ABB BALDOR RELIANCE

Customer information packet

AFM3530

1.5HP, 3450RPM, 3PH, 60HZ, 143TZ, 3424M, TEAO
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	143TZ
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 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	4.900 A @ 208.0 V
	4.600 A @ 230.0 V
	2.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	K
Type	AC
Mech. spec.	34K954
Base	
Status	PRD/A
Elec. spec.	34WG0283
Layout	34LYK954
Eff. date	01-02-2025
CD Diagram	CD0005
Poles	02
Leads	9#18 14" minimum Y
Proprietary	False
Created date	10-18-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.45 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Nameplate

NP1279L									
CAT.NO.	AFM3530								
SPEC.	34K954-0283G1								
HP	1.5								
VOLTS	208-230/460								
AMP	4.9-4.6/2.3								
RPM	3450								
FRAME	143TZ	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	B		
NEMA-NOM-EFF	80	**PF**	74						
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TEAO	**SN**							

AC Induction Motor Performance Data
Record # 33039
Typical performance - not guaranteed values

Winding: 34WG0283-R018	**Type:** 3424M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	2.25 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			4.9-4.6/2.3	**Breakdown Torque**	10.6 LB-FT
R.P.M.			3450	**Pull-up Torque**	10 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	11.7 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	18.4 A
Service Factor (S.F.)			1.15	**No-load Current**	1.4 A
NEMA Nom. Eff.	80	**Power Factor**	74	**Line-line Res. @ 25ºC**	8.53 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	71°C
S.F. Amps				**Temp. Rise @ S.F. Load**	83°C
				Locked-rotor Power Factor	67
				Rotor inertia	0.0223 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	57	68	76	81	84	79
Efficiency	70.7	79.6	81.8	82.3	81.7	80.6	81.9
Speed	3564	3533	3501	3466	3429	3394	3444
Line amperes	1.5	1.7	2	2.3	2.7	3	2.54

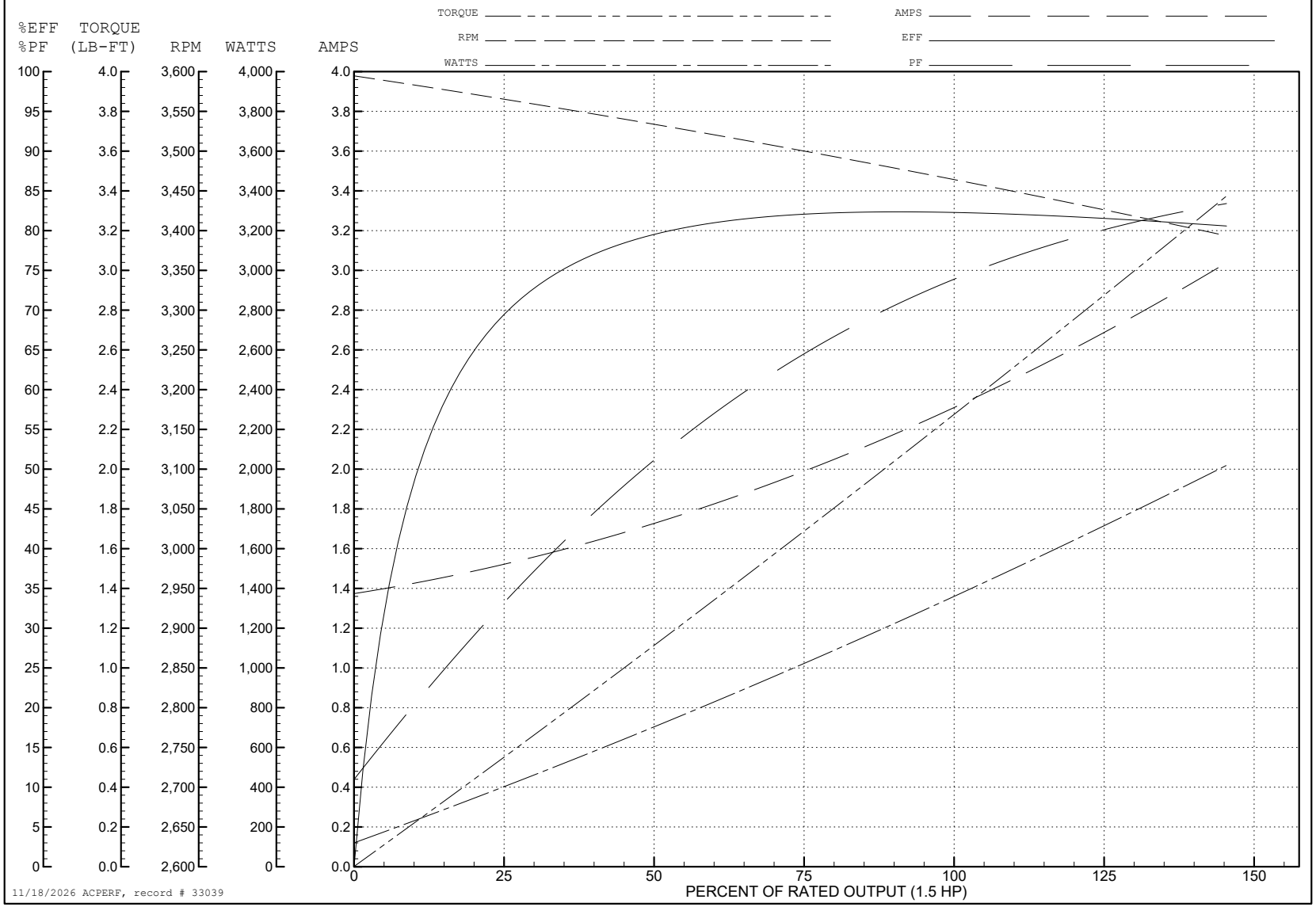
ABB Motors and Mechanical Inc.

WINDING # 34WG0283

1.5 HP 3 PH 60 HZ 3450 RPM 460 V 3424M

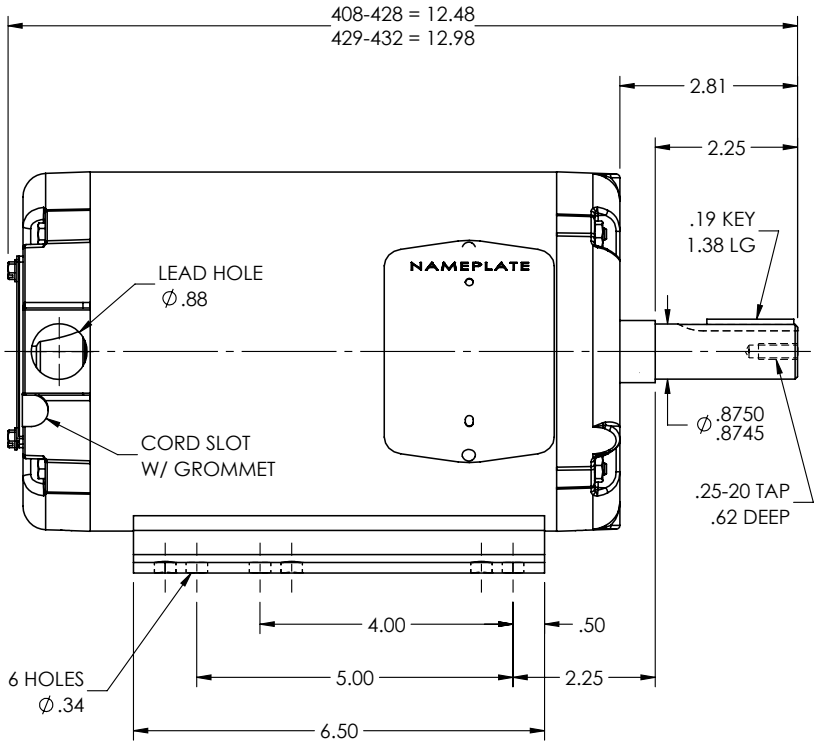
Typical performance - not guaranteed values.

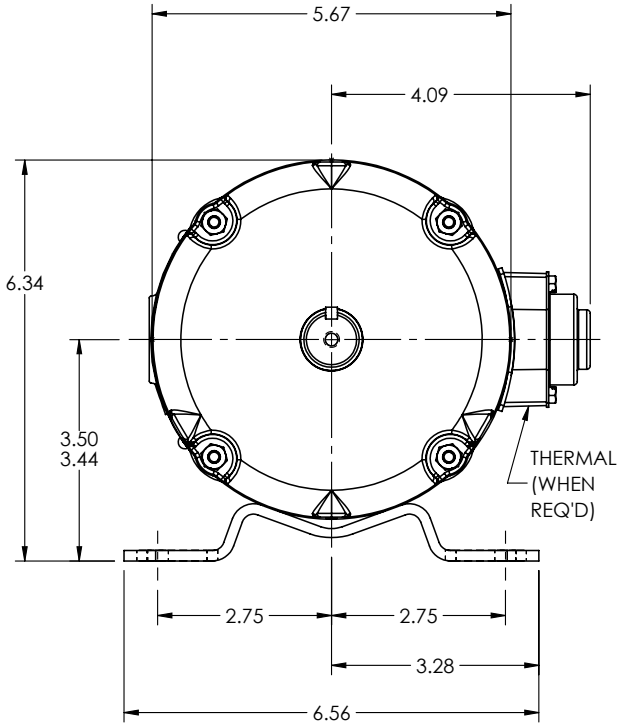
TORQUES(LB-FT): PO=10.6 PU=10 LR=11.7 LRA=18.4



11/18/2026 ACPERF, record # 33039

34LYK954





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

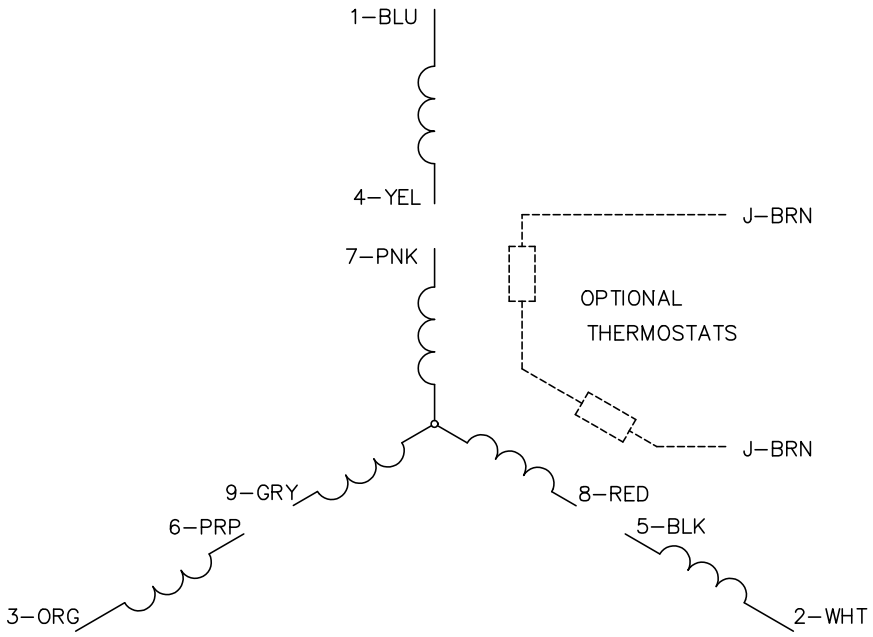
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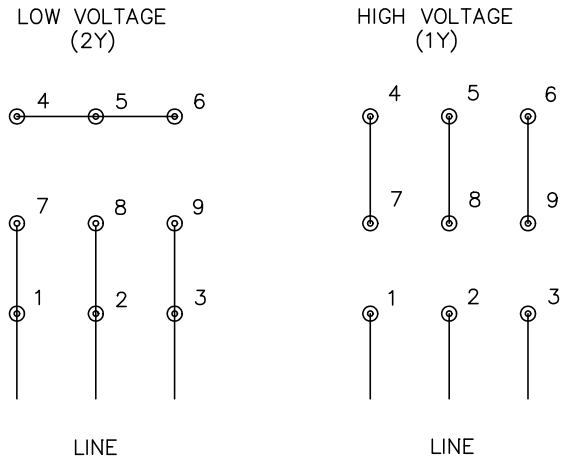
BALDOR - RELIANCE®

HORZ MODEL 34M NEMA 143-5TZ TEAO W/ TERM. PANEL

34LYK954

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.
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CD0005		FILE: AAA00005140	MDL: –
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