ABB BALDOR RELIANCE

Customer information packet

PSC3524A

.5HP, 1625RPM, 1PH, 60HZ, 48Z, 3418C, TEAO, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	48Z
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Oil Capacitor Start and Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	3.000 A @ 230.0 V
	6.000 A @ 115.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	65.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.0 a
Insulation Class	B

Part Detail

Revision	V
Type	AC
Mech. spec.	34G144
Base	
Status	PRD/A
Elec. spec.	34WGW538
Layout	34LYG144
Eff. date	04-30-2025
CD Diagram	CD0028
Poles	04
Leads	7#18
Proprietary	False
Created date	01-01-0001

Inverter Code	Not Inverter
KVA Code	-
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3418C
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.96 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1625 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Nameplate

NP1257L								
CAT.NO.	PSC3524A							
SPEC.	34G144W538							
HP	.5 AIR OVER							
VOLTS	115/230							
AMP	6/3							
RPM	1625							
FRAME	48Z	**HZ**	60	**PH**	1			
SER.F.	1.00	**CODE**	-	**DES**	-	**CL**	B	
NEMA-NOM-EFF	65	**PF**	81					
RATING	40C AMB-CONT							
CC								
DE	6203	**ODE**	6203					
ENCL	TEAO	**SN**						

AC Induction Motor Performance Data
Record # 7013
Typical performance - not guaranteed values

Winding: 34WGW538-R001	**Type:** 3418C	**Enclosure:** TEAO

Nameplate Data			**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		.5 AIR OVER	**Full Load Torque**	1.6 LB-FT
Volts		115/230	**Start Configuration**	direct on line
Full Load Amps		6/3	**Breakdown Torque**	2.4 LB-FT
R.P.M.		1625	**Pull-up Torque**	0.6 LB-FT
Hz	60 **Phase**	1	**Locked-rotor Torque**	0.8 LB-FT
NEMA Design Code	- **KVA Code**	-	**Starting Current**	1.5 A
Service Factor (S.F.)		1	**No-load Current**	1.4 A
NEMA Nom. Eff.	65 **Power Factor**	81	**Line-line Res. @ 25ºC**	6.28 Ω A Ph 16 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**
Power Factor	58	72	81	87	90
Efficiency	44.3	60.9	67.2	67.9	63.3
Speed	1758	1720	1675	1615	1521
Line amperes	1.6	1.85	2.25	2.75	3.55

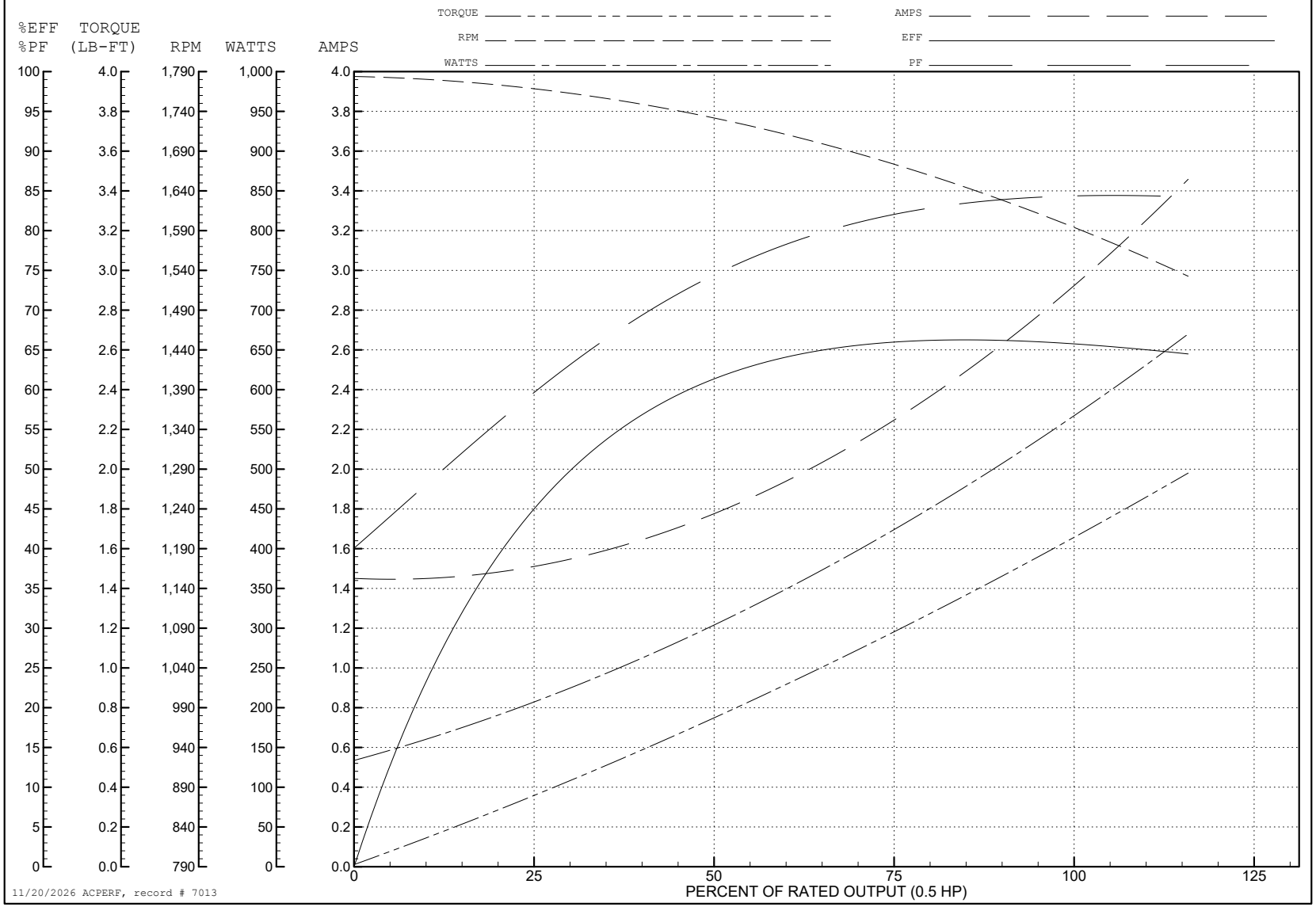
ABB Motors and Mechanical Inc.

WINDING # 34WGW538

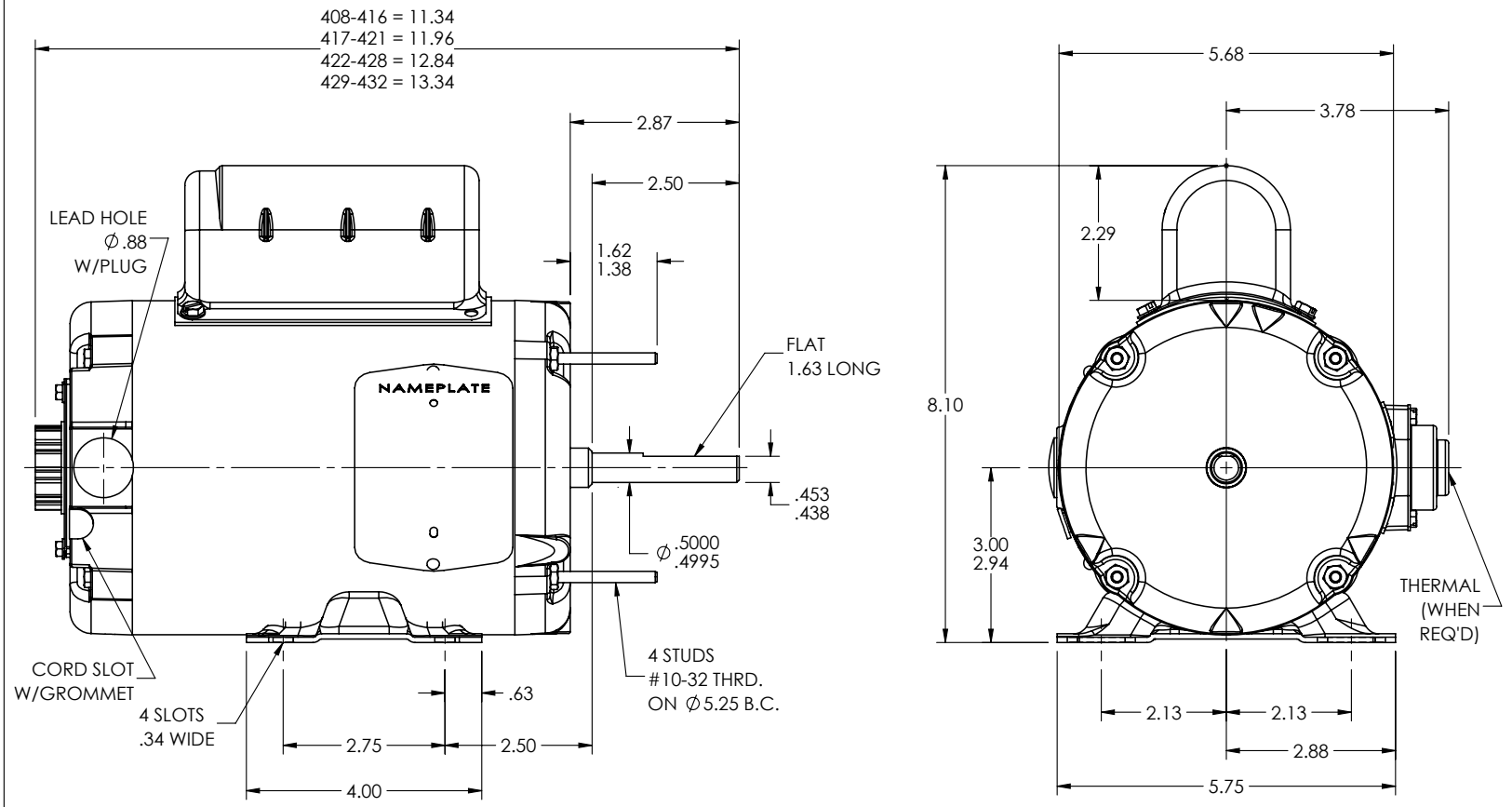
0.5 HP 1 PH 60 HZ 1625 RPM 230 V 3418C

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=2.4 PU=0.6 LR=0.8 LRA=1.5



34LYG144



34LYG144

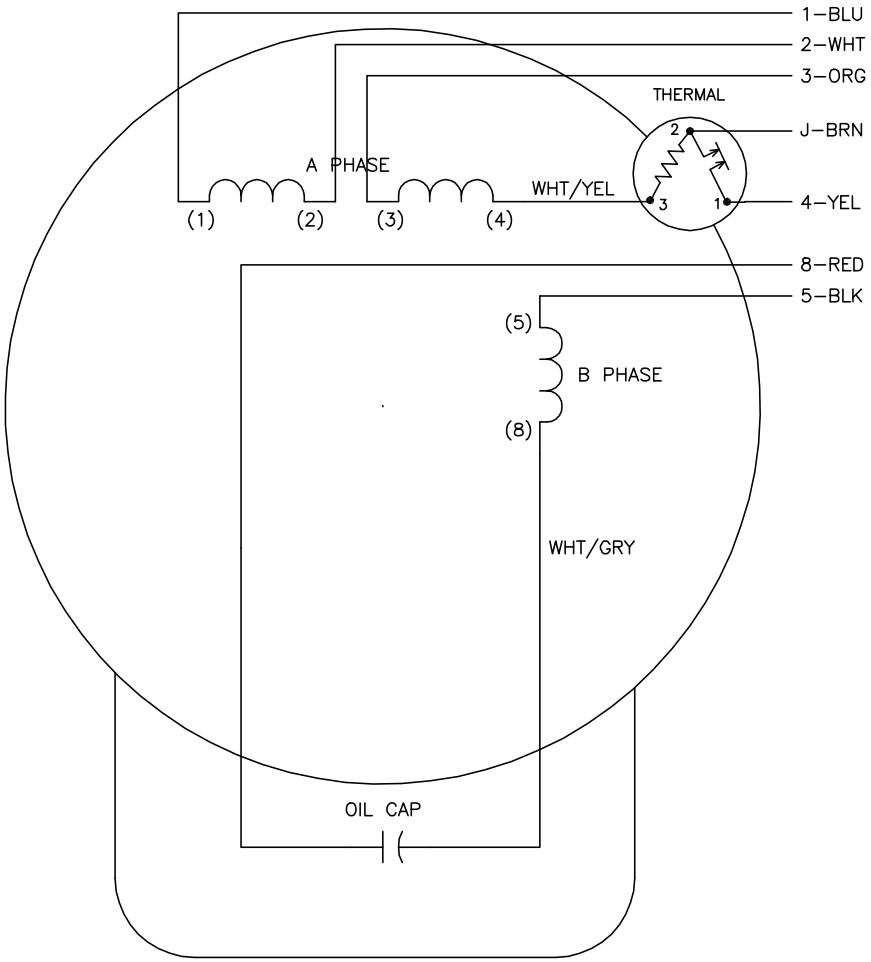
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: LOAD TO SOLIDWORKS - REV E			
REV: F	VERSION: 02	REVISED: 10:15:24 03/15/2023	TDR: 000001201165
34LYG144	MODEL NO. 34LYG144		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

HORZ MODEL 34C NEMA 48Z TENV W/EXTENDED T-BOLTS & TERM PANEL

CD0028



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J,8
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,J,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0028

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: E	VERSION: 01	TDR: 000000373051	
CD0028	FILE: \AAA\00007\413	REVISED: 15:17:57 09/07/2005	TYPE C, DV, REV, THERMAL, 7 LEADS
	MTL: –	BY: ENJOEP0	