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# Customer information packet

## EM3610T-57

3HP, 2850RPM, 3PH, 50HZ, 182T, 3534M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Steel
Frequency	50.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ 400.0 V @ 50 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	C UR US CE CURUS IE3 UKCA WEEE
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.200 A @ 400.0 V 7.300 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.9 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

## Part detail

Revision	K
Type	AC
Mech. spec.	35L100
Base	
Status	PRD/A
Elec. spec.	35WGL461
Layout	35LYL100
Eff. date	07-06-2023
CD Diagram	CD0022
Poles	02
Leads	6#18
Proprietary	False
Created date	12-22-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3534M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.16 IN
Power Factor	88
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2850 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP2716L</b>									
<b>CAT NO</b>	EM3610T-57								
<b>SPEC.</b>	35L100L461G1								
<b>HP</b>	3/2.2KW				<b>PH</b>	3			
<b>VOLTS</b>	230/400								
<b>AMP</b>	7.3/4.2								
<b>R.P.M. (1/MIN)</b>	2850								
<b>FRAME</b>	182T		<b>HZ</b>	50		<b>I.P.</b>	44		
<b>SER.F.</b>	1.15	<b>CODE</b>	K	<b>DES</b>	B	<b>CL</b>	F		
<b>NOM.EFF.</b>	85.9		<b>% (100%)</b>						
<b>PF</b>	88								
<b>RATING</b>	40C AMB-CONT				<b>CC</b>				
<b>DE BRG</b>	6206		<b>ODE</b>	6203					
<b>ENCL</b>	TEFC	<b>SN</b>							
<b>BLANK</b>	IE3-85.9(75%)84.1(50%)								
	25KG IC411								

**AC Induction Motor Performance Data**

Record # 54623

Typical performance - not guaranteed values

Winding: 35WGL461-R001		Type: 3534M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>400 V, 50 Hz: High Voltage Connection</b>	
Rated Output (HP)		3	Full Load Torque	5.45 LB-FT
Volts		230/400	Start Configuration	direct on line
Full Load Amps		7.3/4.2	Breakdown Torque	20.34 LB-FT
R.P.M.		2850	Pull-up Torque	14.12 LB-FT
Hz	50 Phase	3	Locked-rotor Torque	20.63 LB-FT
NEMA Design Code	B KVA Code	K	Starting Current	36.11 A
Service Factor (S.F.)		1.15	No-load Current	1.44 A
NEMA Nom. Eff.	85.9 Power Factor	88	Line-line Res. @ 25°C	4.5 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load	75°C
S.F. Amps			Temp. Rise @ S.F. Load	92°C
			Locked-rotor Power Factor	54.8
			Rotor inertia	0.094 LB-FT <sup>2</sup>

**Load Characteristics 400 V, 50 Hz, 3 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	75	85	88	89	90	89
Efficiency	86.9	88.9	88.5	86.7	84.3	81.6	85.4
Speed	2963	2932	2900	2863	2820	2773	2841
Line amperes	1.75	2.43	3.24	4.18	5.26	6.36	4.82

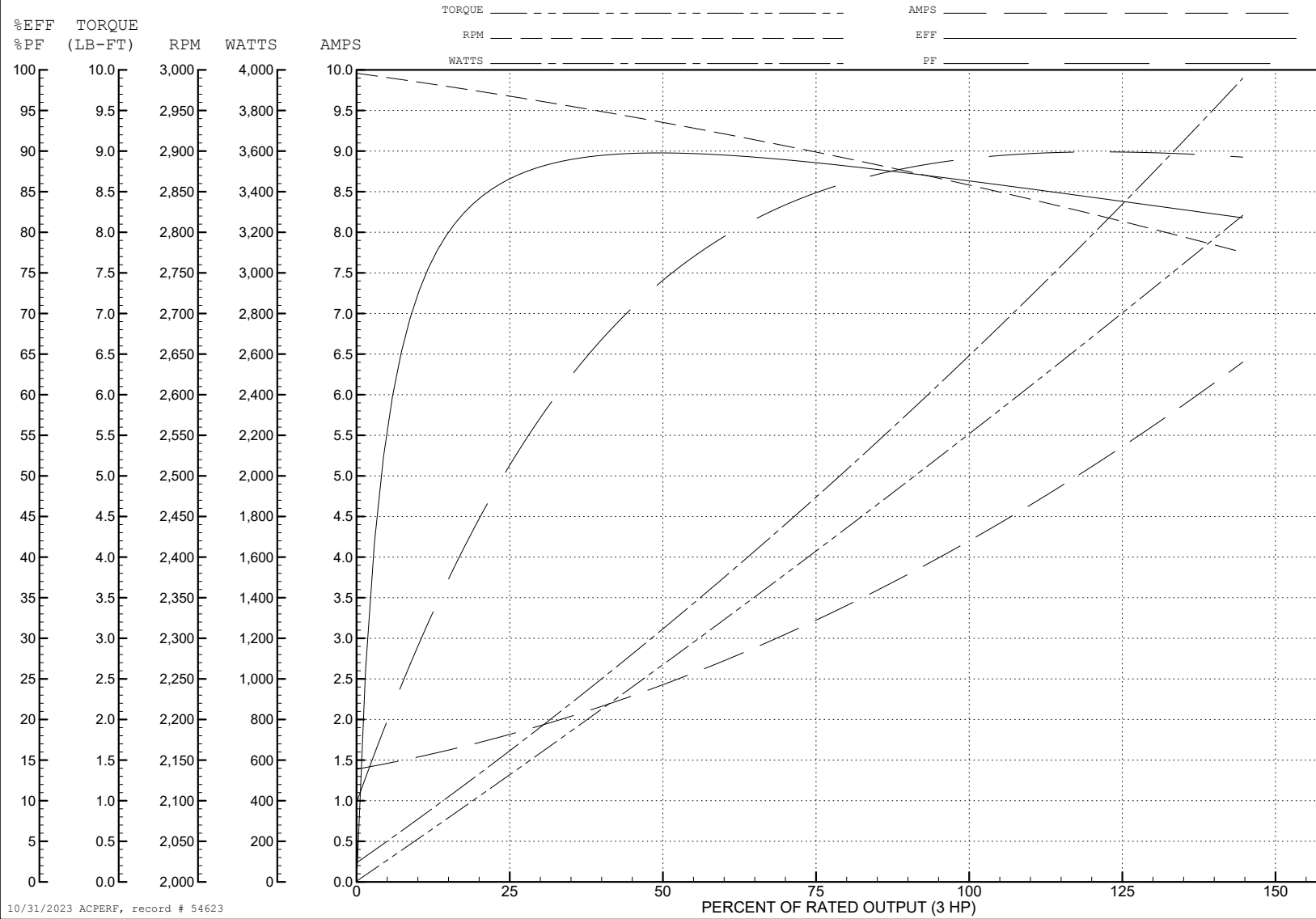
ABB Motors and Mechanical Inc.

WINDING # 35WGL461

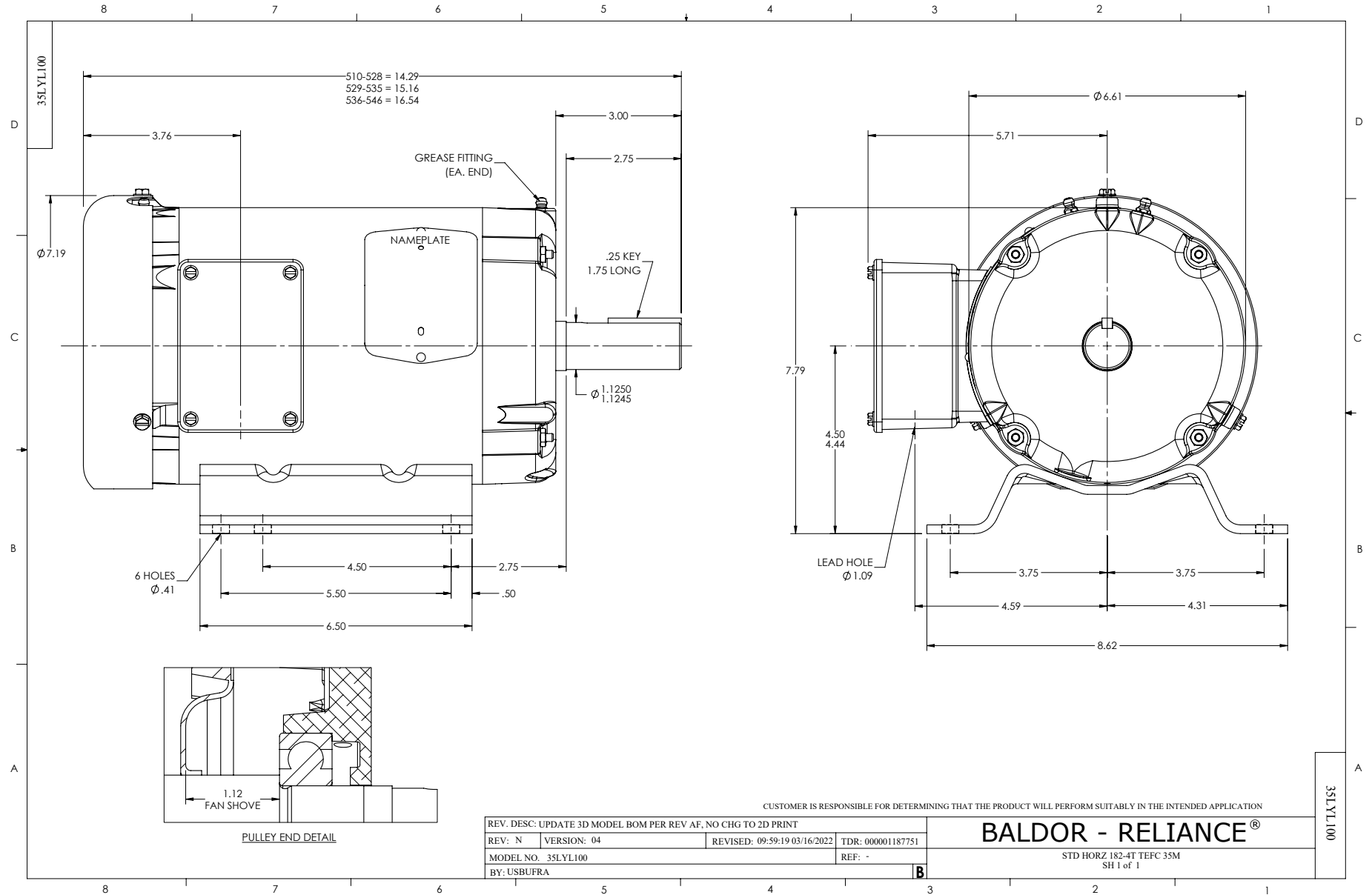
3 HP 3 PH 50 HZ 2850 RPM 400 V 3534M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=20.34 PU=14.12 LR=20.63 LRA=36.11

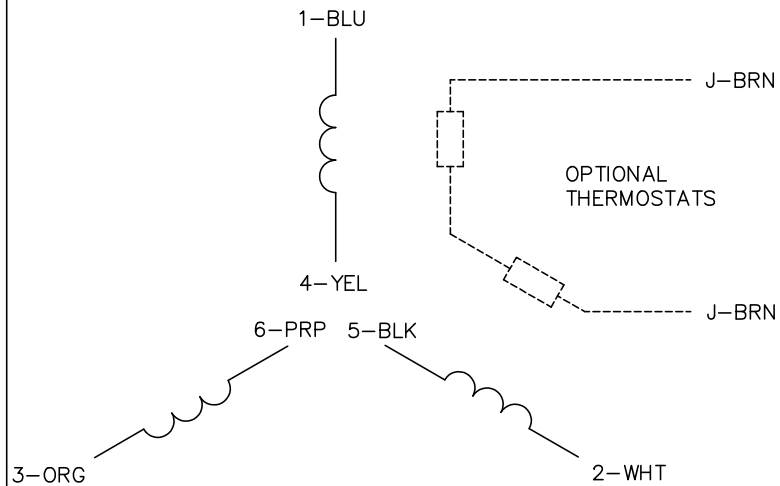


10/31/2023 ACPERF, record # 54623

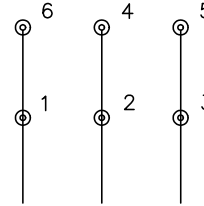




CD0022

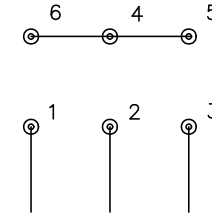


LOW VOLTAGE  
(1D)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: F	BY: JLP	REVISED: 01/21/99 3:54	TDR: 0171435
CD0022		FILE: AAA00005144	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022