ABB BALDOR RELIANCE

Customer information packet

JM3120

1.5HP, 3450RPM, 3PH, 60HZ, 56J, 3424M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56J
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	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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.500 A @ 208.0 V
	4.400 A @ 230.0 V
	2.200 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	N
Type	AC
Mech. spec.	34J770
Base	
Status	PRD/A
Elec. spec.	34WGY691
Layout	34LYJ770
Eff. date	10-25-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	2.2 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
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	13.22 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.30
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	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

NP1256L									
CAT.NO.	JM3120								
SPEC.	34J770Y691								
HP	1.5								
VOLTS	230/460								
AMP	4.4/2.2								
RPM	3450								
FRAME	56J		**HZ**	60			**PH**	3	
SER.F.	1.30	**CODE**	L	**DES**	B	**CLASS**		B	
NEMA-NOM-EFF	74	**PF**	86						
RATING	40C AMB-CONT								
CC									
DE	6203		**ODE**	6203					
ENCL	OPEN	**SN**							
	SFA 5.4/2.7								

AC Induction Motor Performance Data
Record # 8002
Typical performance - not guaranteed values

Winding: 34WGY691-R001	**Type:** 3424M	**Enclosure:** OPEN

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		1.5	**Full Load Torque**	2.3 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		4.4/2.2	**Breakdown Torque**	9.6 LB-FT
R.P.M.		3450	**Pull-up Torque**	7.9 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	9.3 LB-FT
NEMA Design Code	B **KVA Code**	L	**Starting Current**	17.8 A
Service Factor (S.F.)		1.3	**No-load Current**	1 A
NEMA Nom. Eff.	74 **Power Factor**	86	**Line-line Res. @ 25ºC**	9.5 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	45°C
S.F. Amps		5.4/2.7	**Temp. Rise @ S.F. Load**	59°C
			Locked-rotor Power Factor	61
			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	56	70	79	86	90	88	91
Efficiency	53.7	67.6	73.4	74.2	74	74	74
Speed	3555	3523	3490	3456	3431	3338	3426
Line amperes	1.2	1.5	1.8	2.2	2.6	3.1	2.7

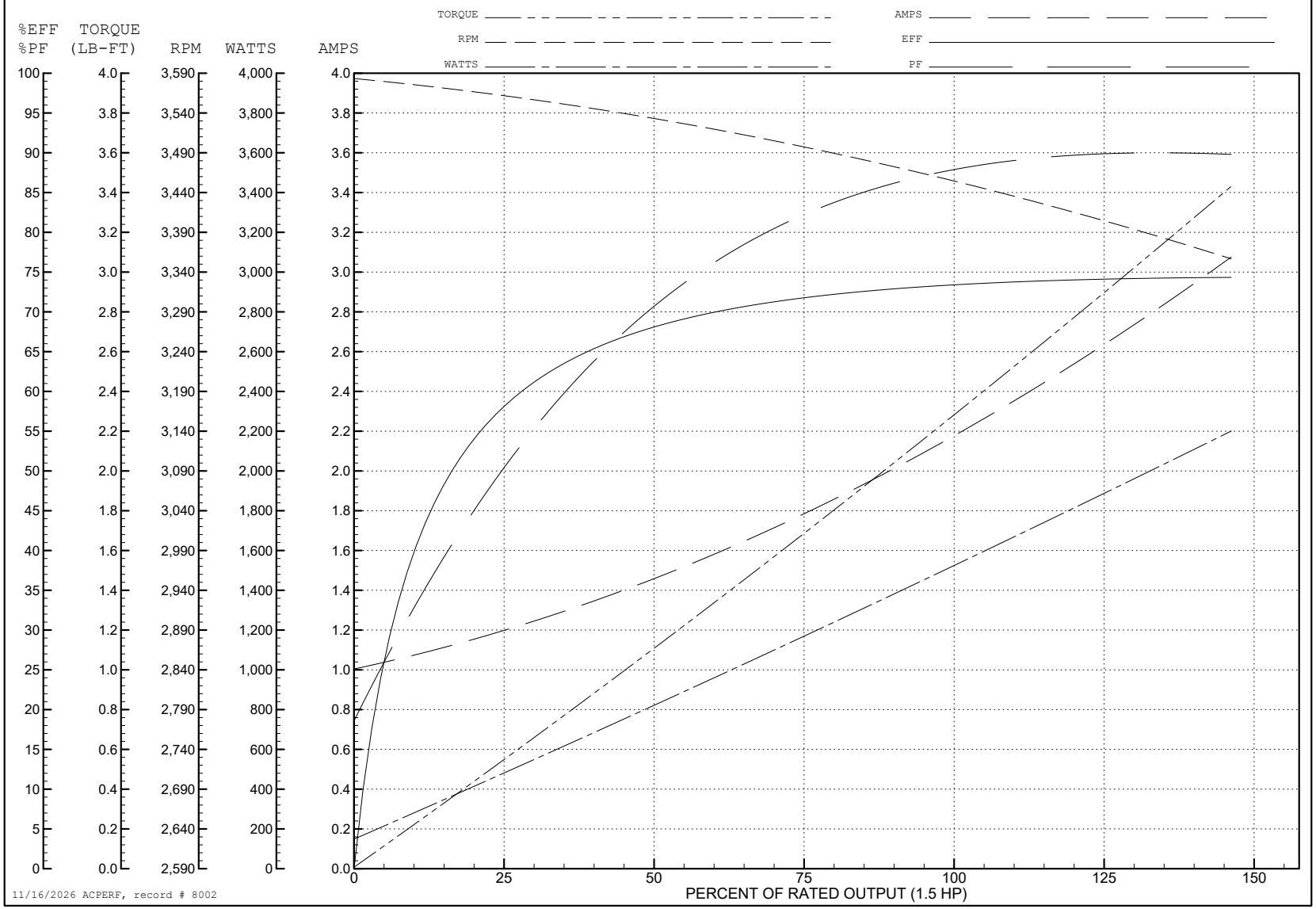
ABB Motors and Mechanical Inc.

WINDING # 34WGY691

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

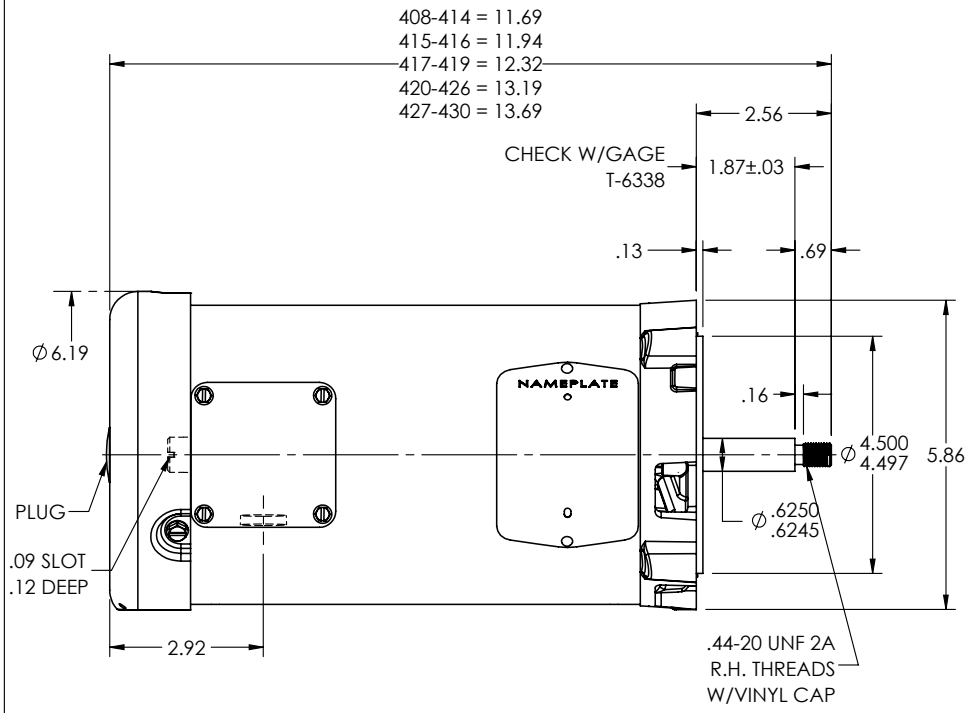
Typical performance - not guaranteed values.

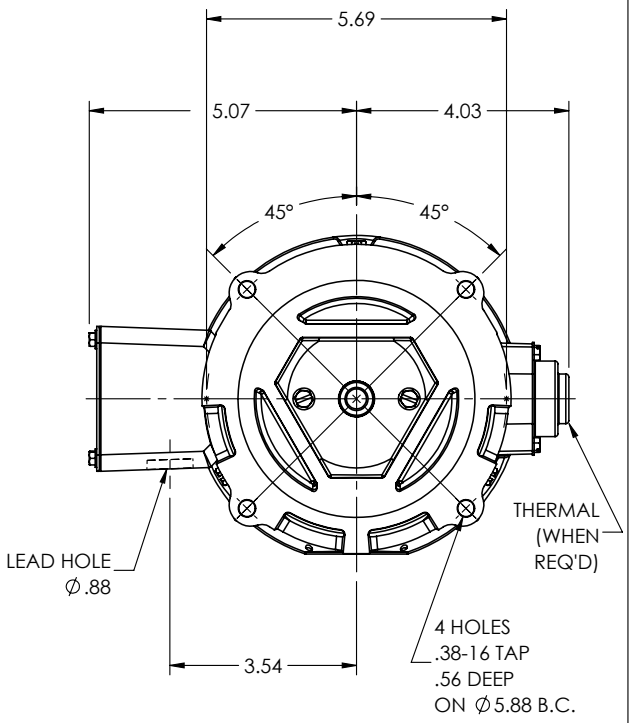
TORQUES(LB-FT): PO=9.6 PU=7.9 LR=9.3 LRA=17.8



11/16/2026 ACPERF, record # 8002

34LYJ770





34LYJ770

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

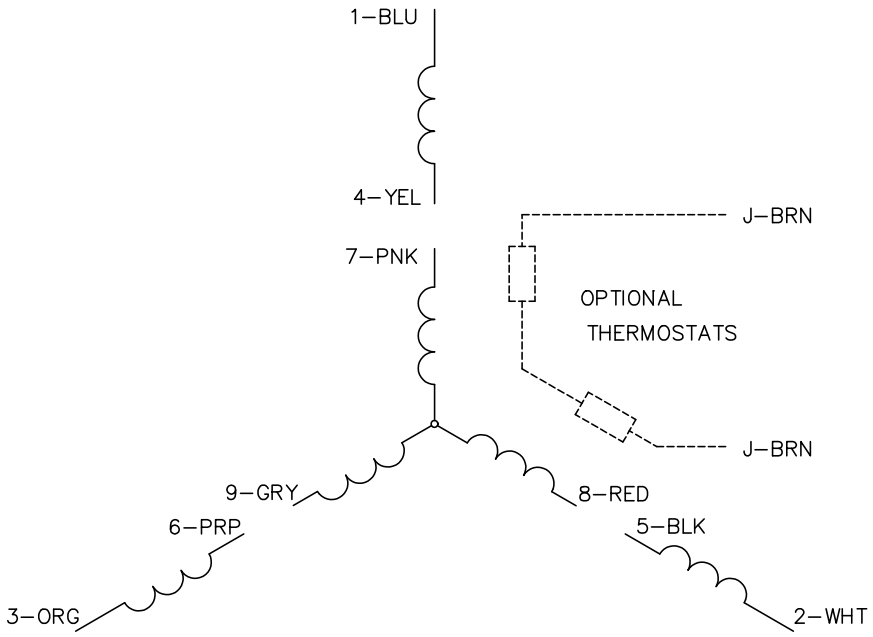
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REV: E	VERSION: 05	REVISED: 03:24:08 12/19/2022	TDR: 000001201165
MODEL NO. 34LYJ770			REF: -
BY: ENFRAJ0			

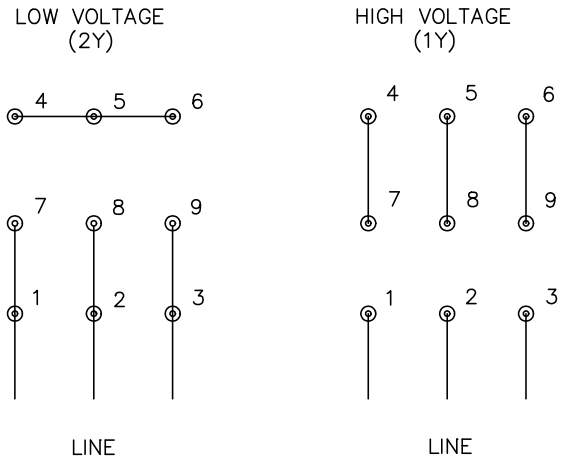
BALDOR - RELIANCE®

VERT 56J OPEN 34M W/DRIP CVR & LOW RES ER

34LYJ770

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