ABB BALDOR RELIANCE

Customer information packet

MVM3542C

.56KW, 1725RPM, 3PH, 60HZ, D80C, 3420M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	D80C
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	208.0 V @ 60 HZ
	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	3.600 A @ 208.0 V
	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

Part Detail

Revision	AH
Type	AC
Mech. spec.	34G620
Base	
Status	PRD/A
Elec. spec.	34WG0883
Layout	34LYG620
Eff. date	10-25-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
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	IEC
Motor Type	3420M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	11.11 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.748 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

Nameplate

NP1379L							
CAT.NO.	MVM3542C						
SPEC.	34G620-883						
IEC FRAME	D80C	**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**	K		
NEMA-NOM-EFF	75.5	**PF**	60				
RATING	40C AMB-CONT						
CC							
DE	6205	**ODE**	6203				
SER. #							
	SFA 3.6-3.4/1.7						

Parts List

Part number	Description	Quantity
SA007740	SA 34G620-883	1.000 ea
RA004187	RA 34G620-883	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
34EP3303A12	ENDPLATE, PU MOD.34 IEC D80C ENCL W/205	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 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
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW4600H11	SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB	1.000 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
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1379L	ALUM IEC UL CC	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A02	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea

PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea

AC Induction Motor Performance Data
Record # 6605
Typical performance - not guaranteed values

Winding: 34WG0883-R001	**Type:** 3420M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	2.25 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			3.2-3/1.5	**Breakdown Torque**	10 LB-FT
R.P.M.			1725	**Pull-up Torque**	8.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.8 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	10 A
Service Factor (S.F.)			1.25	**No-load Current**	1.2 A
NEMA Nom. Eff.	75.5	**Power Factor**	60	**Line-line Res. @ 25ºC**	18.3 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	74°C
S.F. Amps			3.6-3.4/1.7	**Temp. Rise @ S.F. Load**	87°C
				Locked-rotor Power Factor	57.5
				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	27	42	54	61	70	75	71
Efficiency	56.1	70	74.8	76.2	76	75.3	76.1
Speed	1783	1766	1749	1731	1711	1693	1711
Line amperes	1.2	1.2	1.3	1.5	1.6	1.8	1.6

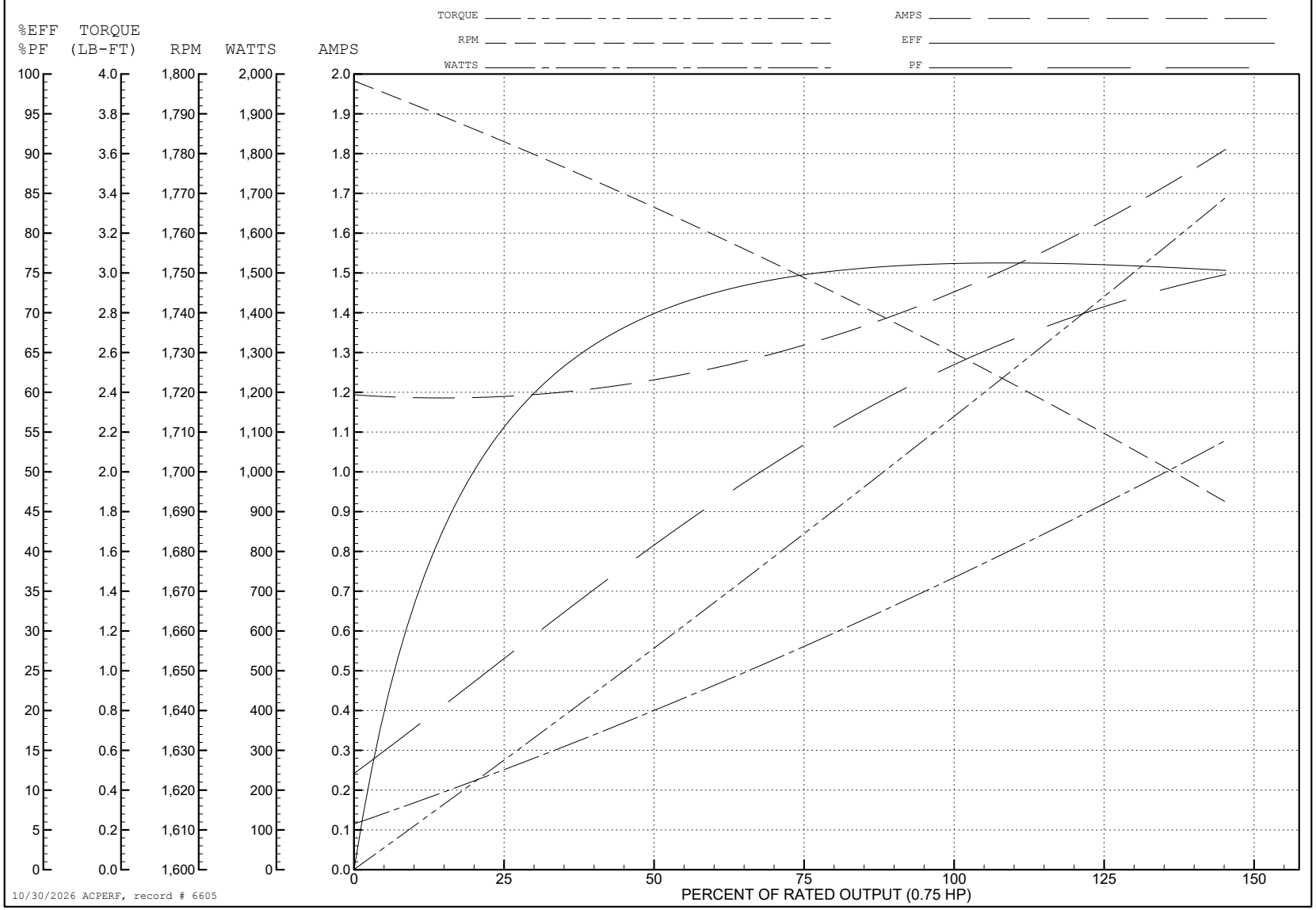
ABB Motors and Mechanical Inc.

WINDING # 34WG0883

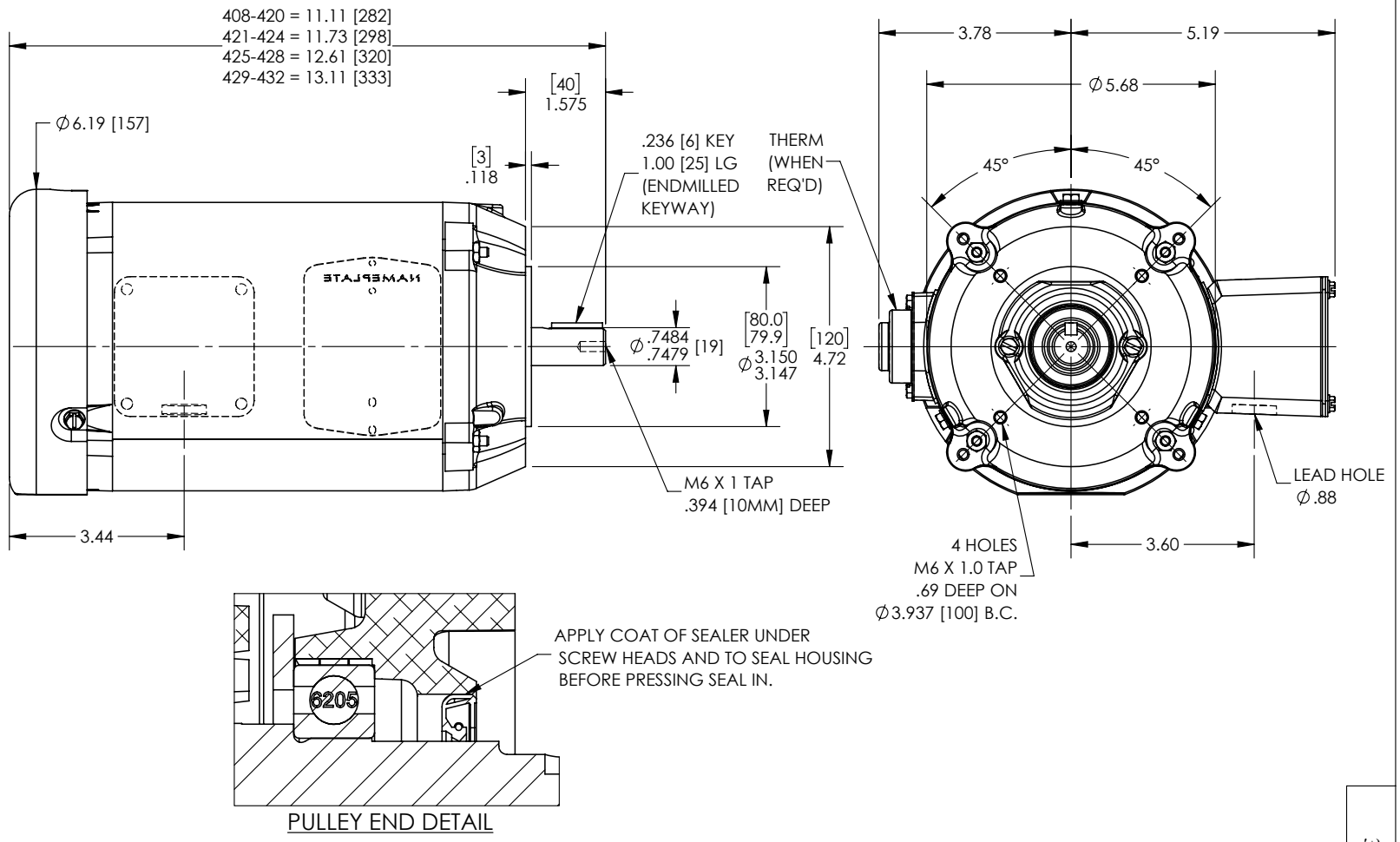
0.75 HP 3 PH 60 HZ 1725 RPM 460 V 3420M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=10 PU=8.5 LR=8.8 LRA=10



34LYG620



PULLEY END DETAIL

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

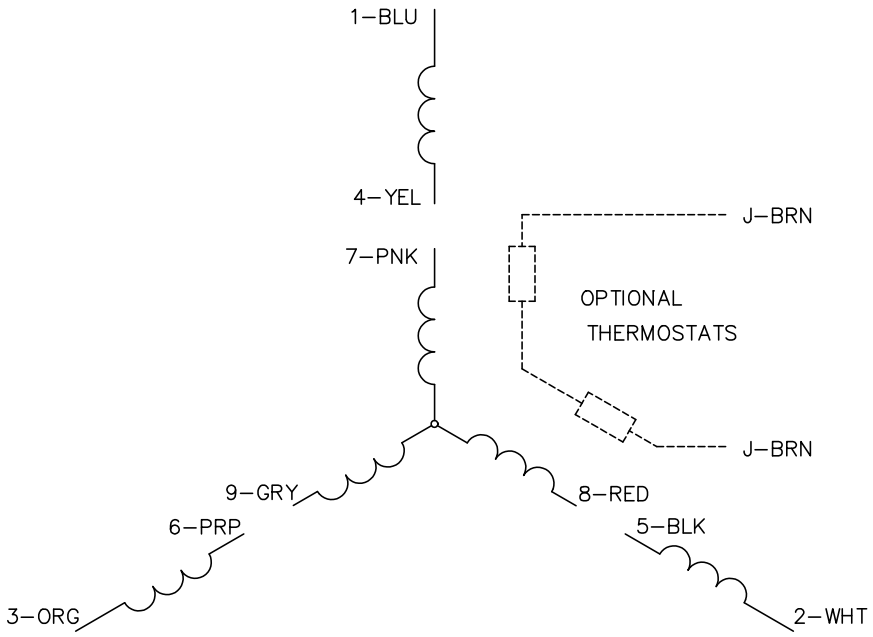
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REV: G	VERSION: 03	REVISED: 02:01:56 04/11/2023	TDR: 000001201165
34LYG620	MODEL NO. 34LYG620		REF: -
	BY: ENFRAJ0		

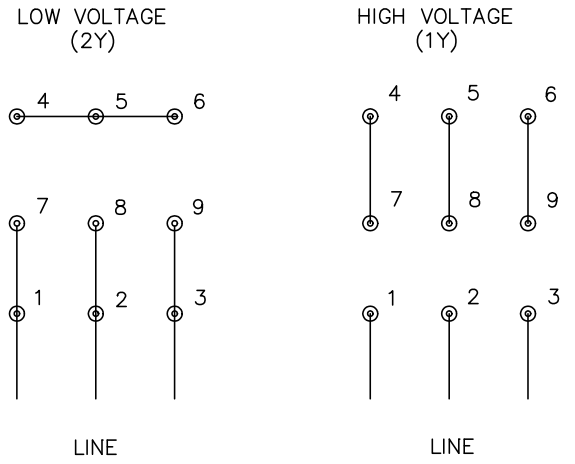
BALDOR - RELIANCE®

STD VERT 34M IEC D80C TEFC W/F-2 MTG & SEAL

34LYG620

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
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		MTL: –	3PH, DV, 9 LEADS