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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
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
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	AC
Type	AC
Mech. spec.	36G548
Base	
Status	PRD/A
Elec. spec.	36WGS270
Layout	36LYG548
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	03-24-2010

<b>Front Face Code</b>	Standard
<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	6.6 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	J
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	9 @ 16 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3640M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	16.50 IN
<b>Power Factor</b>	80
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.125 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1750 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	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**

<b>NP3553LUA</b>										
<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>ENCL</b>	OPSB	<b>SN</b>								
<b>DE</b>	6206	<b>ODE</b>	6205							
<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							<b>SF1.0</b>		

**Accessories**

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

**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

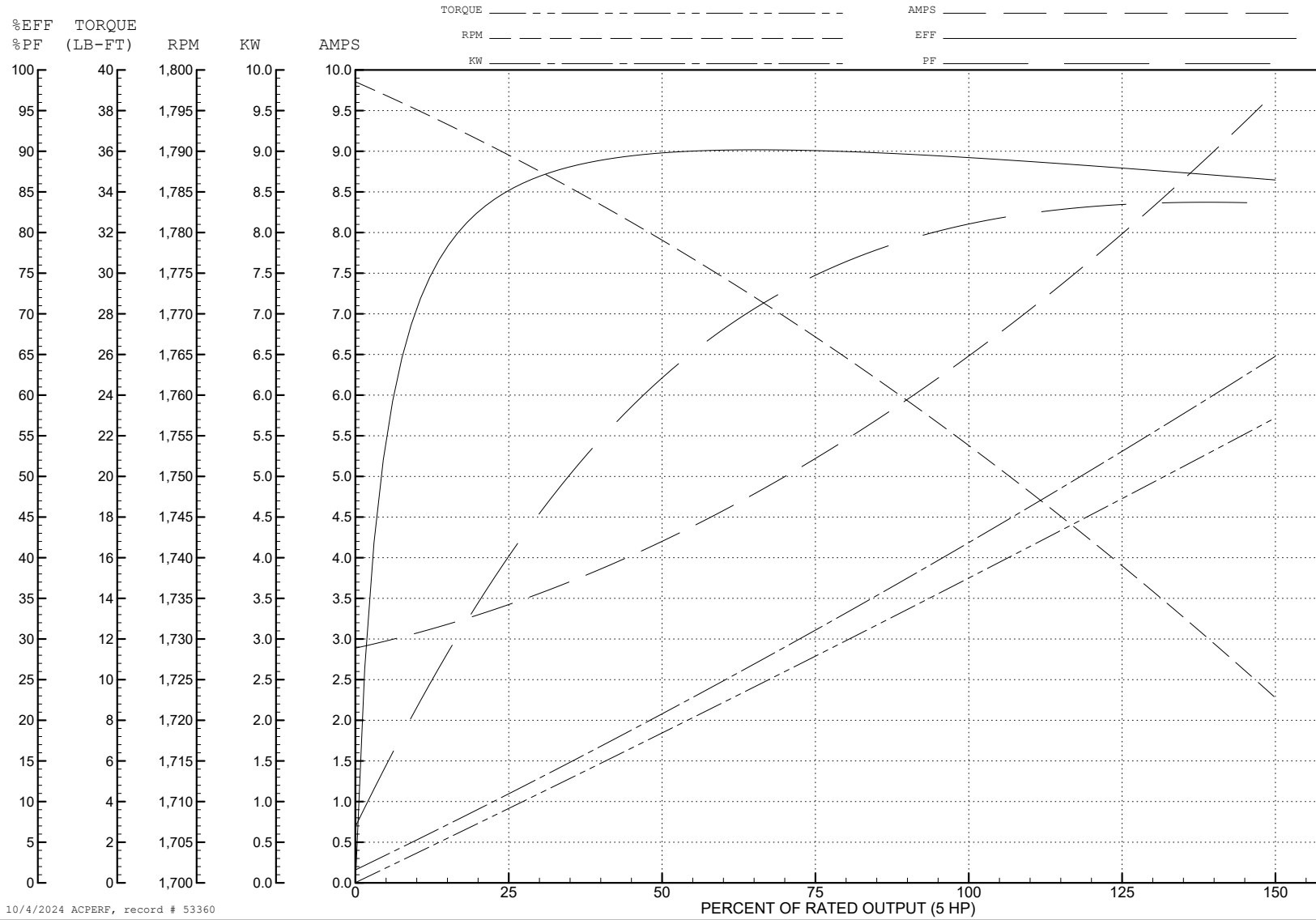
ABB Motors and Mechanical Inc.

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



10/4/2024 ACPERF, record # 53360



**AC Induction Motor Performance Data**

Record # 86108

Typical performance - not guaranteed values

Winding: 36WGS270-R004		Type: 3640M	Enclosure: OPSB	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: Low 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	89.6 A	
Service Factor (S.F.)	1.15	No-load Current	5.94 A	
NEMA Nom. Eff.	89.5 Power Factor	Line-line Res. @ 25°C	0.656 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	44°C	
S.F. Amps		Temp. Rise @ S.F. Load	54°C	
		Locked-rotor Power Factor	40.8	
		Rotor inertia	0.372 lb-ft <sup>2</sup>	

**Load Characteristics 230 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	84.3	89.2	89.7	89.6	88.2	86.2	88.8
Speed	1789	1779	1767	1754	1740	1722	1746
Line amperes	6.66	8.28	10.52	13.18	16.1	19.36	14.9

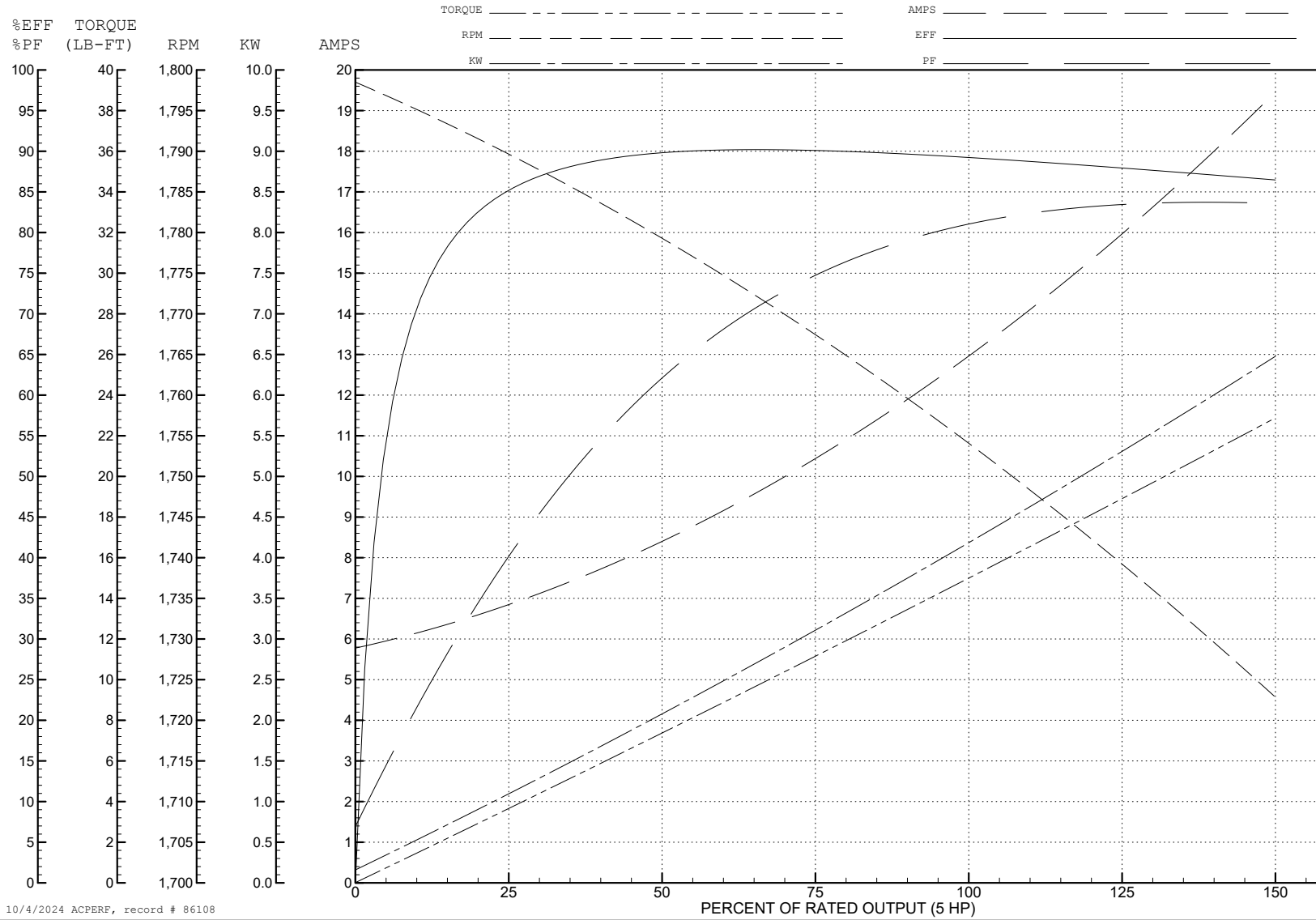
ABB Motors and Mechanical Inc.

WINDING # 36WGS270

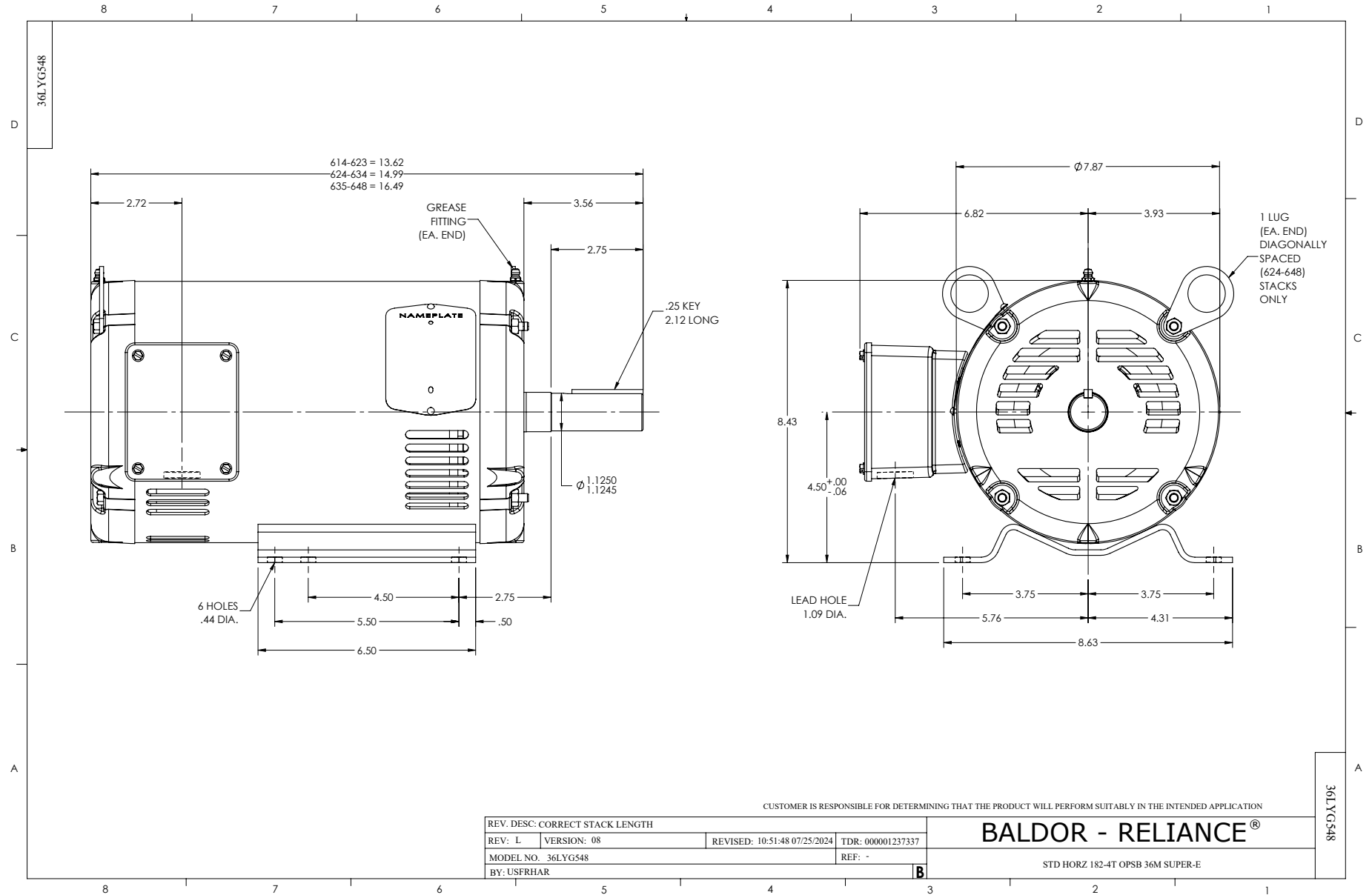
5 HP 3 PH 60 HZ 1750 RPM 230 V 3640M

Typical performance - not guaranteed values.

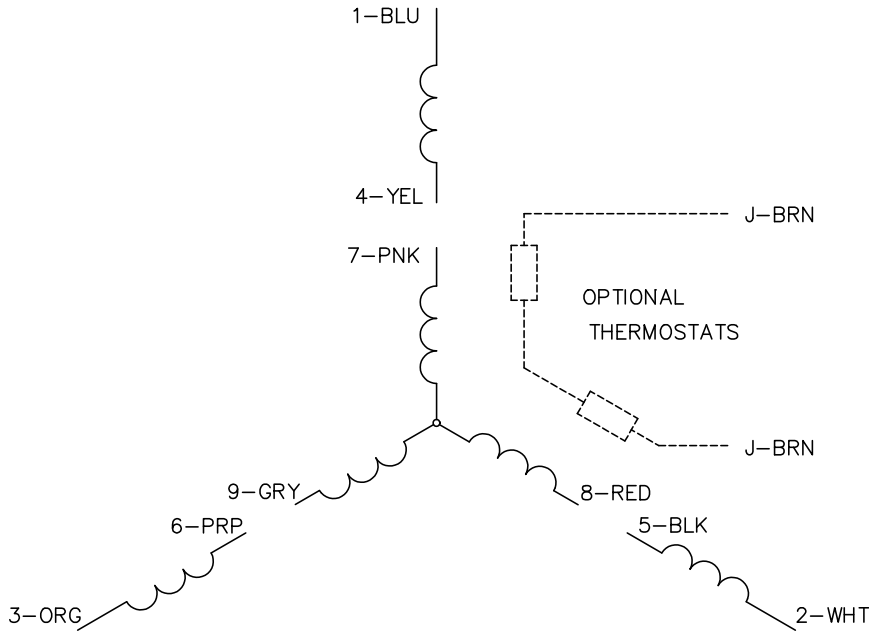
TORQUES (LB-FT): PO=44.8 PU=25.5 LR=30.1 LRA=89.6



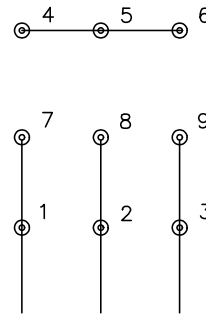
10/4/2024 ACPERF, record # 86108



CD0005

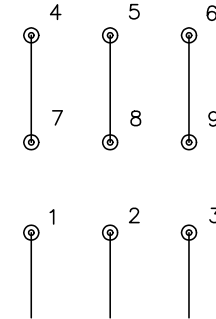


LOW VOLTAGE  
(2Y)



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