

ABB BALDOR RELIANCE III

Customer information packet

PSC3524A

.5HP, 1625RPM, 1PH, 60HZ, 48Z, 3418C, TEAO, F1

Class - None

Division - Not Applicable

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							

Parts List

Part number	Description	Quantity
SA006249	SA 34G144W538	1.000 ea
RA002995	RA 34G144W538	1.000 ea
RM1001A01	GROMMET "MIDSTATES"	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
34EP3204A01SP	FR ENDPLATE, MACH	1.000 ea
SP1000A09	TERM BOARD, MODEL 34 SW, (RPL SP1000A01)	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3102A02SP	FR/PU ENDPLATE, MACH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
34GS1005	GASKET, TERM PLATE LID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
OC3012F12SP	CYL OIL CAP 12MFD/370V	1.000 ea
33CB4800A02	CAPACITOR COVER, STAMPED	1.000 ea
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 ea
HA3100A19	THRUBOLT 10-32 X 9.625	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0008	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	2.000 ea
PK3085X	FOAM SHAFT SUPPORT PRECUT 4-1/4 X 6-3/4	1.000 ea

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	Line-line Res. @ 25°C		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

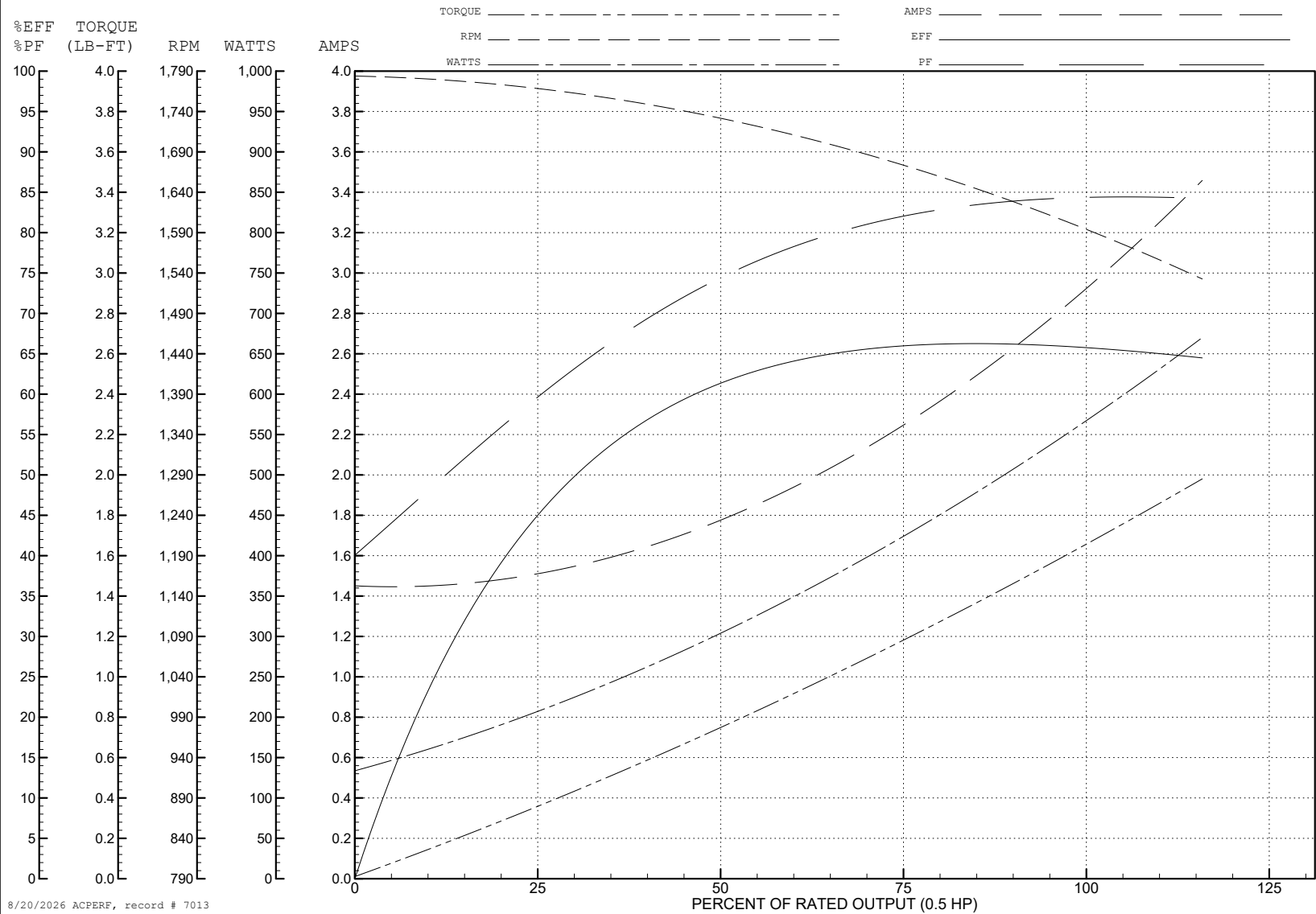
ABB Motors and Mechanical Inc.

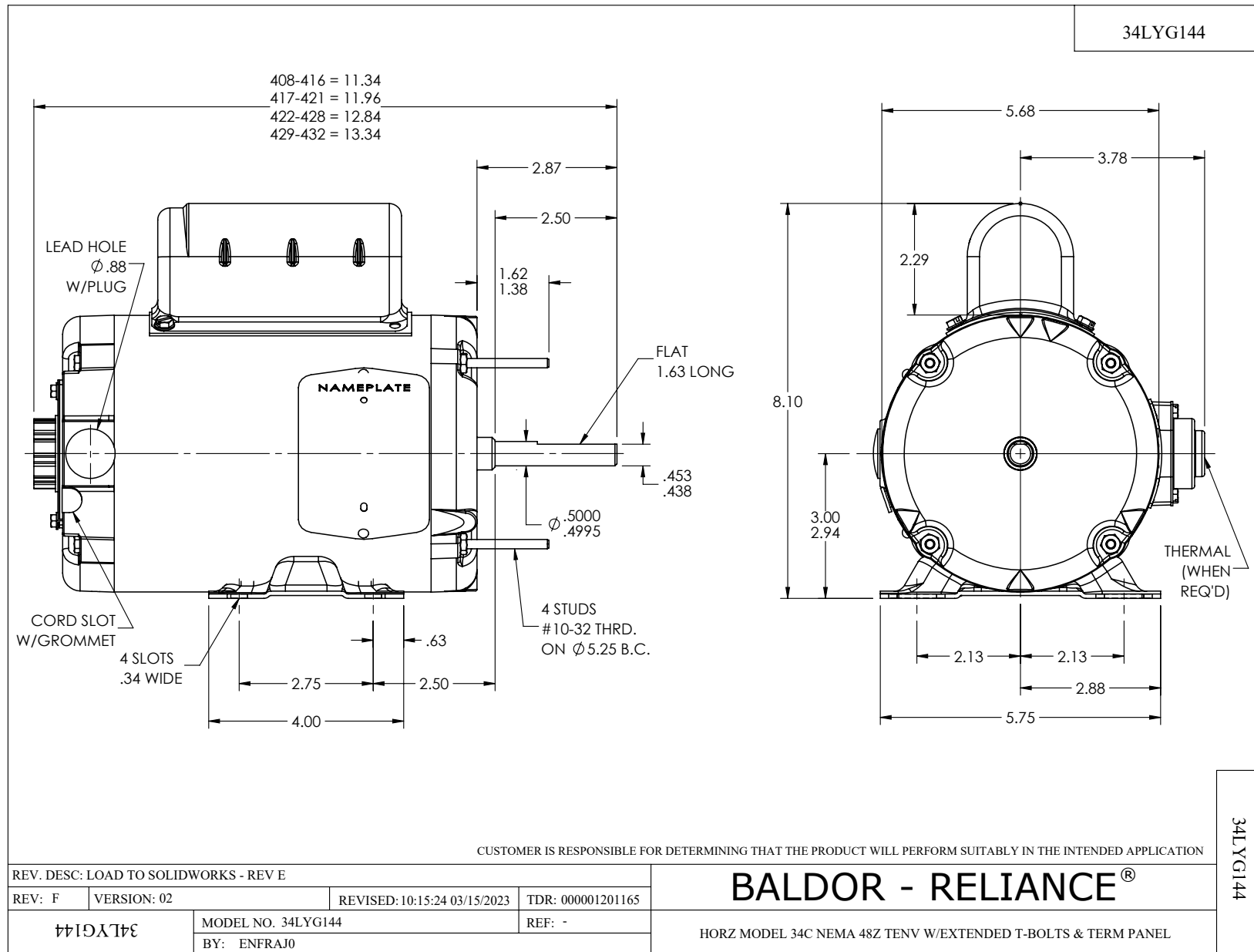
WINDING # 34WG538

Typical performance - not guaranteed values.

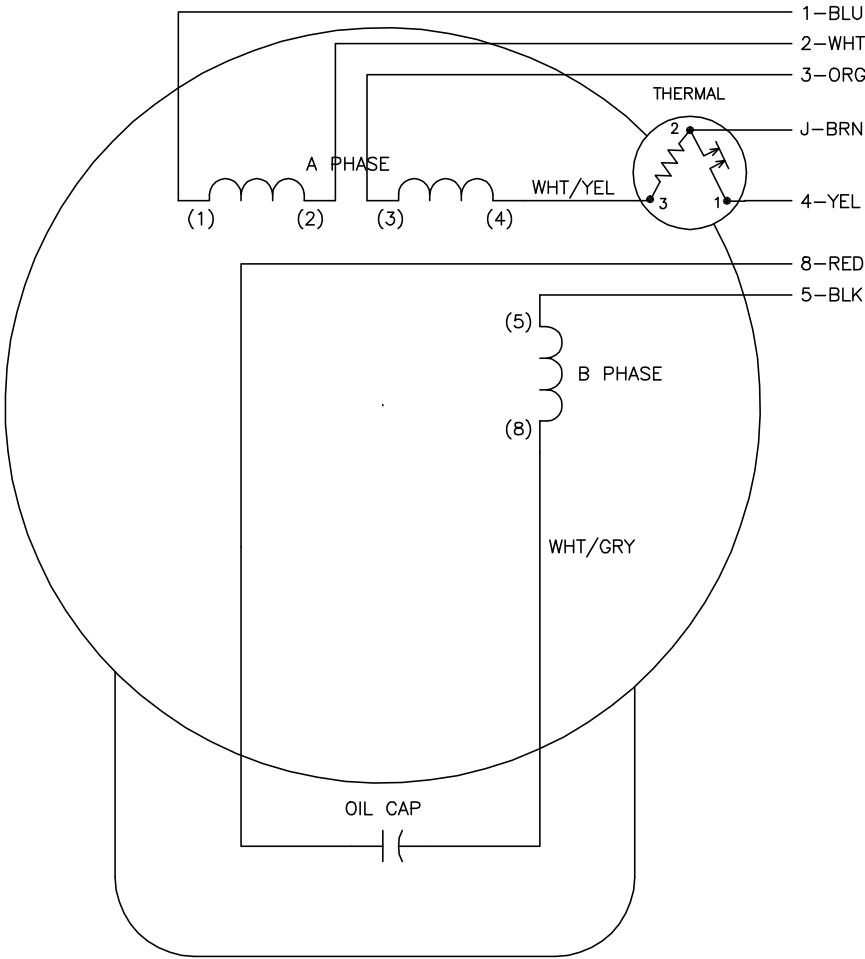
0.5 HP 1 PH 60 HZ 1625 RPM 230 V 3418C

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





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.

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION		
REV. LTR: E	VERSION: 01	TDR: 000000373051
8Z00D0	FILE: \AAA\00007\413	REVISED: 15:17:57 09/07/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE C, DV, REV, THERMAL, 7 LEADS

CD0028