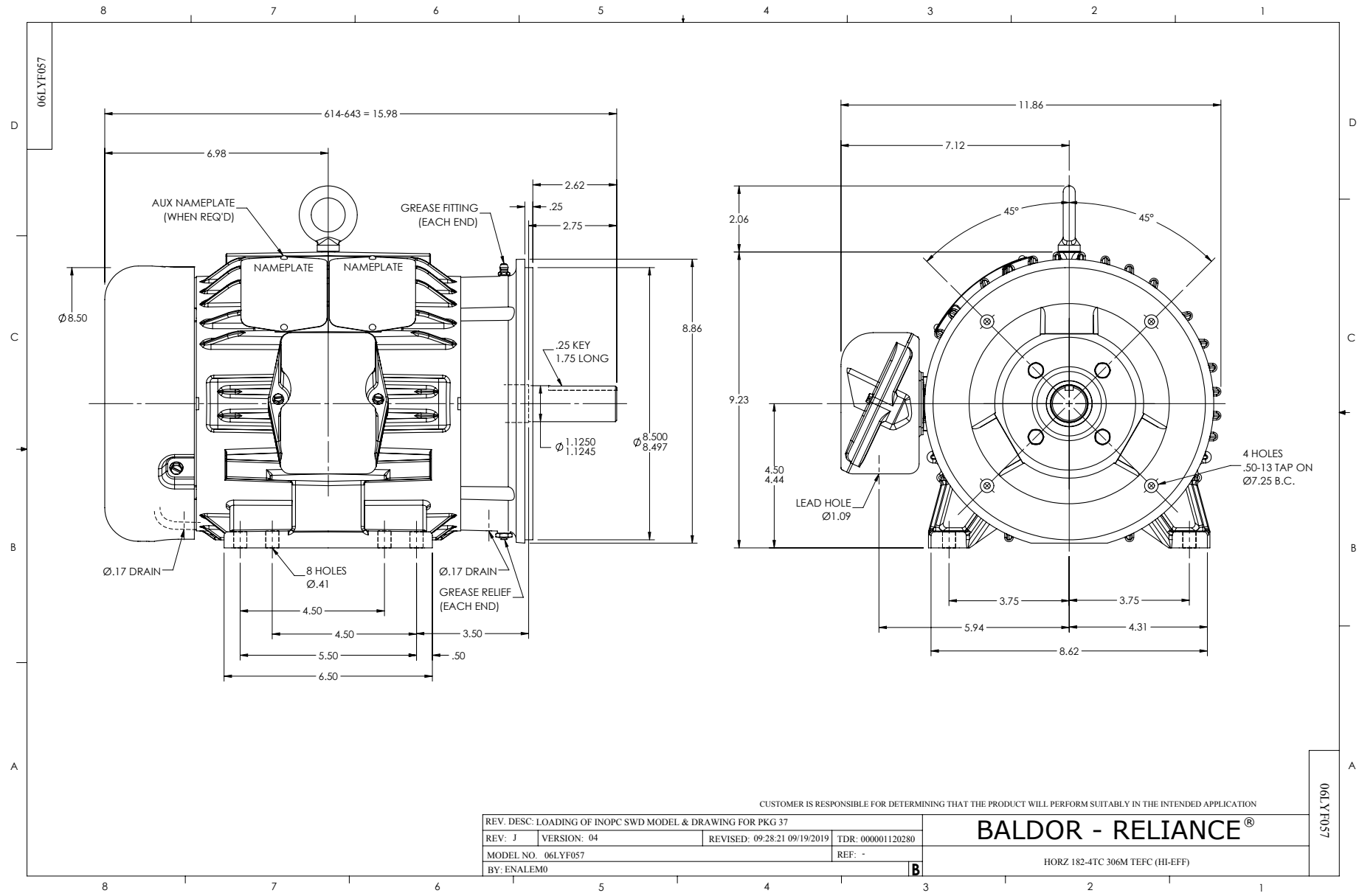
| **Winding:** 06WGX200-R001 | **Type:** 0642M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **575 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (KW)** | | | 3.7 | **Full Load Torque** | 14.85 N-M |
| **Volts** | | | 575 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 5.3 | **Breakdown Torque** | 52.3 N-M |
| **R.P.M.** | | | 1750 | **Pull-up Torque** | 21.6 N-M |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 30.7 N-M |
| **NEMA Design Code** | B | **KVA Code** | J | **Starting Current** | 36.3 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 2.34 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 79 | **Line-line Res. @ 25ºC** | 4.27 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 53°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 66°C |
| | | | | **Locked-rotor Power Factor** | 40.6 |
| | | | | **Rotor inertia** | 0.391 kg-m² |

**Load Characteristics 575 V, 60 Hz, 3.7 KW**

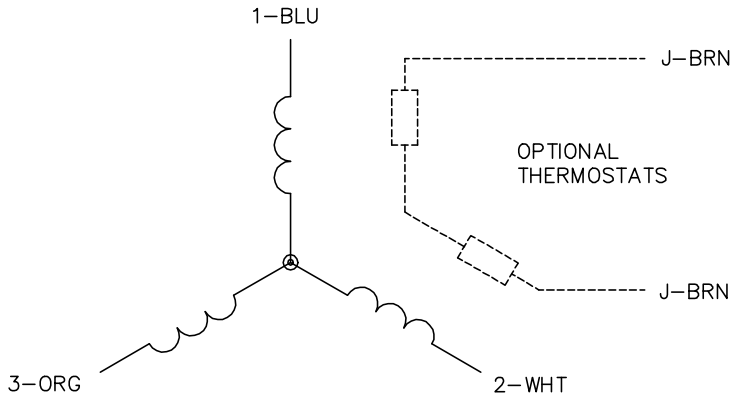
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 42 | 64 | 75 | 81 | 84 | 85 | 83 |
| **Efficiency** | 62.6 | 66.2 | 66.4 | 66 | 65.1 | 63.8 | 65.5 |
| **Speed** | 1788 | 1777 | 1764 | 1751 | 1736 | 1720 | 1742 |
| **Line amperes** | 2.6 | 3.25 | 4.11 | 5.1 | 6.27 | 7.52 | 5.8 |

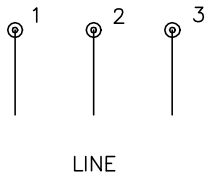

ABB Motors and Mechanical Inc.
WINDING # 06WGX200
3.7 KW 3 PH 60 HZ 1750 RPM 575 V 0642M
Typical performance - not guaranteed values.
TORQUES(N-M): PO=52.3 PU=21.6 LR=30.7 LRA=36.3
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (N-M)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (3.7 KW)
11/3/2026 ACPERF, record # 84795


06LYF057
614-643 = 15.98
6.98
AUX NAMEPLATE (WHEN REQ'D)
GREASE FITTING (EACH END)
2.62
.25
2.75
NAMEPLATE
NAMEPLATE
Ø8.50
8.86
.25 KEY
1.75 LONG
Ø1.1250
1.1245
Ø8.500
8.497
Ø.17 DRAIN
8 HOLES
Ø.41
Ø.17 DRAIN
GREASE RELIEF (EACH END)
4.50
4.50
3.50
5.50
.50
6.50
11.86
7.12
2.06
45°
45°
9.23
4.50
4.44
LEAD HOLE
Ø1.09
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
3.75
3.75
5.94
4.31
8.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 37
REV: J
VERSION: 04
REVISED: 09:28:21 09/19/2019
TDR: 000001120280
MODEL NO. 06LYF057
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 182-4TC 306M TEFC (HI-EFF)
06LYF057

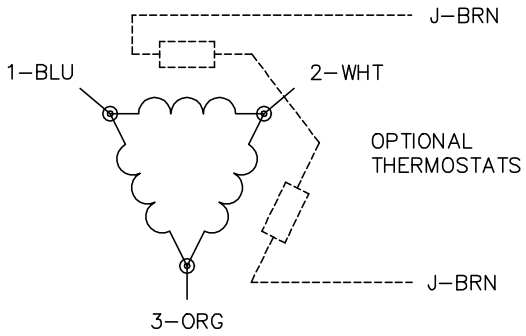
CD0006

TYPICAL WYE–CONNECTED MOTOR




TYPICAL DELTA–CONNECTED MOTOR




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

| | | | |
|---|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | | BALDOR - RELIANCE® |
| REV. LTR: E | VERSION: 01 | TDR: 000001099922 | |
| FILE: \AAA\00005\141 | REVISED: 10:24:49 02/19/2019 | BY: ENBRIR0 | 3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED |
| MTL: – | | | SH 1 of 1 |