ABB BALDOR RELIANCE

Customer information packet

CHC345A

.5HP, 1700RPM, 1PH, 60HZ, 56YZ, 3420C, TEAO, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	56YZ
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	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.600 A @ 230.0 V
	2.800 A @ 208.0 V
	5.200 A @ 115.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.6 a

Part Detail

Revision	M
Type	AC
Mech. spec.	34M244
Base	
Status	PRD/A
Elec. spec.	34WGR058
Layout	34LYM244
Eff. date	10-28-2024
CD Diagram	CD0381
Poles	04
Leads	7#18
Proprietary	False
Created date	07-31-2013

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
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	None
Motor Standards	NEMA
Motor Type	3420C
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.70 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	1700 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	EP

Nameplate

NP1257L									
CAT.NO.	CHC345A								
SPEC.	34M244R058G1								
HP	.5								
VOLTS	115/230								
AMP	5.2/2.6								
RPM	1700								
FRAME	56YZ		**HZ**	60		**PH**	1		
SER.F.	1.15	**CODE**	H	**DES**	-	**CL**	B		
NEMA-NOM-EFF	72	**PF**	86						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	TEAO	**SN**							

AC Induction Motor Performance Data
Record # 42880
Typical performance - not guaranteed values

Winding: 34WGR058-R001	**Type:** 3420C	**Enclosure:** TEAO

Nameplate Data			**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		.5 AIR OVER	**Full Load Torque**	1.54 LB-FT
Volts		115/230	**Start Configuration**	direct on line
Full Load Amps		5.2/2.6	**Breakdown Torque**	4.37 LB-FT
R.P.M.		1700	**Pull-up Torque**	0.568 LB-FT
Hz	60 **Phase**	1	**Locked-rotor Torque**	0.706 LB-FT
NEMA Design Code	- **KVA Code**	H	**Starting Current**	13.8 A
Service Factor (S.F.)		1.15	**No-load Current**	1.57 A
NEMA Nom. Eff.	72 **Power Factor**	86	**Line-line Res. @ 25ºC**	5.6083 Ω A Ph 4.1514 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**	**150**	**S.F.**
Power Factor	58	70	80	86	89	91	88
Efficiency	44.4	64.9	69.5	73.4	75.1	75.3	74.4
Speed	1785.8	1775.6	1759.8	1744.3	1725.4	1705.7	1733
Line amperes	1.67	1.87	2.25	2.64	3.09	3.57	2.91

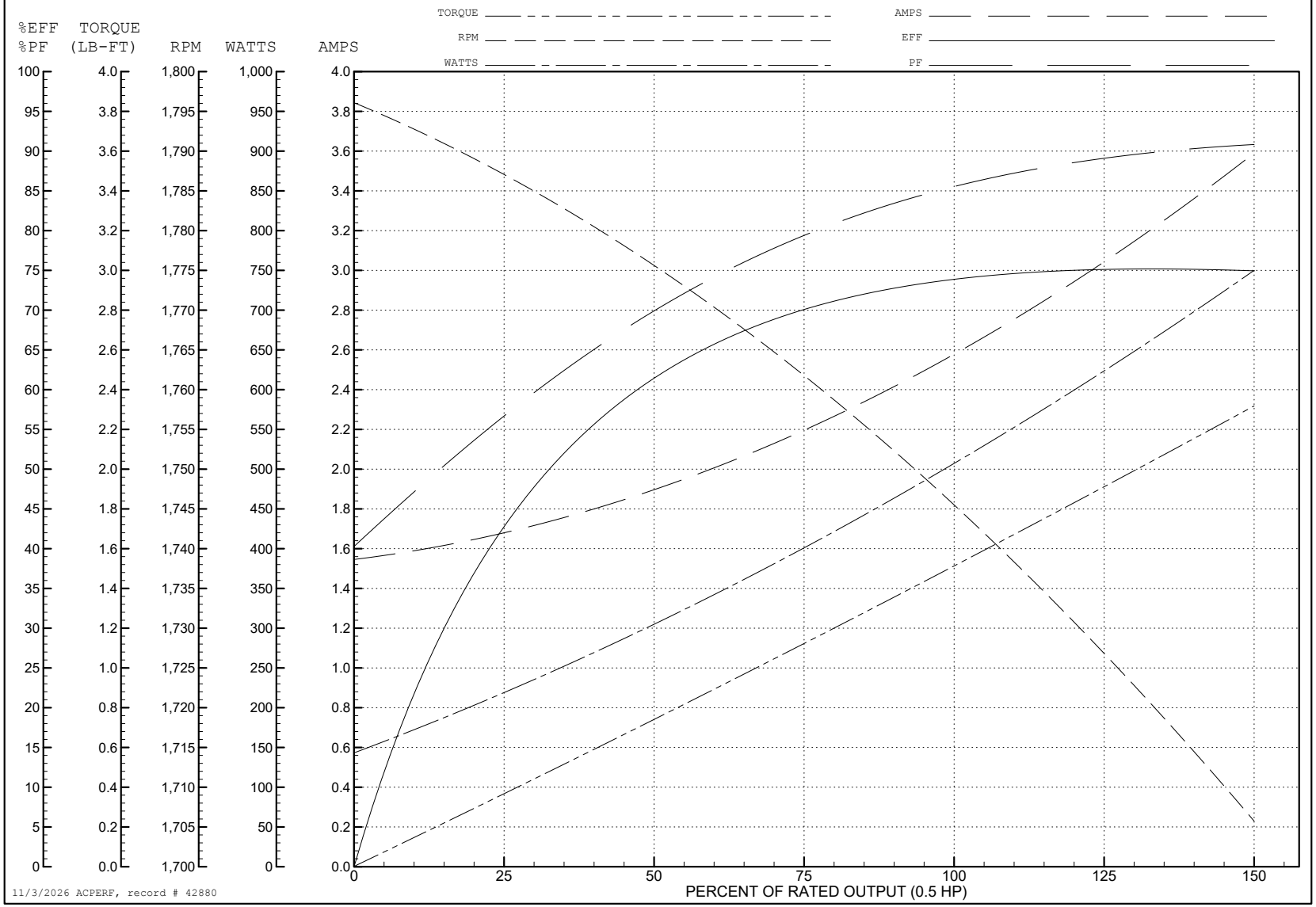
ABB Motors and Mechanical Inc.

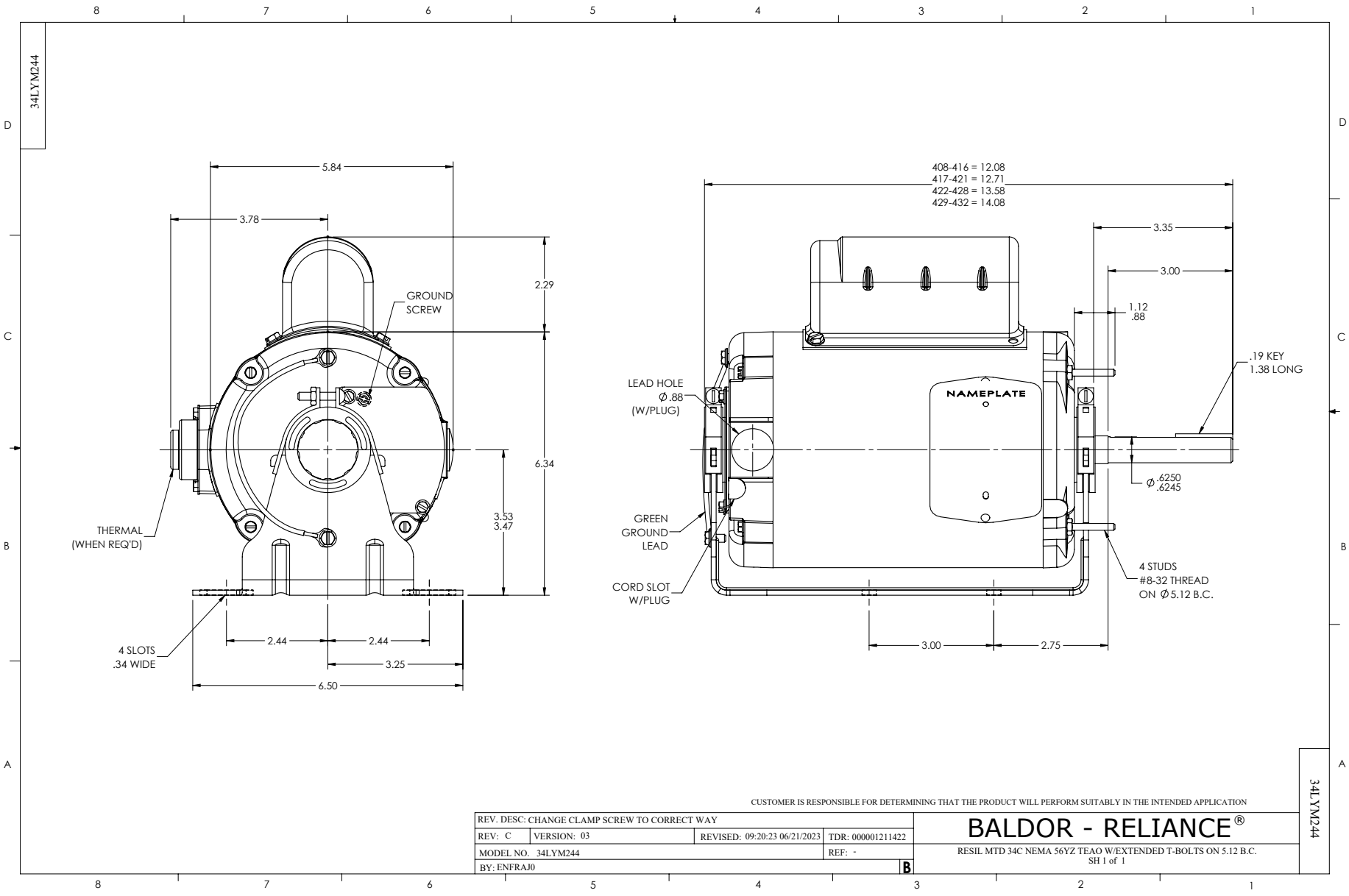
WINDING # 34WGR058

0.5 HP 1 PH 60 HZ 1700 RPM 230 V 3420C

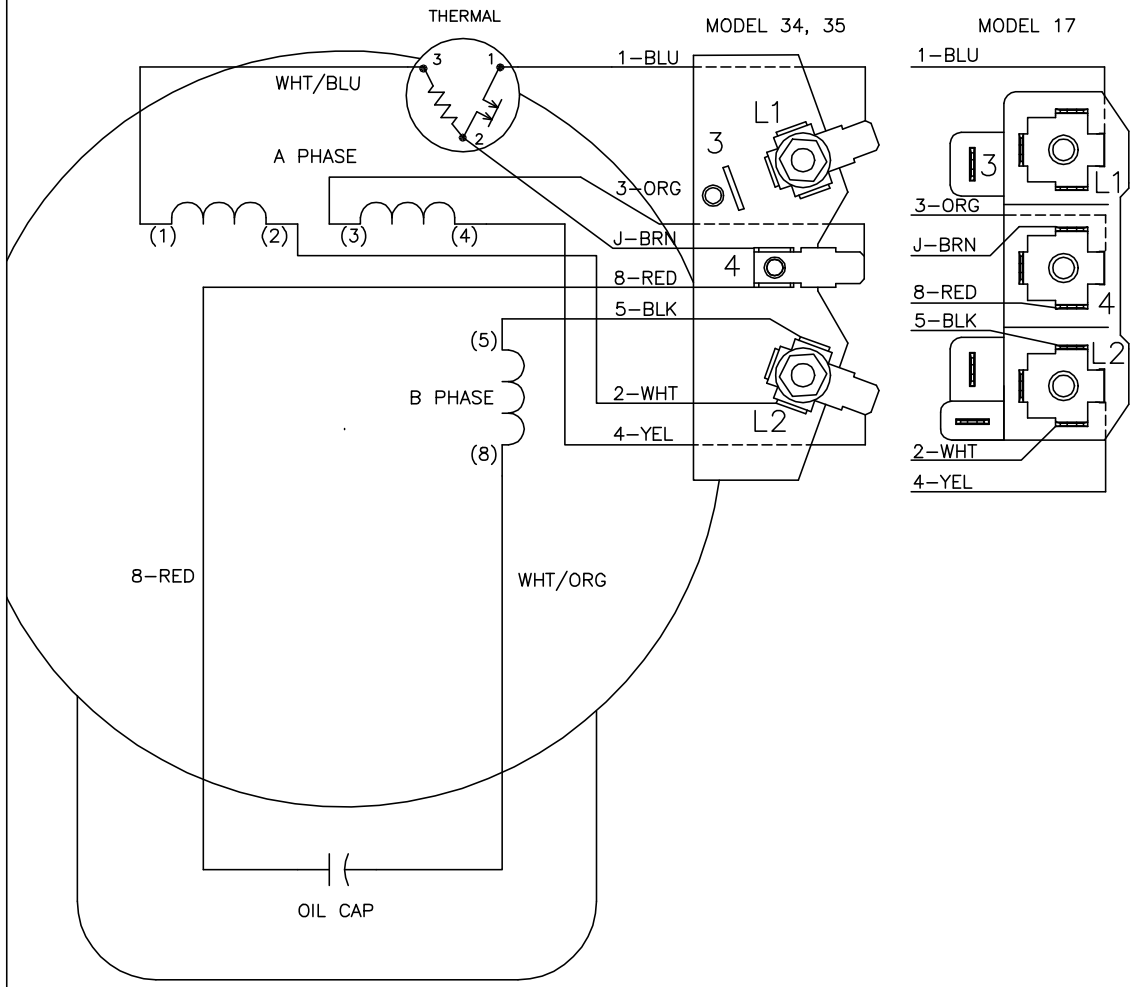
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.37 PU=0.568 LR=0.706 LRA=13.8




34LYM244
5.84
3.78
2.29
GROUND SCREW
6.34
3.53
3.47
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.44
2.44
3.25
6.50
408-416 = 12.08
417-421 = 12.71
422-428 = 13.58
429-432 = 14.08
3.35
3.00
1.12
.88
.19 KEY
1.38 LONG
LEAD HOLE Ø.88 (W/PLUG)
NAMEPLATE
Ø.6250
.6245
GREEN GROUND LEAD
CORD SLOT W/PLUG
4 STUDS #8-32 THREAD ON Ø5.12 B.C.
3.00
2.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: C
VERSION: 03
REVISED: 09:20:23 06/21/2023
TDR: 000001211422
MODEL NO. 34LYM244
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
RESIL MTD 34C NEMA 56YZ TEAO W/EXTENDED T-BOLTS ON 5.12 B.C.
SH 1 of 1
34LYM244

CD0381



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
   LOW VOLTAGE: CONNECT AS SHOWN.
   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3. MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0381

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000373051	
CD0381	FILE: \AAA\00007\119	REVISED: 08:56:57 09/08/2005	TYPE C, DV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	

CD0381