ABB BALDOR RELIANCE

Customer information packet

CEM3610T-G

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

9/4/2026 11:47:05 AM

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

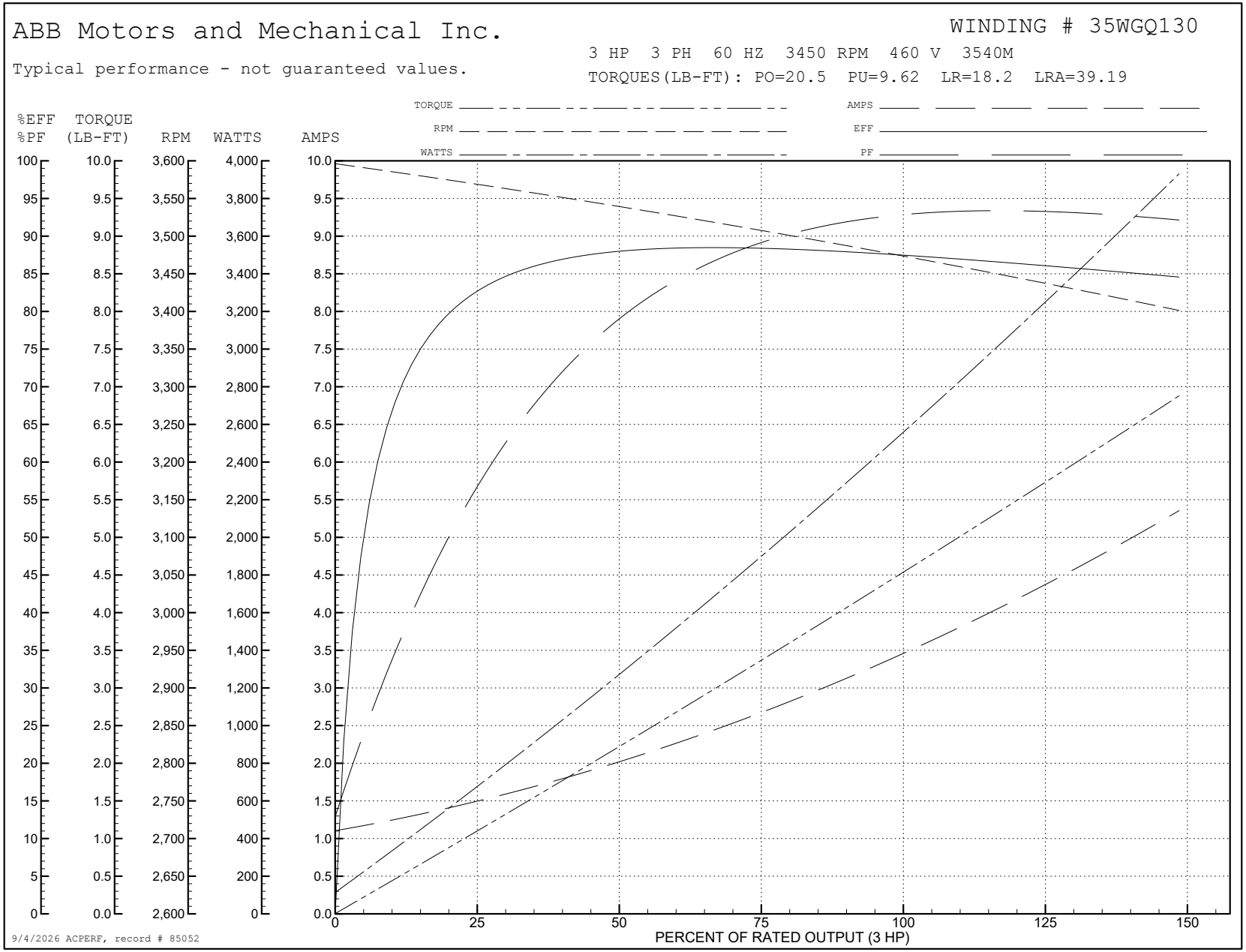
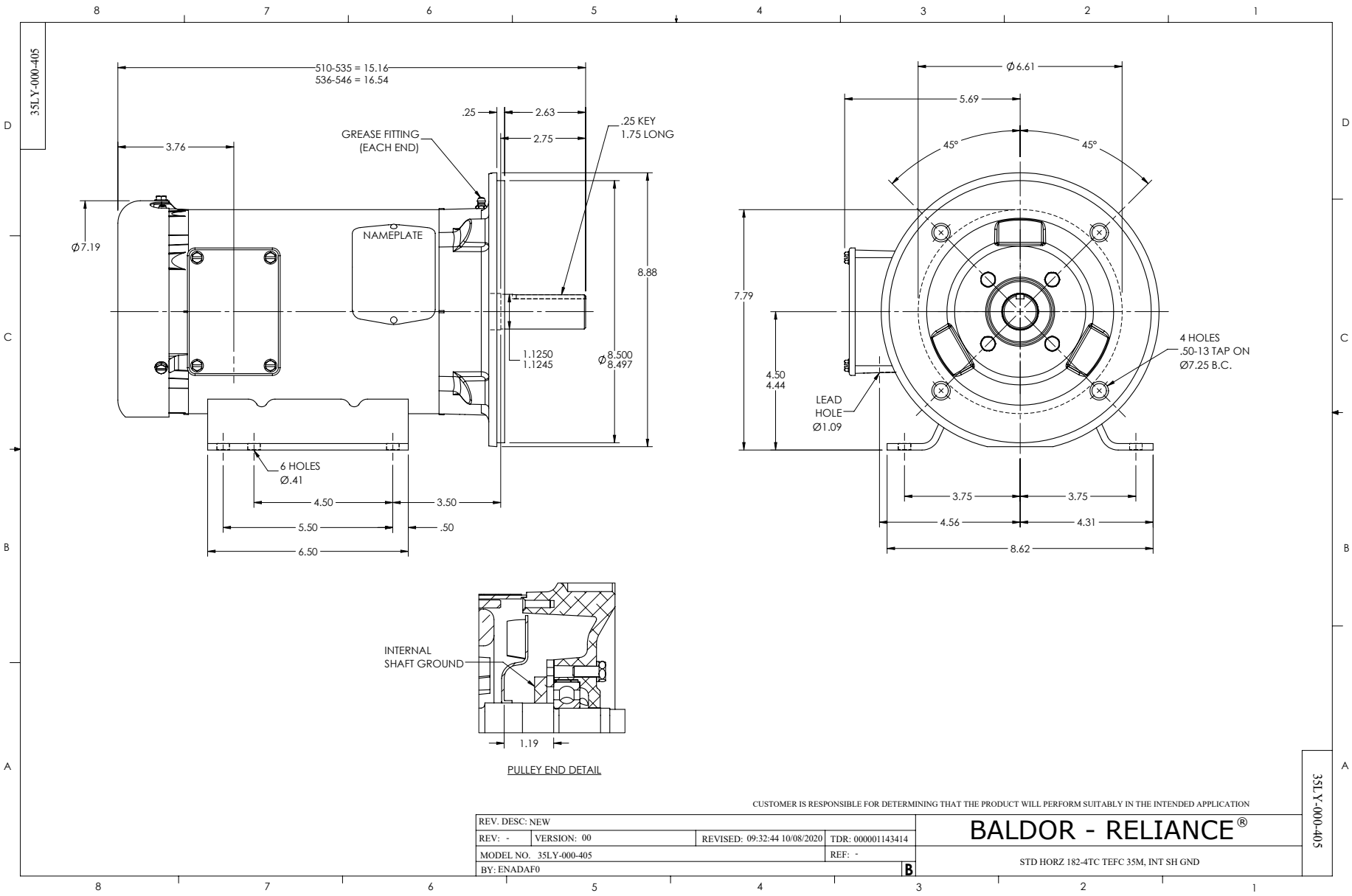
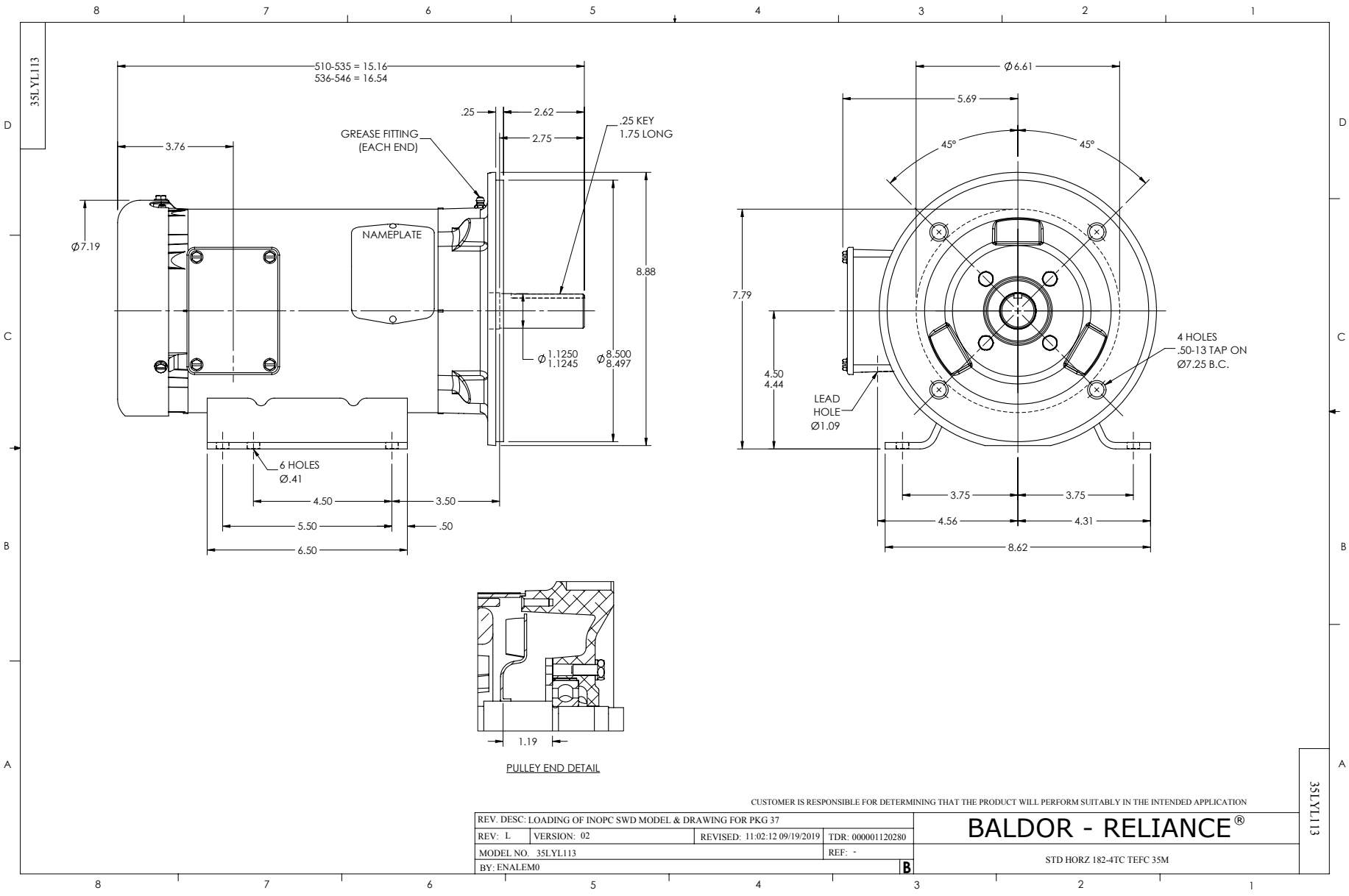
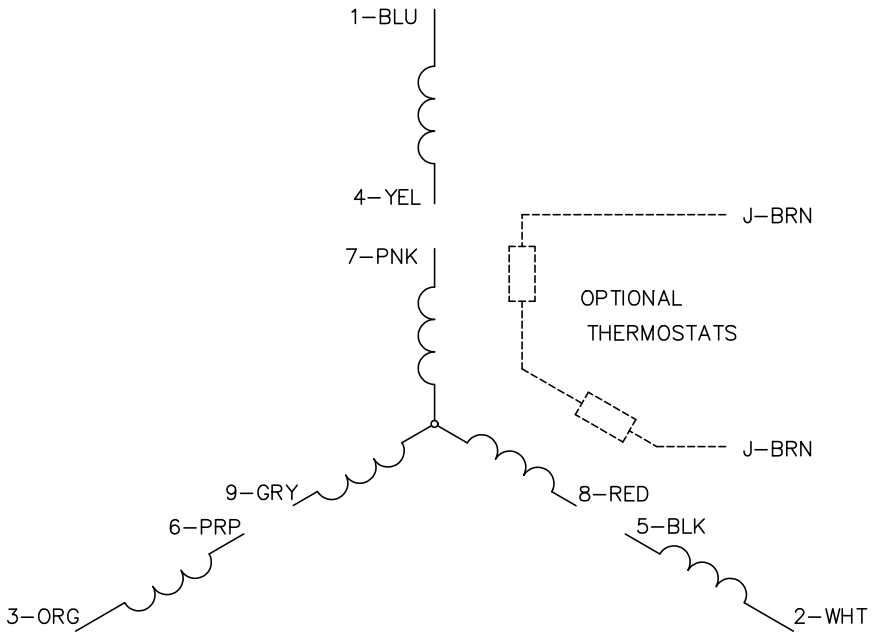


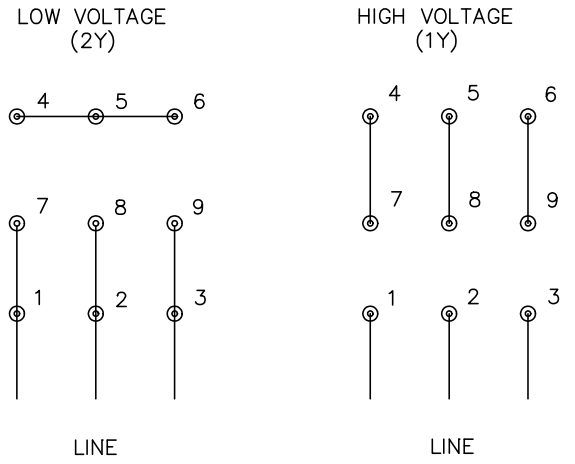
ABB Motors and Mechanical Inc.
WINDING # 35WGQ130
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 3450 RPM 460 V 3540M
TORQUES(LB-FT): PO=20.5 PU=9.62 LR=18.2 LRA=39.19
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
9/4/2026 ACPERF, record # 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