

ABB BALDOR RELIANCE III

Customer information packet

MVM3545C

.75KW, 3450RPM, 3PH, 60HZ, D80C, 3416M, TEFC

Class - None

Division - Not Applicable

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	1.000 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	4.100 A @ 208.0 V 3.600 A @ 230.0 V 1.800 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 Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	W
Type	AC
Mech. spec.	34G620
Base	
Status	INA/A
Elec. spec.	34WG0282
Layout	34LYG620
Eff. date	03-02-2016
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	1.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
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	3416M
Mounting Arrangement	F2
Number of Poles	2
Overall Length	11.11 IN
Power Factor	71
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	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

NP1379L									
CAT.NO.									
SPEC.	34G620-282								
IEC FRAME	D80C	K.W.		.75 TE					
VOLTS	230/460								
AMP	3.6/1.8								
RPM	3450			I.P.		54			
HZ	60		PH	3	CL	B			
SER.F.	1.00		DES	B	CODE		H		
NEMA-NOM-EFF	75.5		PF	71					
RATING	40C AMB-CONT								
CC									
DE	6205	ODE	6203						
SER. #									
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AC Induction Motor Performance Data

Record # 6568

Typical performance - not guaranteed values

Winding: 34WG0282-R001			Type: 3416M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		1	Full Load Torque		1.5 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		3.6/1.8	Breakdown Torque		6.5 LB-FT			
R.P.M.		3450	Pull-up Torque		5.2 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		5.5 LB-FT		
NEMA Design Code		B	KVA Code	H	Starting Current		11 A	
Service Factor (S.F.)		1.25	No-load Current		1.1 A			
NEMA Nom. Eff.		75.5	Power Factor		71	Line-line Res. @ 25°C		16.7 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		71°C	
S.F. Amps		4/2	Temp. Rise @ S.F. Load		85°C			

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	53	68	76	77	76	77
Efficiency	61.2	72.1	76.8	77.7	77.2	76.2	77.2
Speed	3558	3524	3476	3434	3390	3349	3390
Line amperes	1.17	1.25	1.45	1.65	1.9	2.15	1.9

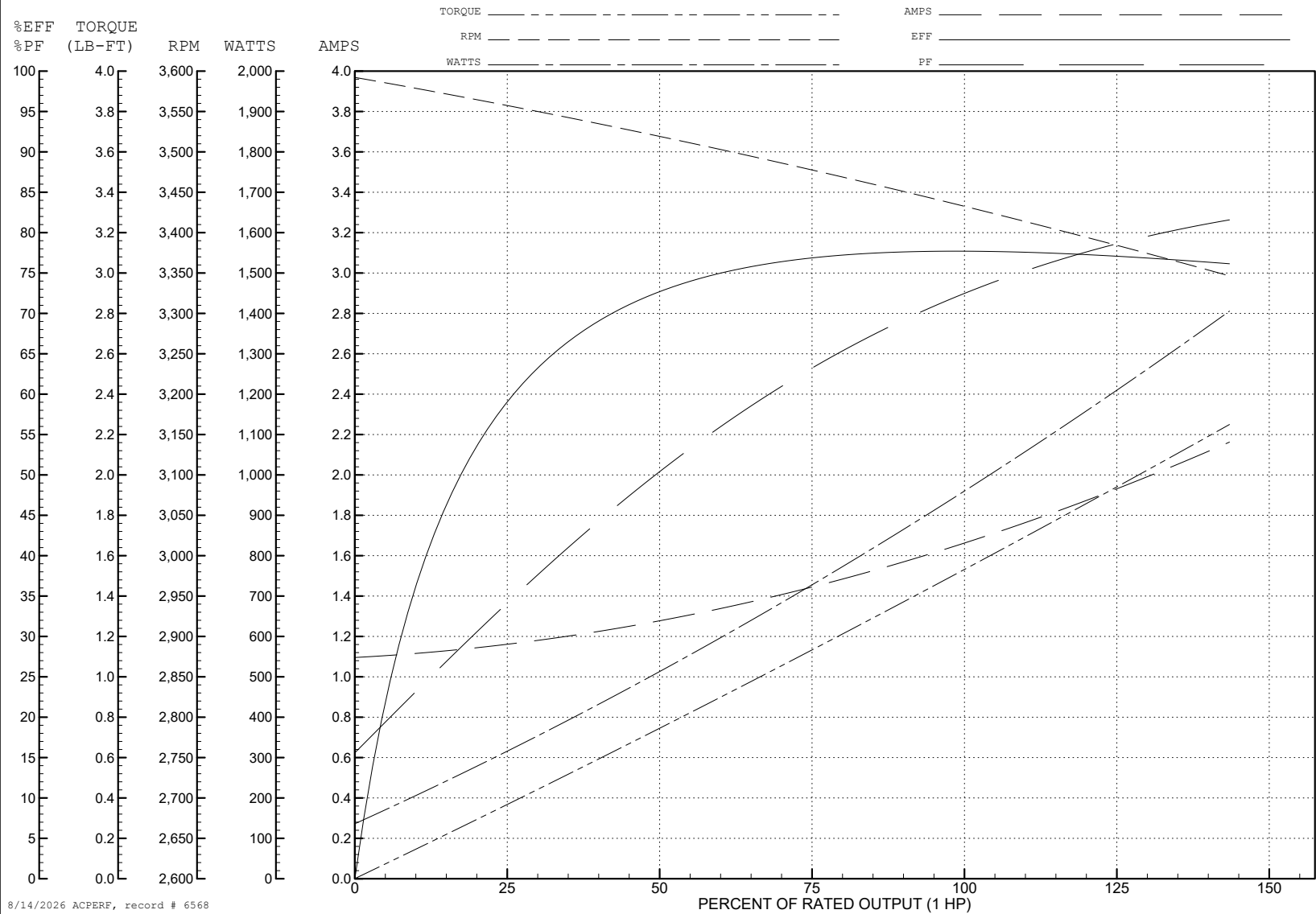
ABB Motors and Mechanical Inc.

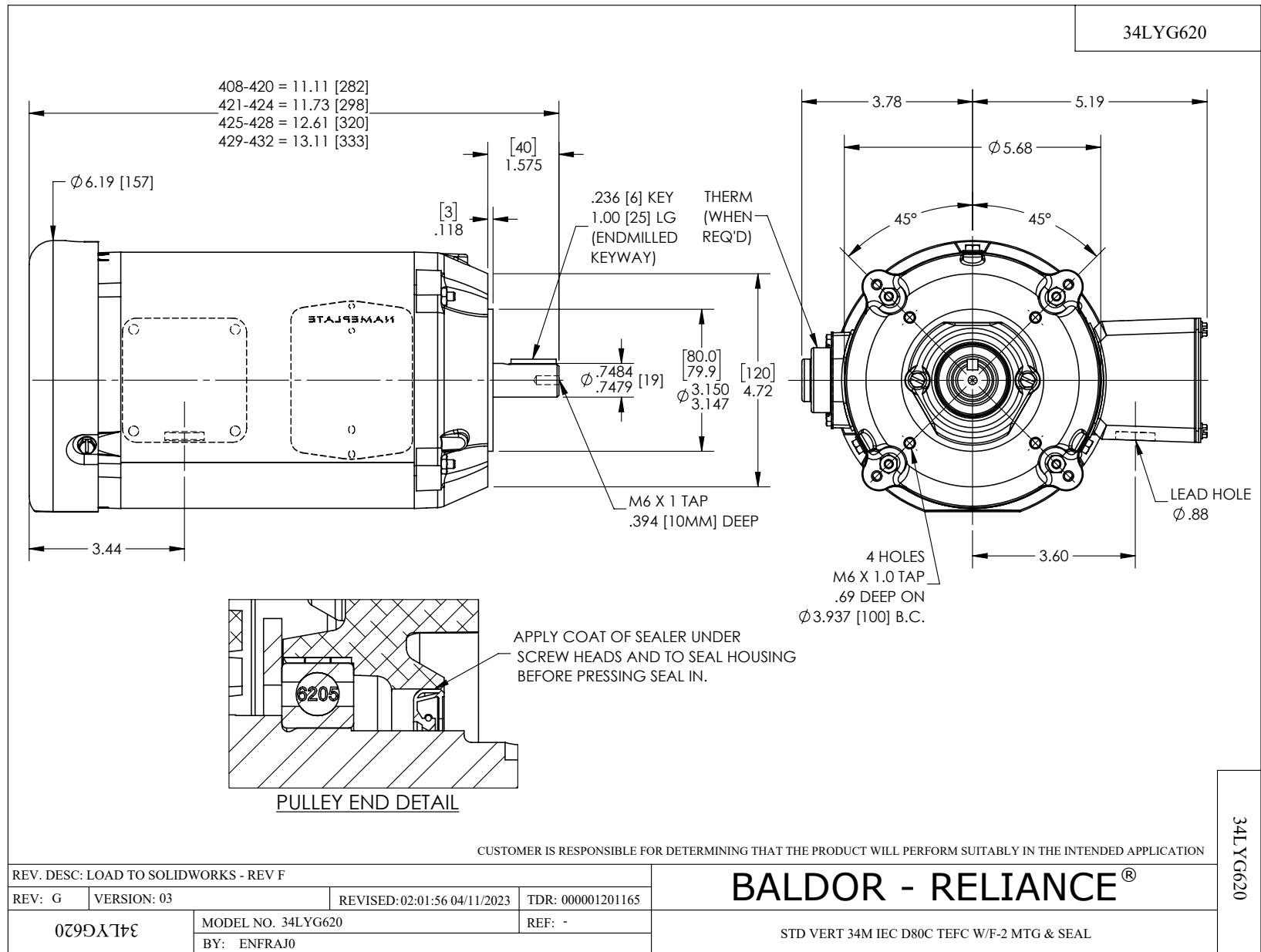
WINDING # 34WG0282

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3416M

TORQUES (LB-FT): PO=6.5 PU=5.2 LR=5.5 LRA=11





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005