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# Customer information packet

## EM3218T

5HP, 1760RPM, 3PH, 60HZ, 184T, 3640M, OPSB, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPSB
Frame	184T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR
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	14.000 A @ 208.0 V 6.600 A @ 460.0 V 13.200 A @ 230.0 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

## Part detail

Revision	AA
Type	AC
Mech. spec.	36G548
Base	
Status	PRD/A
Elec. spec.	36WGS270
Layout	36LYG548
Eff. date	04-04-2019
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	03-24-2010

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.50 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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

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

**Nameplate**

**NP3553LUA**

<b>CAT.NO.</b>	EM3218T						
<b>SPEC.</b>	36G548S270G1						
<b>HP</b>	5						
<b>VOLTS</b>	230/460						
<b>AMPS</b>	13.2/6.6						
<b>RPM</b>	1750						
<b>FRAME</b>	184T	<b>HZ</b>	60	<b>PH</b>	3		
<b>SF</b>	1.15	<b>CODE</b>	J	<b>DES</b>	B	<b>CLASS</b>	F
<b>NEMA NOM. EFF</b>	89.5	<b>PF</b>	80				
<b>RATING</b>	40C AMB-CONT						
<b>CC</b>	010A	<b>USABLE AT 208V</b>			N/A		
<b>DE</b>	6206	<b>ODE</b>	6205				
<b>ENCL</b>	OPSB	<b>SN</b>					
<b>VPWM INVERTER READY</b>							
<b>CT30-60(2:1) VT3-60(20:1)</b>							
<b>USABLE AT</b>	50HZ 5HP 190/380V 15.6/7.8A					SF1.0	

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	A8

**AC Induction Motor Performance Data**

Record # 53360

Typical performance - not guaranteed values

Winding: 36WGS270-R004		Type: 3640M	Enclosure: OPSB	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	5	Full Load Torque	15.05 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	13.2/6.6	Breakdown Torque	44.8 LB-FT	
R.P.M.	1750	Pull-up Torque	25.5 LB-FT	
Hz	60 Phase	Locked-rotor Torque	30.1 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	44.8 A	
Service Factor (S.F.)	1.15	No-load Current	2.97 A	
NEMA Nom. Eff.	89.5 Power Factor	Line-line Res. @ 25°C	2.632 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	44°C	
S.F. Amps		Temp. Rise @ S.F. Load	56°C	
		Locked-rotor Power Factor	41	
		Rotor inertia	0.372 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 5 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	82
Efficiency	85.4	89.7	90.2	89.5	88.2	86.4	88.7
Speed	1789.2	1778.5	1766.9	1753.8	1739.5	1722.1	1745
Line amperes	3.33	4.14	5.26	6.59	8.05	9.68	7.47

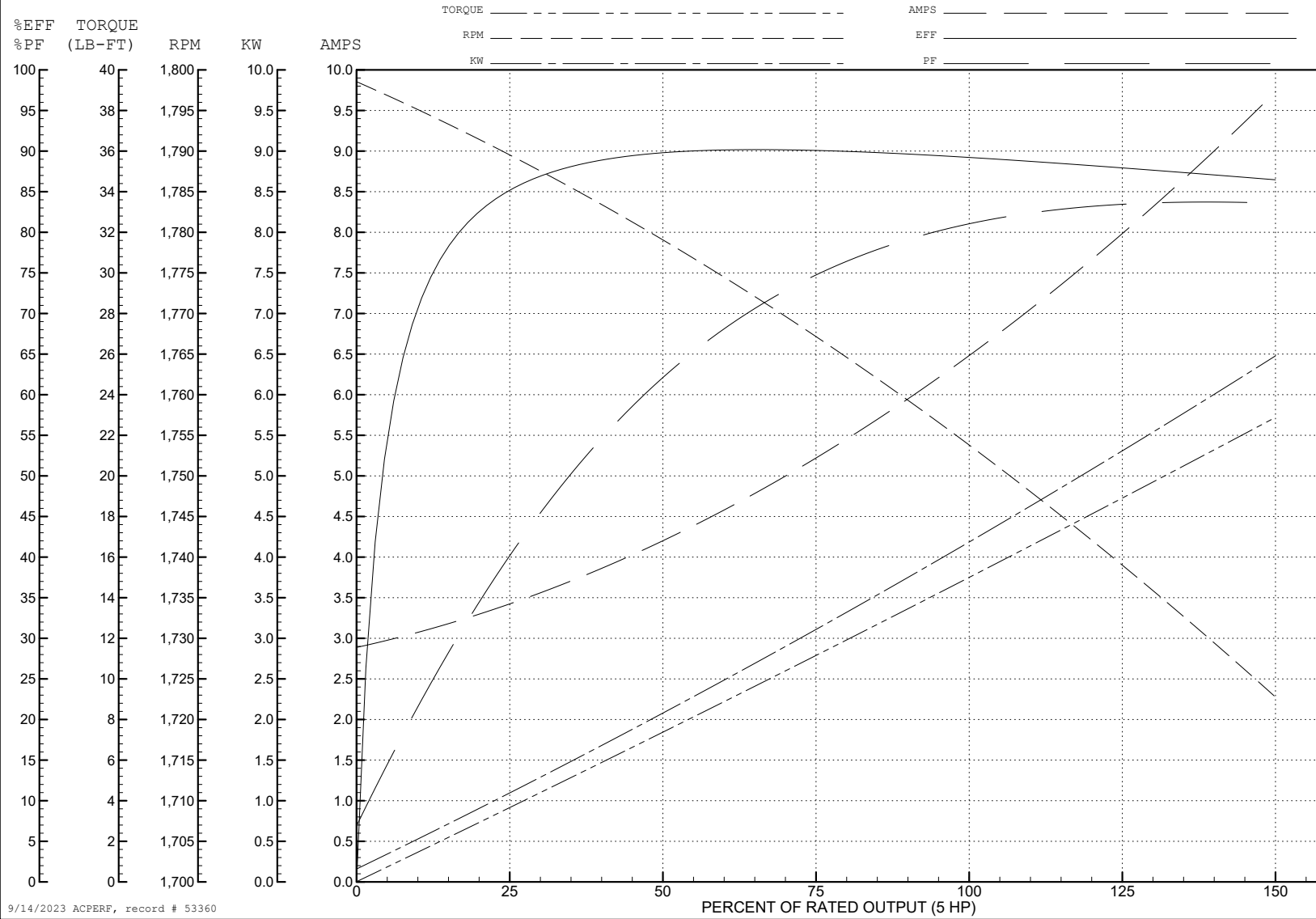
ABB Motors and Mechanical Inc.

WINDING # 36WGS270

5 HP 3 PH 60 HZ 1750 RPM 460 V 3640M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=44.8 PU=25.5 LR=30.1 LRA=44.8



9/14/2023 ACPERF, record # 53360



**AC Induction Motor Performance Data**

Record # 86108

Typical performance - not guaranteed values

<b>Winding: 36WGS270-R004</b>		<b>Type: 3640M</b>		<b>Enclosure: OPSB</b>	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: Low Voltage Connection</b>		
<b>Rated Output (HP)</b>	5	<b>Full Load Torque</b>	15.05 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	13.2/6.6	<b>Breakdown Torque</b>	44.8 LB-FT		
<b>R.P.M.</b>	1750	<b>Pull-up Torque</b>	25.5 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	30.1 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	J	<b>Starting Current</b>	89.6 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	5.94 A		
<b>NEMA Nom. Eff.</b>	89.5 <b>Power Factor</b>	80	<b>Line-line Res. @ 25°C</b>	0.656 Ω	
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	44°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	54°C		
		<b>Locked-rotor Power Factor</b>	40.8		
		<b>Rotor inertia</b>	0.372 lb-ft <sup>2</sup>		

**Load Characteristics 230 V, 60 Hz, 5 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	42	64	75	80	83	84	82
<b>Efficiency</b>	84.3	89.2	89.7	89.6	88.2	86.2	88.8
<b>Speed</b>	1789	1779	1767	1754	1740	1722	1746
<b>Line amperes</b>	6.66	8.28	10.52	13.18	16.1	19.36	14.9

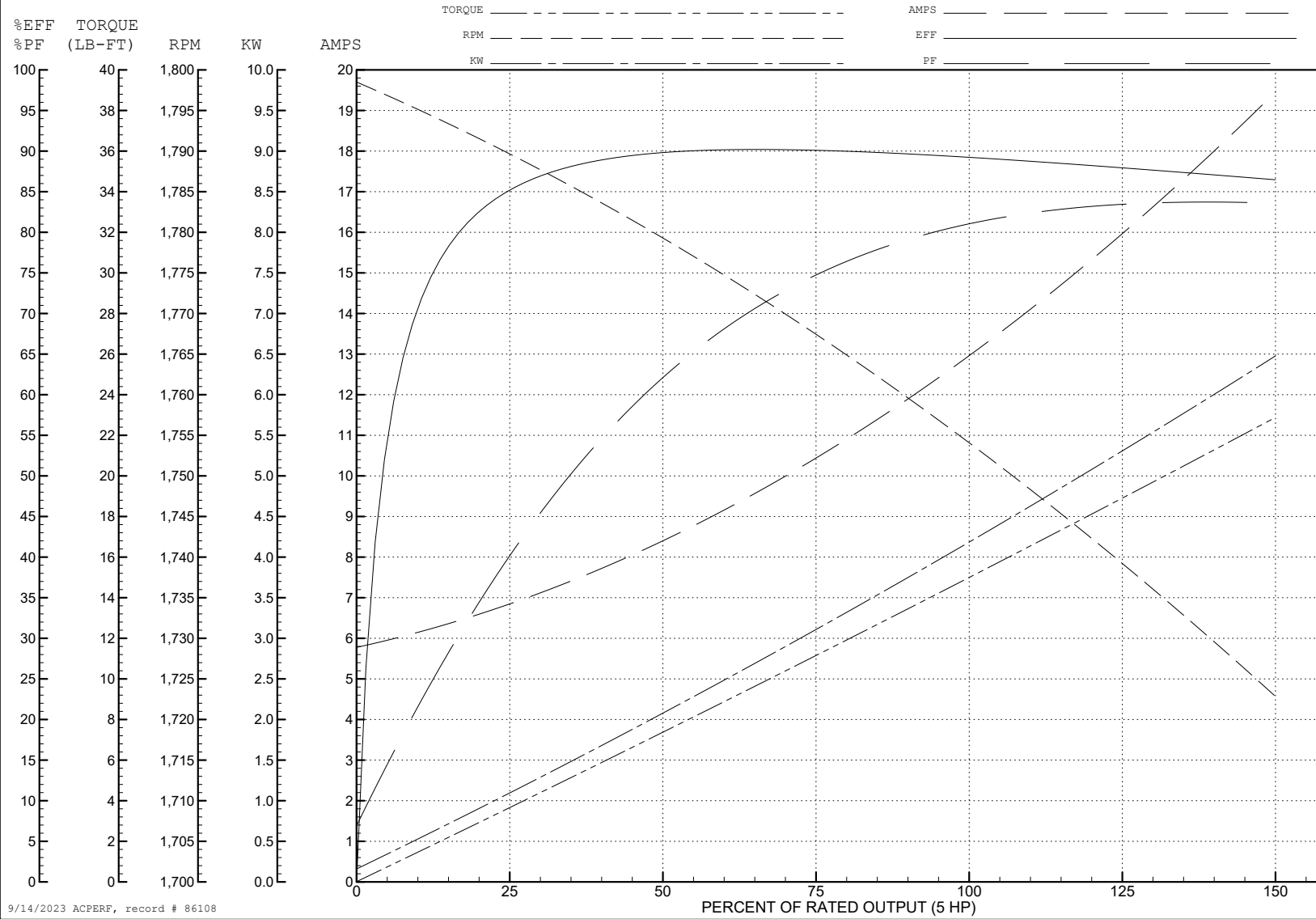
ABB Motors and Mechanical Inc.

WINDING # 36WGS270

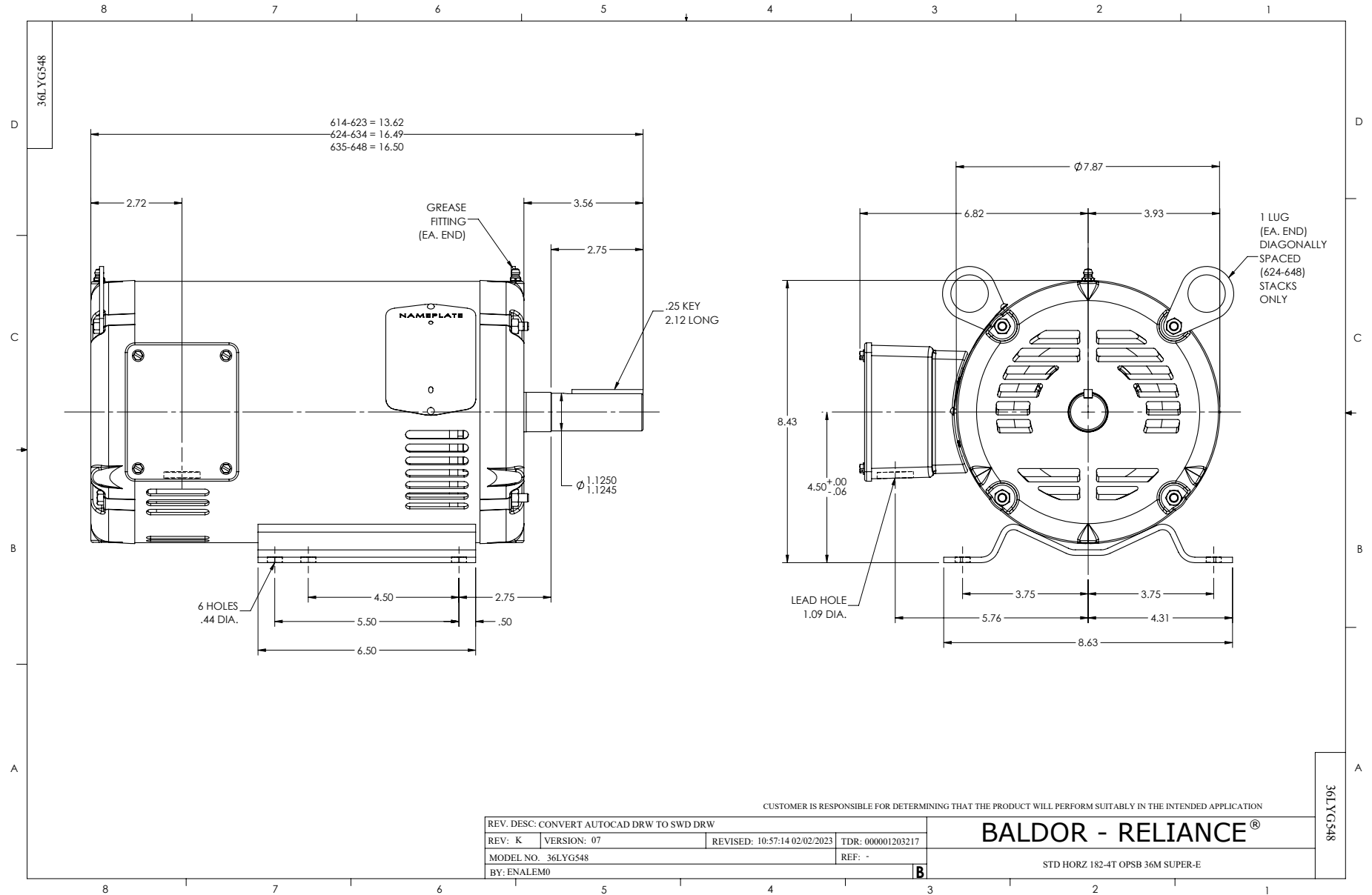
Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 230 V 3640M

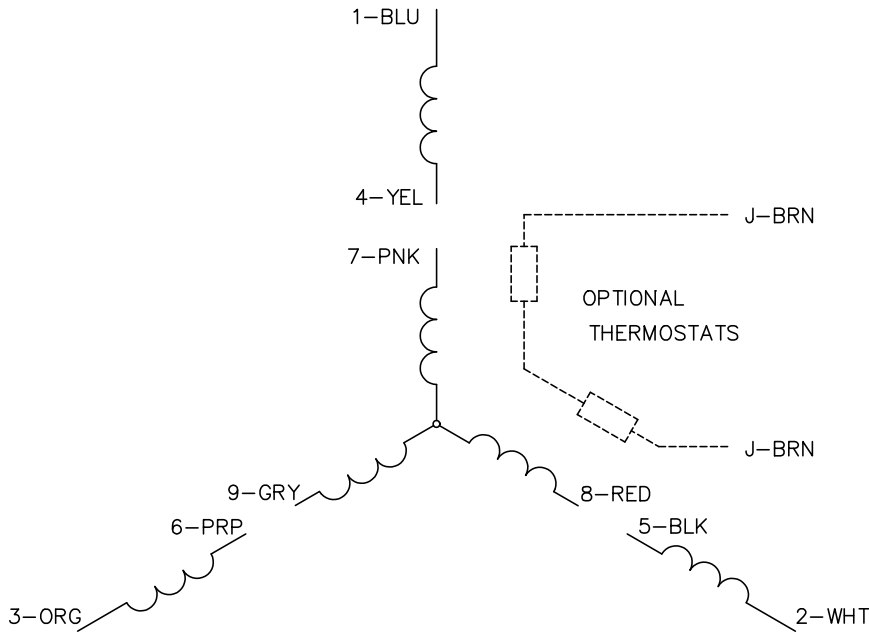
TORQUES (LB-FT): PO=44.8 PU=25.5 LR=30.1 LRA=89.6



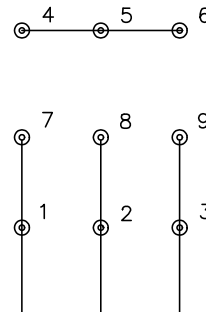
9/14/2023 ACPERF, record # 86108



CD0005

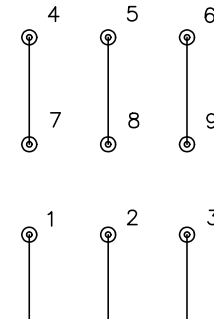


LOW VOLTAGE  
(2Y)



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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS