ABB BALDOR RELIANCE

# Customer information packet

## CEM3610T-G

3HP, 3450RPM, 3PH, 60HZ, 182TC, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 182TC |
| **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** | 3.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | CSA EEV |
| | 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 |
| **Current @ Voltage** | 7.000 A @ 230.0 V |
| | 3.500 A @ 460.0 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 |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.5 a |

## Part Detail

| | |
|---|---|
| **Revision** | D |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGQ130 |
| **Layout** | 35LY-000-405 |
| **Eff. date** | 01-02-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 10-07-2020 |

| | |
|---|---|
| **Insulation Class** | H |
| **Inverter Code** | Inverter Duty |
| **IP Rating** | NONE |
| **KVA Code** | M |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 6000 rpm |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3540M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 16.54 IN |
| **Power Factor** | 92 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | C-Face |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Ground Indicator** | Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 3450 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**

| NP3441LUA | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CEM3610T-G | | | | | | | | | |
| **SPEC** | 35-0000-0914 | | | | | | | | | |
| **HP** | 3 | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | |
| **AMPS** | 7/3.5 | | | | | | | | | |
| **RPM** | 3450 | | | | | | | | | |
| **FRAME** | 182TC | **HZ** | 60 | | | **PH** | 3 | | | |
| **SF** | 1.00 | **CODE** | M | **DES** | B | **CLASS** | H | | | |
| **NEMA NOM. EFF** | 87.5 | **PF** | 92 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | 010A | | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | | |
| **DE** | 6206 | **ODE** | 6203 | | | | | | | |
| **VPWM INVERTER READY** | 10:1 CT | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | | |
| | 50HZ 3HP 190/380V 8.8/4.4A | | | | | | | | | SF1.0 |

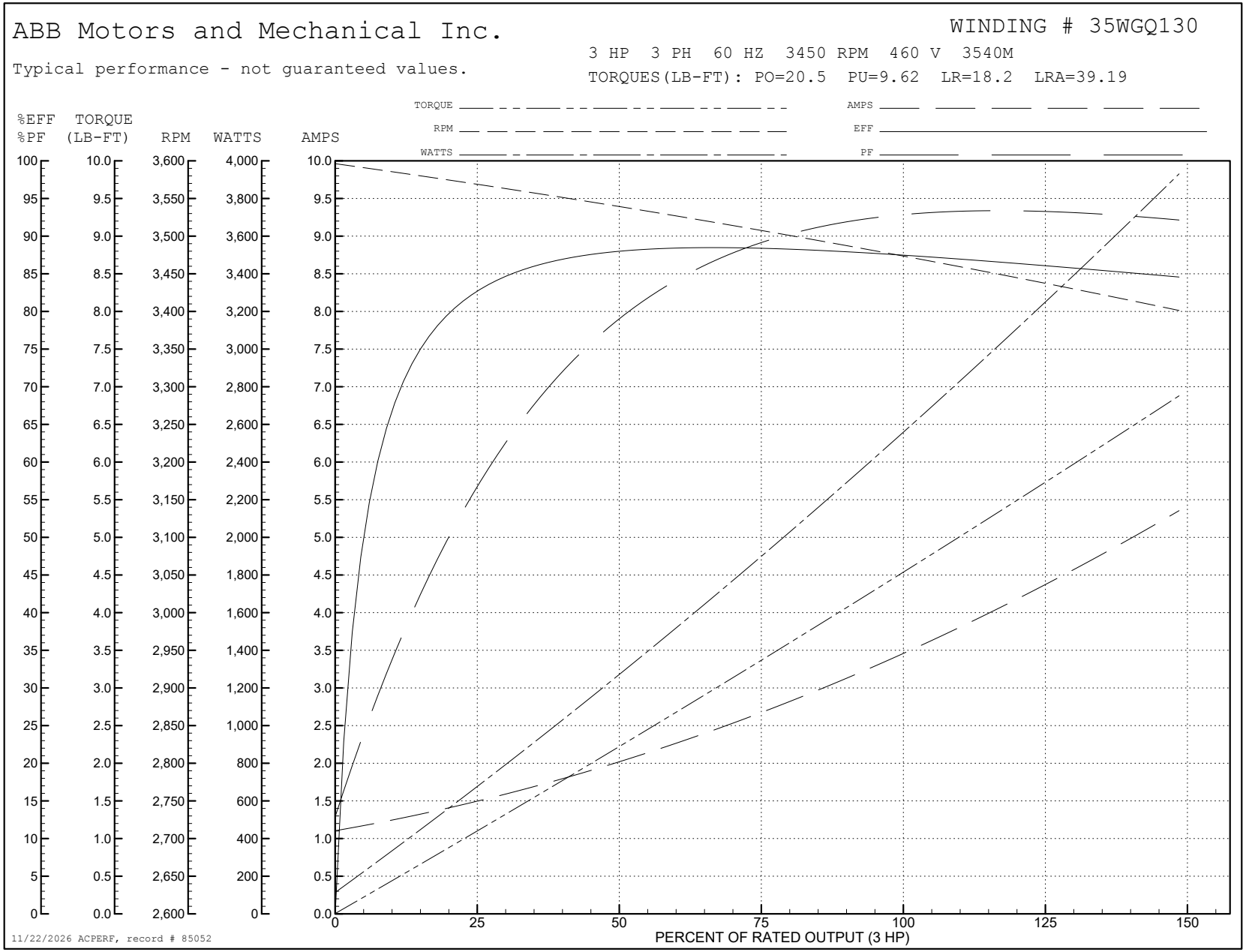
**AC Induction Motor Performance Data**
Record # 85052
Typical performance - not guaranteed values

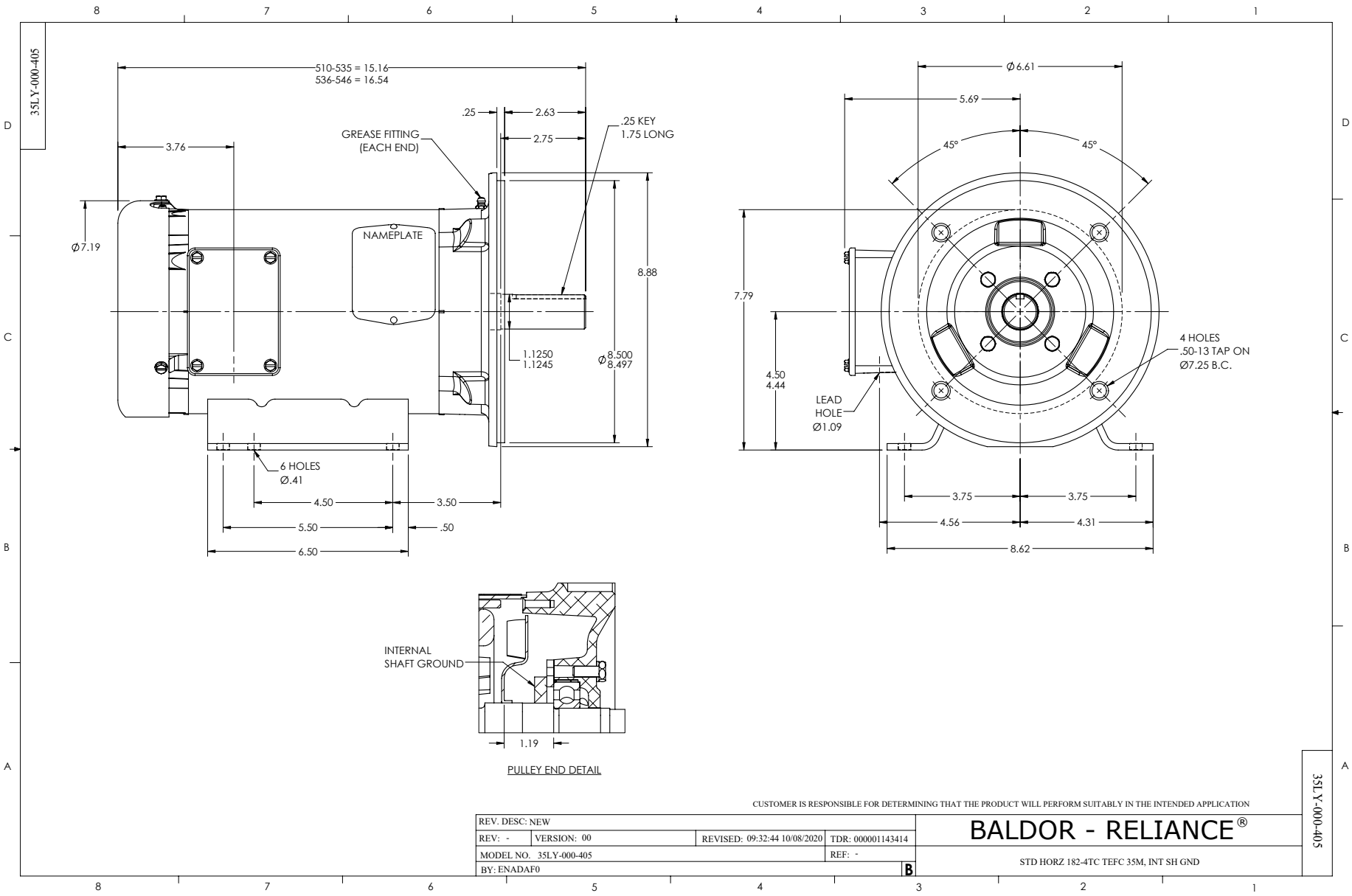
| **Winding:** 35WGQ130-R002 | **Type:** 3540M | **Enclosure:** TEFC |
|---|---|---|

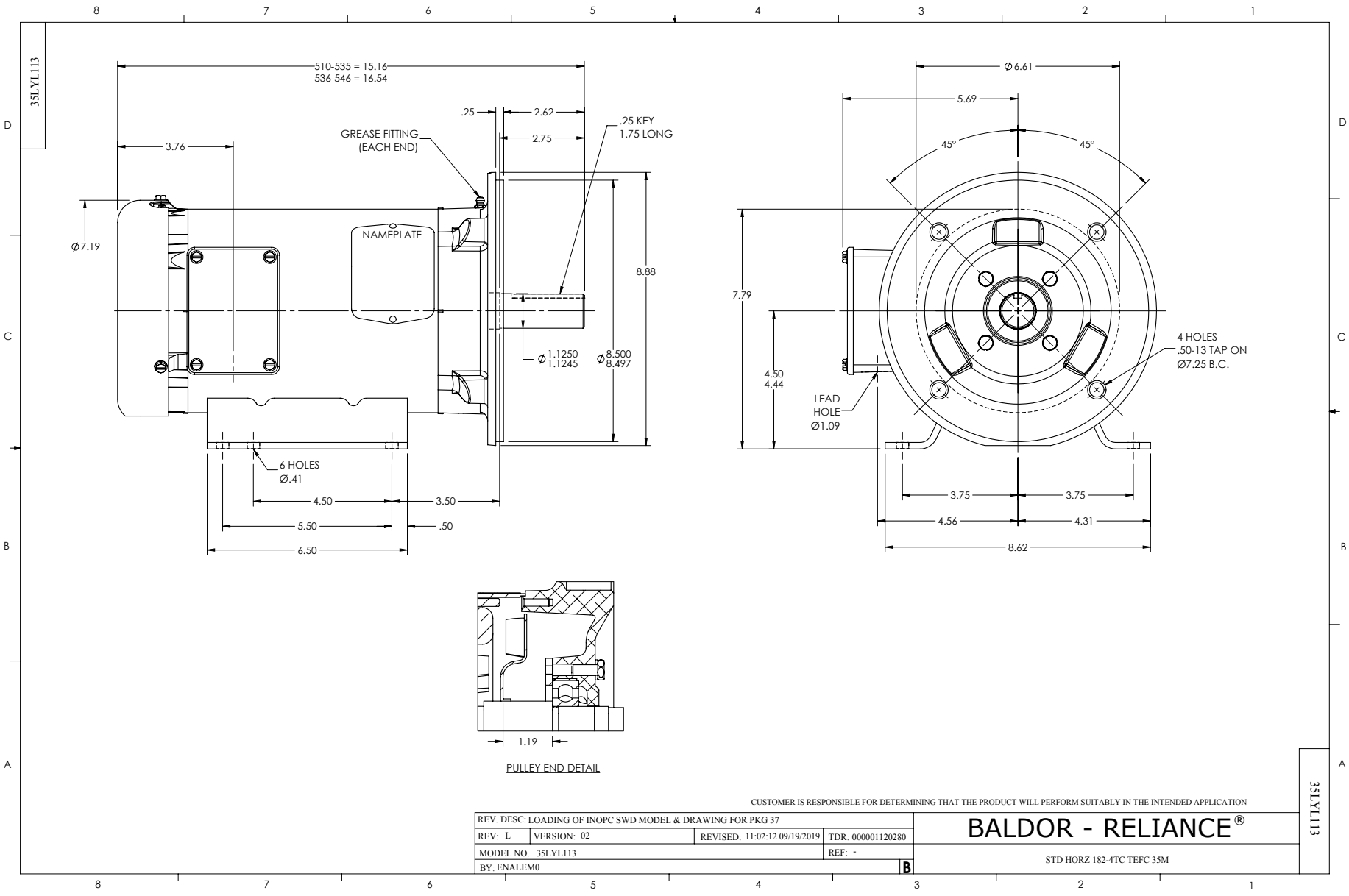
| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3 | **Full Load Torque** | 4.59 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7/3.5 | **Breakdown Torque** | 20.5 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 9.62 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 18.2 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | M | **Starting Current** | 39.19 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 1.14 A |
| **NEMA Nom. Eff.** | 87.5 | **Power Factor** | 92 | **Line-line Res. @ 25ºC** | 4.032 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 58°C |
| | | | | **Locked-rotor Power Factor** | 43.9 |
| | | | | **Rotor inertia** | 0.111 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 3 HP**

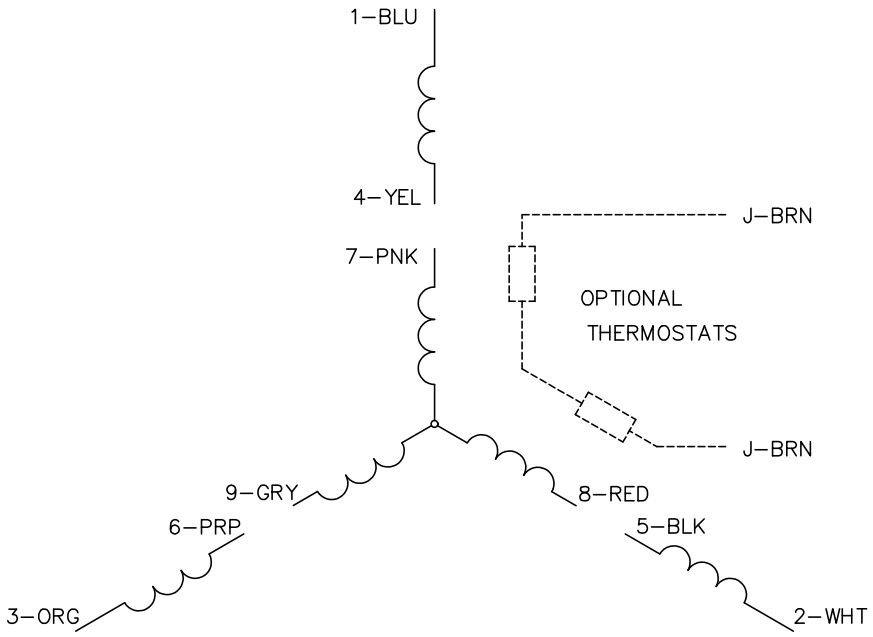
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 60 | 81 | 88 | 92 | 94 | 93 |
| **Efficiency** | 82.6 | 87.7 | 88.3 | 87.6 | 86.3 | 84.4 |
| **Speed** | 3564 | 3536 | 3506 | 3474 | 3439 | 3399 |
| **Line amperes** | 1.46 | 2.04 | 2.74 | 3.53 | 4.38 | 5.34 |

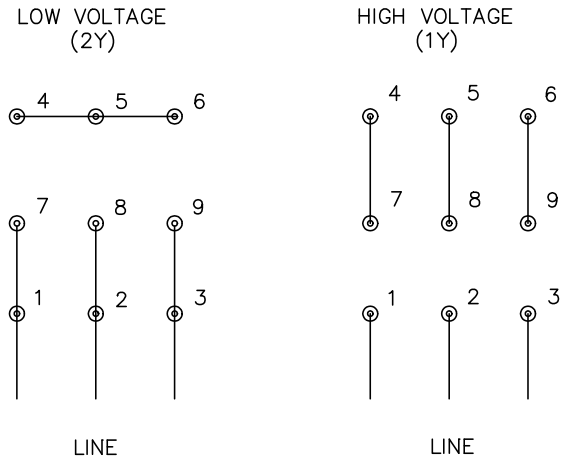

ABB Motors and Mechanical Inc.
WINDING # 35WGQ130
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 3450 RPM 460 V 3540M
TORQUES(LB-FT): PO=20.5 PU=9.62 LR=18.2 LRA=39.19
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/22/2026 ACPERF, record # 85052


35LY-000-405
510-535 = 15.16
536-546 = 16.54
.25
2.63
2.75
.25 KEY
1.75 LONG
GREASE FITTING
(EACH END)
3.76
NAMEPLATE
Ø7.19
8.88
1.1250
1.1245
Ø8.500
8.497
6 HOLES
Ø.41
4.50
3.50
5.50
.50
6.50
Ø6.61
5.69
45°
45°
7.79
4.50
4.44
LEAD
HOLE
Ø1.09
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
3.75
3.75
4.56
4.31
8.62
INTERNAL
SHAFT GROUND
1.19
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 09:32:44 10/08/2020 TDR: 000001143414
MODEL NO. 35LY-000-405 REF: -
BY: ENADAF0 B
BALDOR - RELIANCE®
STD HORZ 182-4TC TEFC 35M, INT SH GND
35LY-000-405


35LYL113
510-535 = 15.16
536-546 = 16.54
.25
2.62
2.75
.25 KEY
1.75 LONG
GREASE FITTING
(EACH END)
3.76
NAMEPLATE
Ø7.19
8.88
Ø1.1250
1.1245
Ø8.500
8.497
6 HOLES
Ø.41
4.50
3.50
5.50
.50
6.50
Ø6.61
5.69
45°
45°
7.79
4.50
4.44
LEAD
HOLE
Ø1.09
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
3.75
3.75
4.56
4.31
8.62
1.19
PULLEY END DETAIL
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: L
VERSION: 02
REVISED: 11:02:12 09/19/2019
TDR: 000001120280
MODEL NO. 35LYL113
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 182-4TC TEFC 35M
35LYL113

CD0005




NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |