ABB BALDOR RELIANCE

Customer information packet

AOM3454

.25HP, 1735RPM, 3PH, 60HZ, 48, 3410M, TEAO, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	48
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	.250 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
	UR
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	.600 A @ 460.0 V
	1.100 A @ 208.0 V
	1.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.6 a

Part Detail

Revision	E
Type	AC
Mech. spec.	34K099
Base	
Status	PRD/A
Elec. spec.	34WGR713
Layout	34LYK099
Eff. date	03-12-2026
CD Diagram	CD0005
Poles	04
Leads	9#18 36" LONG Y
Proprietary	False
Created date	02-05-2021

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3410M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	9.63 IN
Power Factor	63
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1735 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	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.	AOM3454								
SPEC.	34K099R713								
HP	.25								
VOLTS	230/460								
AMP	1.2/.6								
RPM	1735								
FRAME	48	**HZ**	60			**PH**	3		
SER.F.	1.00	**CODE**	L	**DES**	B	**CLASS**	B		
NEMA-NOM-EFF	62	**PF**	63						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	TEAO	**SN**							
	800 FPM AT 44 CFM								

Accessories

Part number	Description	Multiplier
34-3900T	C-FACE KIT	A8

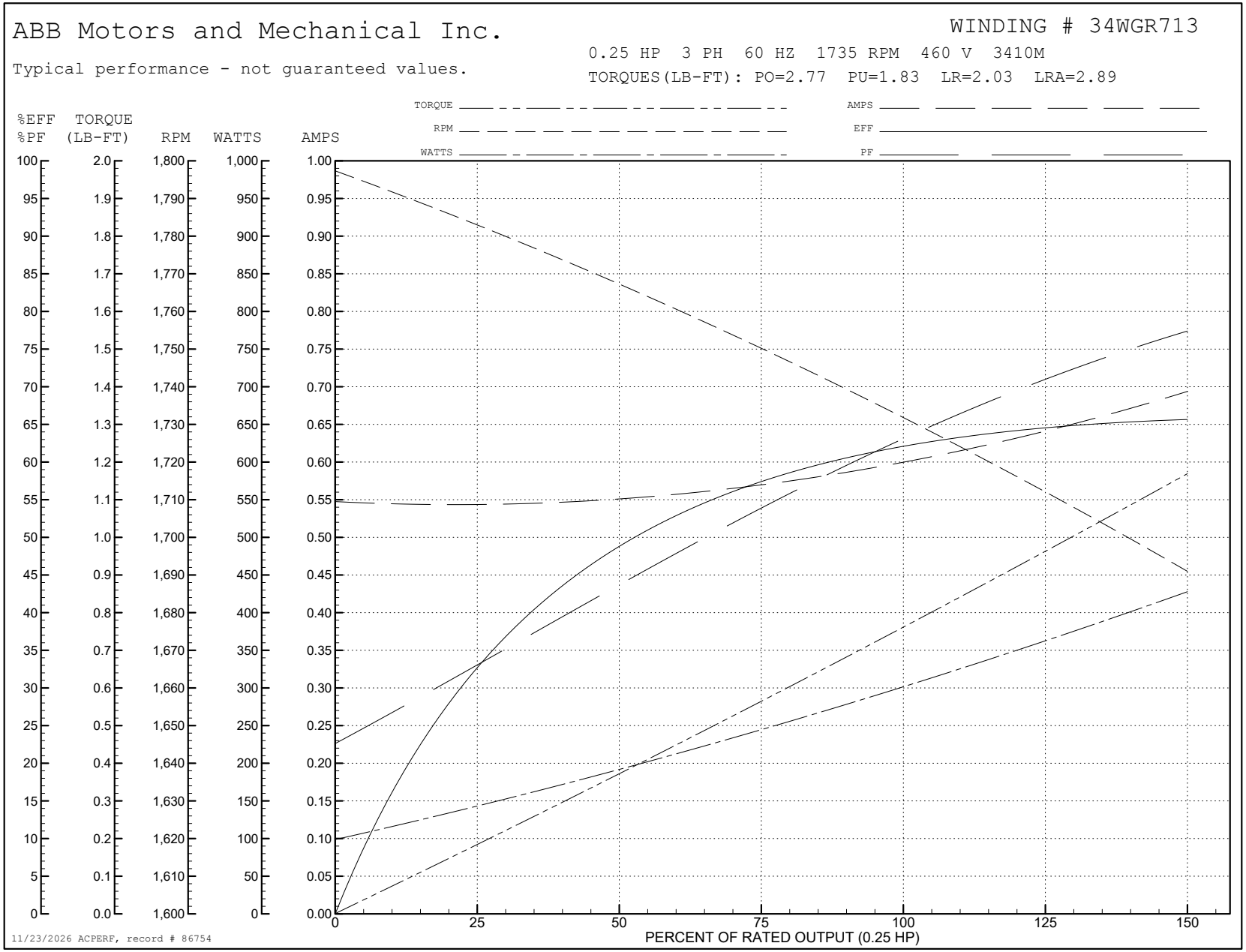
AC Induction Motor Performance Data
Record # 86754
Preliminary Data Sheet

Winding: 34WGR713-R003	**Type:** 3410M	**Enclosure:** TEFC

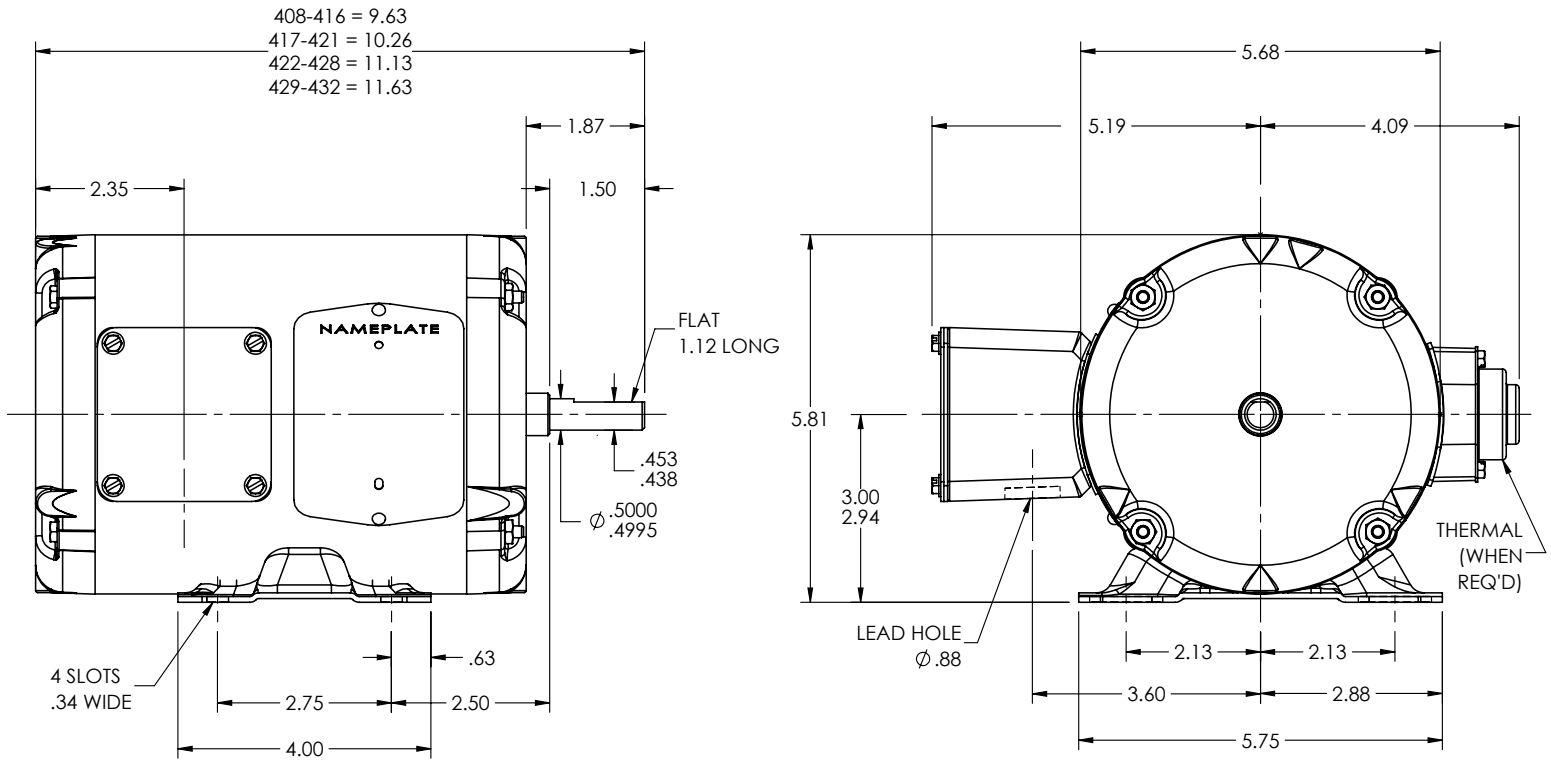
Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			0.25	**Full Load Torque**	0.76 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.2/0.6	**Breakdown Torque**	2.77 LB-FT
R.P.M.			1735	**Pull-up Torque**	1.83 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	2.03 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	2.89 A
Service Factor (S.F.)			1	**No-load Current**	0.545 A
NEMA Nom. Eff.	63.4	**Power Factor**	63	**Line-line Res. @ 25ºC**	98.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
				Locked-rotor Power Factor	84.1
				Rotor inertia	0.0238 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	33	43	54	63	71	78
Efficiency	34.9	50.2	58.6	63.4	65.6	66.1
Speed	1781	1767	1751	1733	1713	1690
Line amperes	0.547	0.552	0.568	0.598	0.64	0.695


ABB Motors and Mechanical Inc.
WINDING # 34WGR713
Typical performance - not guaranteed values.
0.25 HP 3 PH 60 HZ 1735 RPM 460 V 3410M
TORQUES(LB-FT): PO=2.77 PU=1.83 LR=2.03 LRA=2.89
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.25 HP)
11/23/2026 ACPERF, record # 86754

34LYK099

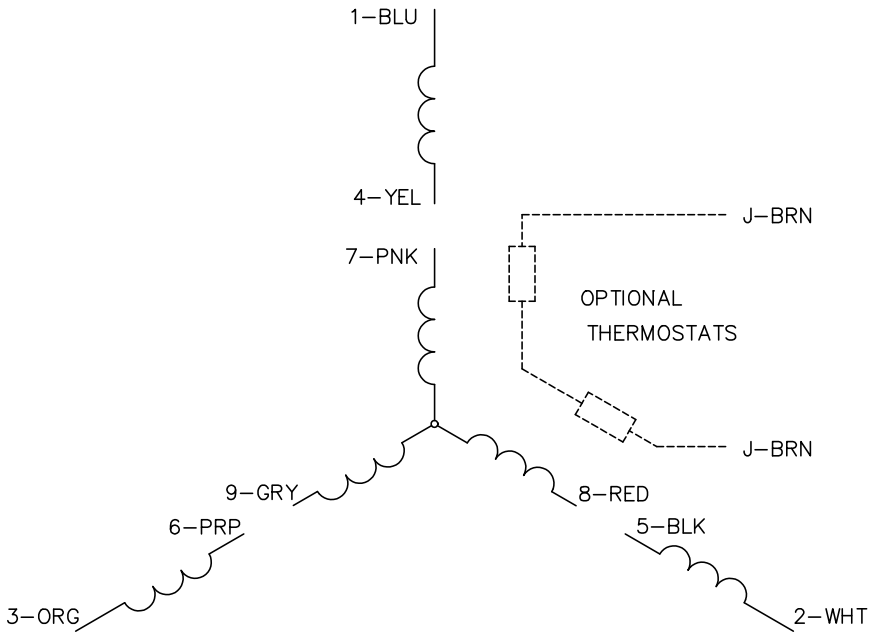


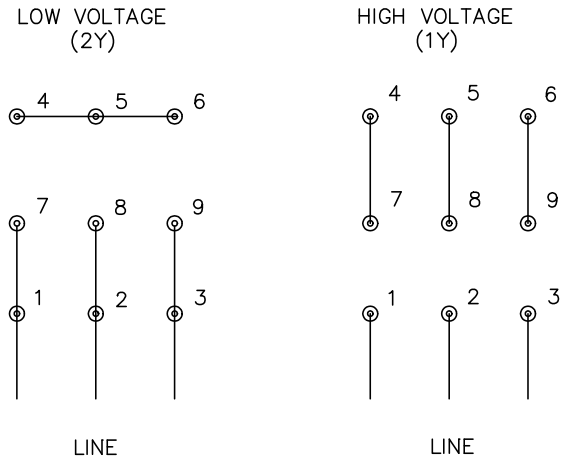
34LYK099

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

REV. DESC: LOAD TO SOLIDWORKS - REV F			BALDOR - RELIANCE®
REV: G	VERSION: 02	REVISED: 11:36:30 01/03/2023	TDR: 000001201165
34LYK099	MODEL NO. 34LYK099		REF: -
	BY: ENFRAJ0		STD HORZ MODEL 34M NEMA 48 TEAO

CD0005





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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS