ABB BALDOR RELIANCE

Customer information packet

MVM3542D

.56HP, 1725RPM, 3PH, 60HZ, D80D, 3420M, TEFC, B
Class - None
Division - Not Applicable

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10/31/2026 1:17:00 AM

Specifications

Enclosure	TEFC
Frame	D80D
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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.200 A @ 208.0 V
	3.000 A @ 230.0 V
	1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Front Shaft Indicator	None

Part Detail

Revision	F
Type	AC
Mech. spec.	34H339
Base	
Status	PRD/A
Elec. spec.	34WGR707
Layout	34LYH339
Eff. date	03-09-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-29-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	M
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	IEC
Motor Type	3420M
Mounting Arrangement	B5
Number of Poles	4
Overall Length	10.73 IN
Power Factor	64
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	D-Flange
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.748 IN
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	None
Winding Thermal 2	None

Nameplate

NP1379L							
CAT.NO.	MVM3542D						
SPEC.	34H339R707G1						
IEC FRAME	D80D	**K.W.**	.56 TE				
VOLTS	208-230/460						
AMP	3.2-3/1.5						
RPM	1725	**I.P.**	54				
HZ	60	**PH**	3	**CL**	B		
SER.F.	1.25	**DES**	B	**CODE**	M		
NEMA-NOM-EFF	75.5	**PF**	64				
RATING	40C AMB-CONT						
CC							
DE	6205	**ODE**	6203				
SER. #	SFA 3.6-3.4/1.7						

Parts List

Part number	Description	Quantity
SA390549	SA 34H339R707G1	1.000 ea
RA381001	RA 34H339R707G1	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
34GS1029A01	GASKET, CONDUIT BOX	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP2503A01	FLG MTG EP IEC F165 ENCL 205 BRG MACH.	1.000 ea
HW4600H11	SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB	1.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2504E10	KEY, 6 MM X 1.000	1.000 ea
HA7000A11	KEY RETAINER 0.750 DIA SHAFTS	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A48	THRUBOLT 10-32 X 7.188	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1379L	ALUM IEC UL CC	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea

AC Induction Motor Performance Data
Record # 85439
Preliminary Data Sheet

Winding: 34WGR707-R001	**Type:** 3420M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			0.75
Volts			208-230/460
Full Load Amps			3.2-3.0/1.5
R.P.M.			1725
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1.25
NEMA Nom. Eff.	77	**Power Factor**	61
Rating - Duty			40C-AMB CONT
S.F. Amps			3.6-3.4/1.7

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	2.27 LB-FT
Start Configuration	direct on line
Breakdown Torque	9.9 LB-FT
Pull-up Torque	7.1 LB-FT
Locked-rotor Torque	9.2 LB-FT
Starting Current	9.8 A
No-load Current	1.08 A
Line-line Res. @ 25ºC	21 Ω
Temp. Rise @ Rated Load	69°C
Temp. Rise @ S.F. Load	83°C
Locked-rotor Power Factor	59.2
Rotor inertia	0.0476 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	44	56	66	73	79	73
Efficiency	54.7	68.4	73.5	75.2	75.8	74.9	76.5
Speed	1780	1763	1745	1726	1723	1700	1723
Line amperes	1.09	1.15	1.26	1.4	1.58	1.79	1.58

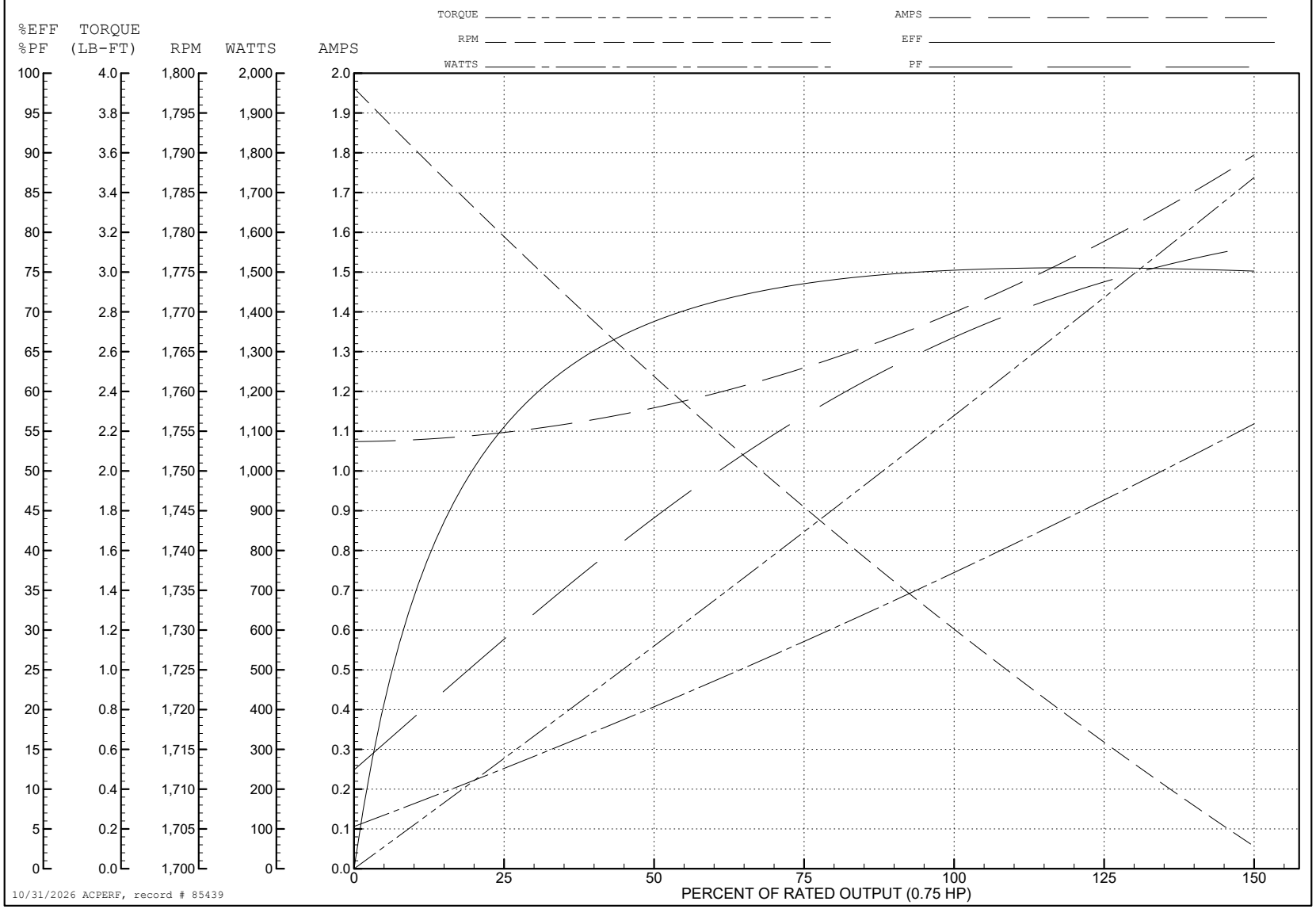
ABB Motors and Mechanical Inc.

WINDING # 34WGR707

0.75 HP 3 PH 60 HZ 1725 RPM 460 V 3420M

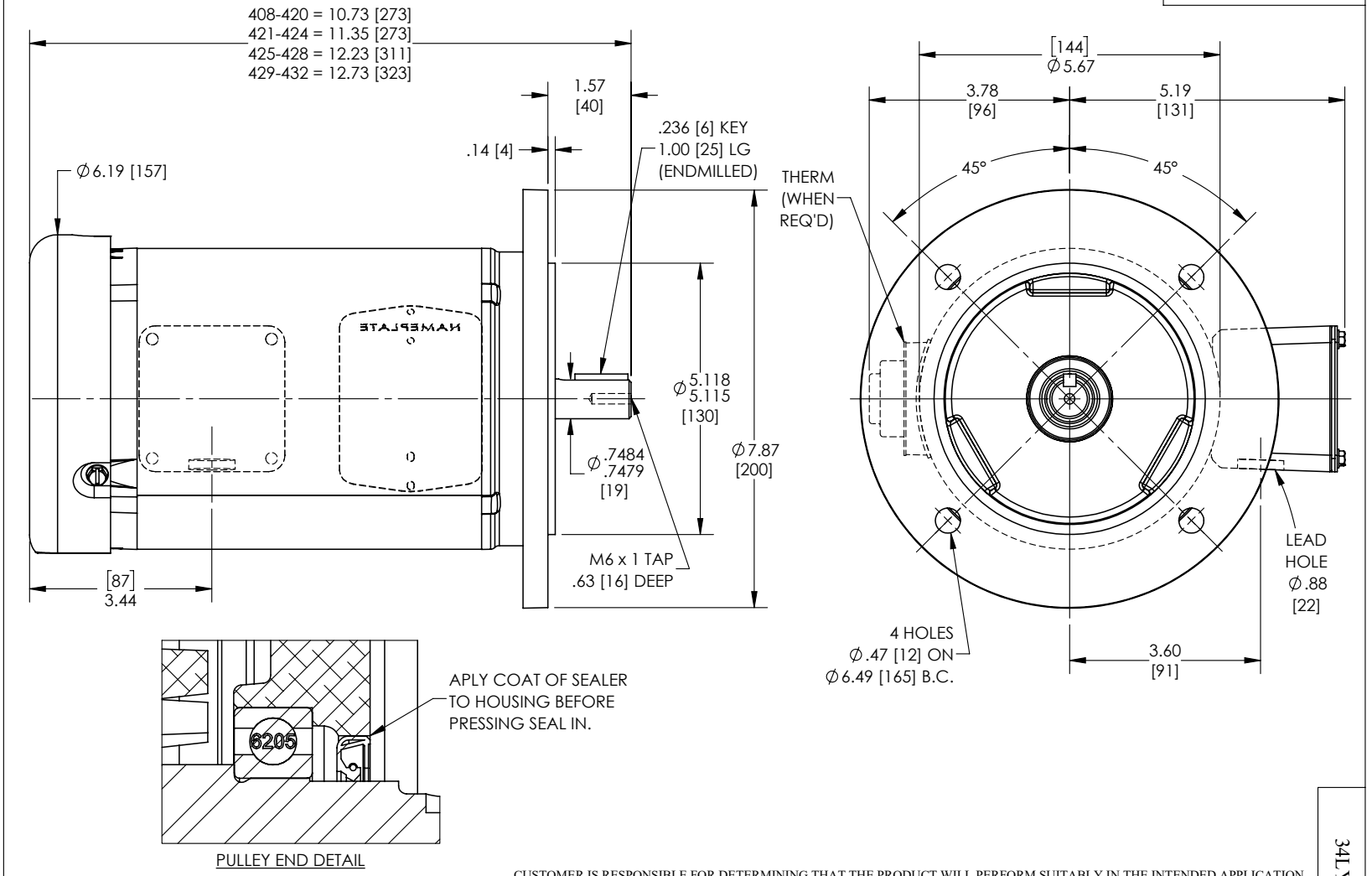
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9.9 PU=7.1 LR=9.2 LRA=9.8



10/31/2026 ACPERF, record # 85439

34LYH339



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

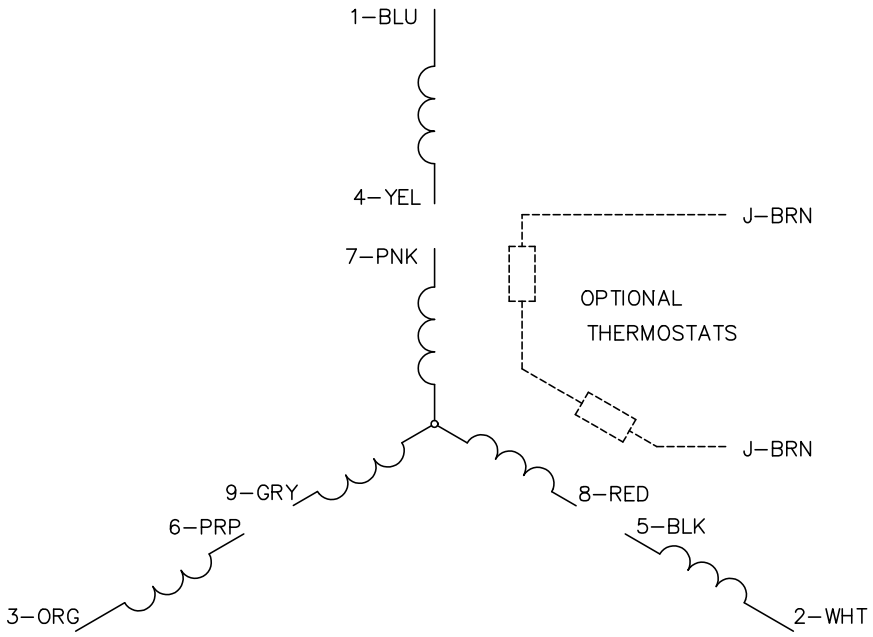
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REV: F	VERSION: 06	REVISED: 09:06:03 04/25/2023	TDR: 000001201165
34LYH339	MODEL NO. 34LYH339		REF: -
	BY: ENFRAJ0		

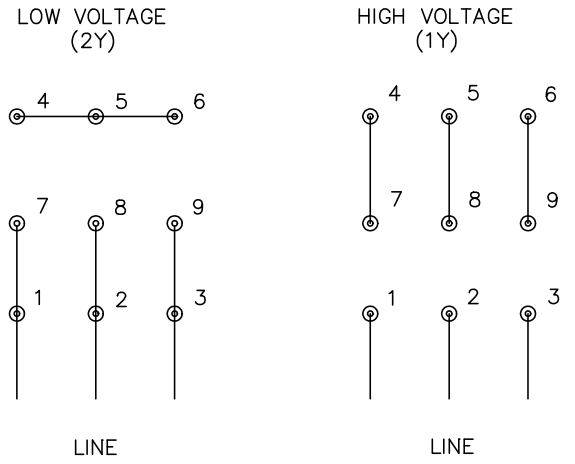
BALDOR - RELIANCE®

VERT 34M IEC D80D TEFC F2 MTG W/SEAL

34LYH339

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