ABB BALDOR RELIANCE

Customer information packet

CHM345A

.5HP, 1725RPM, 3PH, 60HZ, 56YZ, 3416M, 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	Three Phase
Output @ Frequency	.500 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	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	1.100 A @ 460.0 V
	2.200 A @ 230.0 V
	2.300 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	N
Type	AC
Mech. spec.	34M249
Base	
Status	PRD/A
Elec. spec.	34WGR073
Layout	34LYM249
Eff. date	10-28-2024
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	06-17-2013

High Voltage Full Load Amps	1.1 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.08 IN
Power Factor	63
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	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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.	CHM345A										
SPEC.	34M249R073G1										
HP	.5										
VOLTS	230/460										
AMP	2.2/1.1										
RPM	1725										
FRAME	56YZ		**HZ**	60		**PH**	3				
SER.F.	1.25	**CODE**	M	**DES**	B	**CL**	B				
NEMA-NOM-EFF	66	**PF**	63								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	TEAO	**SN**									
	SFA 2.4/1.2										

AC Induction Motor Performance Data
Record # 42463
Typical performance - not guaranteed values

Winding: 34WGR073-R001	**Type:** 3416M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5 AIR OVER	**Full Load Torque**	1.53 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			2.2/1.1	**Breakdown Torque**	6.36 LB-FT
R.P.M.			1725	**Pull-up Torque**	4.73 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.62 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	6.84 A
Service Factor (S.F.)			1.25	**No-load Current**	0.883 A
NEMA Nom. Eff.	66	**Power Factor**	63	**Line-line Res. @ 25ºC**	34.071 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
S.F. Amps			2.4/1.2	**Temp. Rise @ S.F. Load**	
				Locked-rotor Power Factor	66
				Rotor inertia	0.0381 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	45	54	63	69	74	69
Efficiency	41.7	55.9	63.3	67	69.3	69.8	69.3
Speed	1781.1	1767.1	1754.9	1739.5	1725.4	1709	1725
Line amperes	0.899	0.954	1.03	1.12	1.22	1.34	1.22

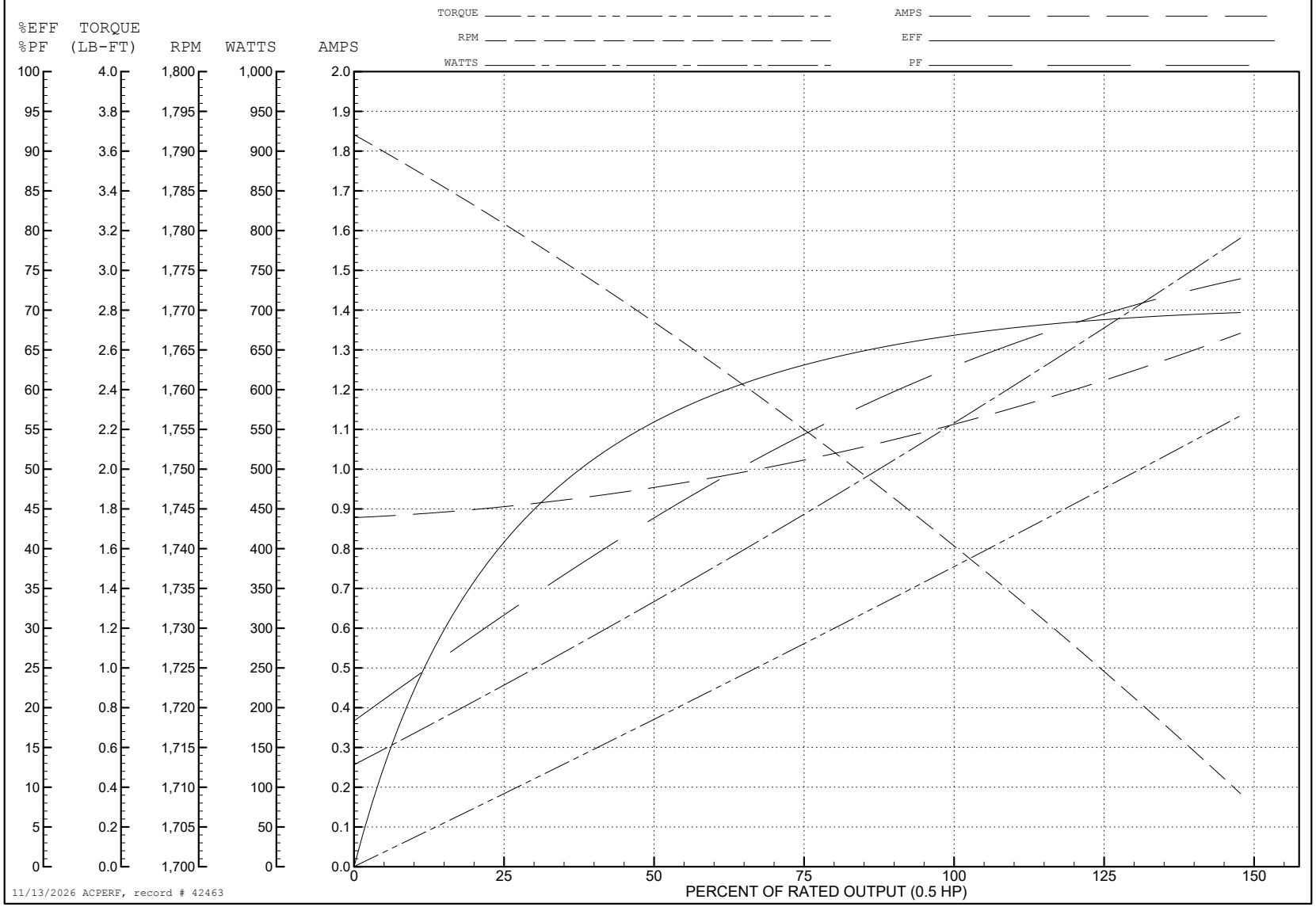
ABB Motors and Mechanical Inc.

WINDING # 34WGR073

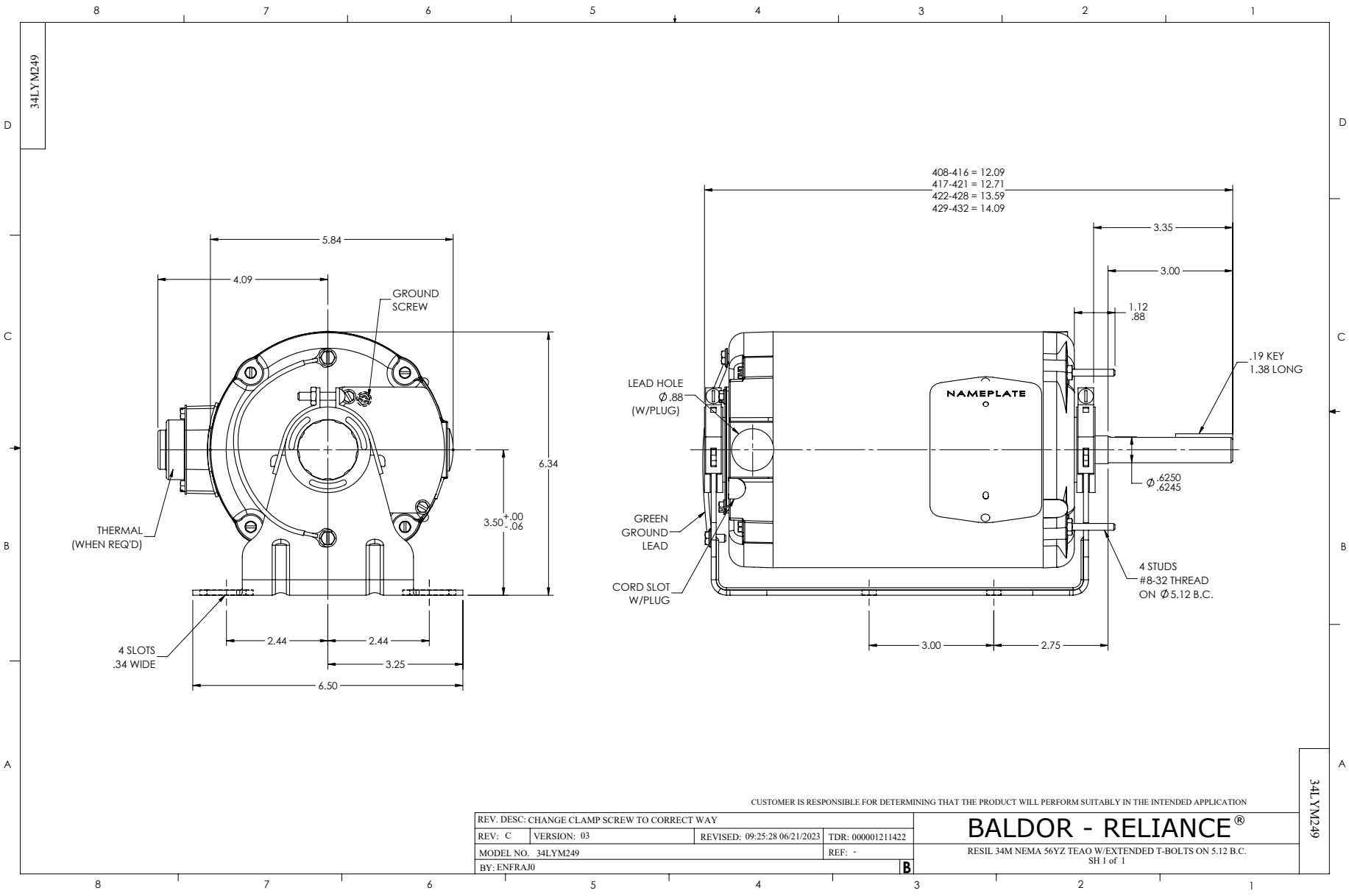
0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3416M

Typical performance - not guaranteed values.

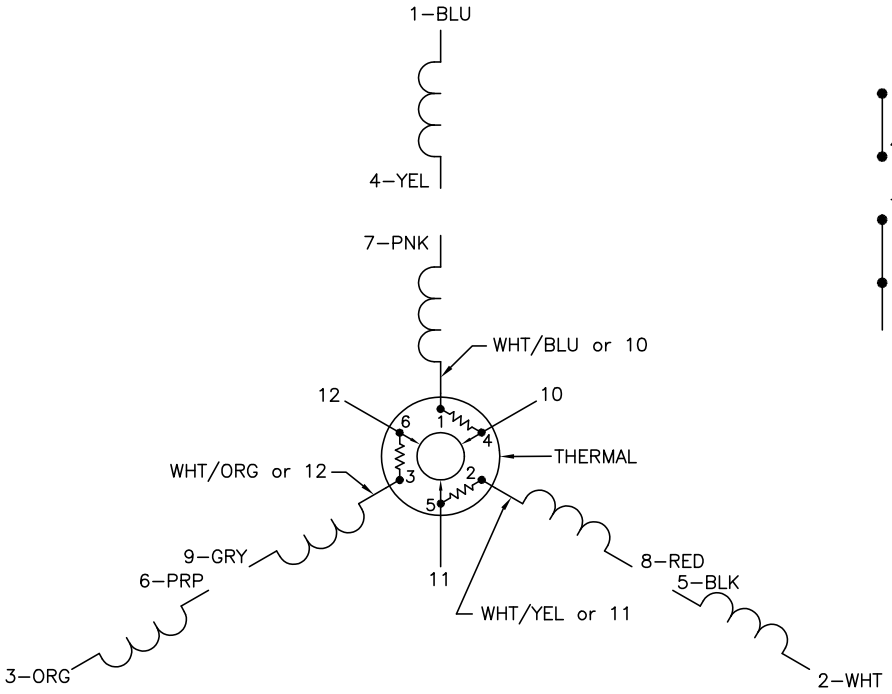
TORQUES(LB-FT): PO=6.36 PU=4.73 LR=5.62 LRA=6.84

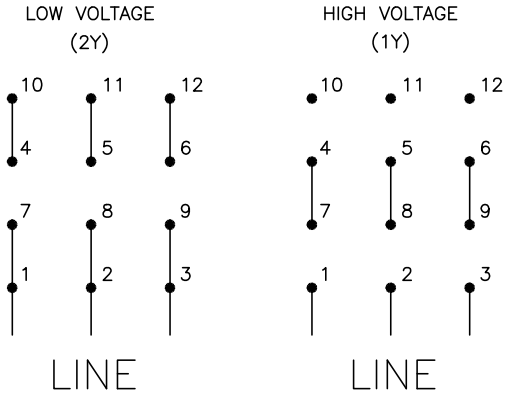


11/13/2026 ACPERF, record # 42463


34LYM249
5.84
4.09
GROUND SCREW
6.34
3.50 +.00 -.06
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.44
2.44
3.25
6.50
408-416 = 12.09
417-421 = 12.71
422-428 = 13.59
429-432 = 14.09
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: 09:25:28 06/21/2023
TDR: 000001211422
MODEL NO. 34LYM249
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
RESIL 34M NEMA 56YZ TEAO W/EXTENDED T-BOLTS ON 5.12 B.C.
SH 1 of 1
34LYM249

CD0007





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE			BALDOR ELECTRIC Co.
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
CD0007		FILE: AAA00008370	MDL: –
		MTL: –	3PH, DV, THERMAL, 12 LEADS

CD0007