ABB BALDOR RELIANCE

Customer information packet

VEDM3545

1HP, 3450RPM, 3PH, 60HZ, 56C, 3420M, TEFC, F1, N
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
10/30/2026 10:47:35 AM

Specifications

Enclosure	TEFC
Frame	56C
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	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	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
Constant Torque Speed Range	6
Current @ Voltage	3.700 A @ 208.0 V
	3.200 A @ 230.0 V
	1.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	L
Type	AC
Mech. spec.	34M809
Base	
Status	PRD/A
Elec. spec.	34WG3226
Layout	34LYM809
Eff. date	03-26-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	04-25-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3420M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.97 IN
Power Factor	82
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
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
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3560								
CAT NO	VEDM3545							
SPEC.	34M809-3226G1			**ENCL**	TEFC			
FRAME	56C	**HP**	1					
VOLTS	230/460SFA 3.6/1.8							
FLA	3.2/1.6			**I.P.**	56			
RPM	3450	**RPM MAX**	5400					
HZ	60	**PH**	3	**CLASS**	F			
SER.F.	1.25	**DES**	B	**CC**	010A			
NEMA-NOM-EFF	77							
RATING	40C AMB-CONT							
DE BRG	6203	**ODE BRG**	6203					
GREASE	POLYREX EM							
INV.TYPE		**C HP FR**	60	**C HP TO**	90			
CT HZ FROM	6	**CT HZ TO**	60	**VT HZ FROM**	3	**VT HZ TO**	60	
SER.NO								
	50C AT 1.0SF							

AC Induction Motor Performance Data
Record # 55785
Typical performance - not guaranteed values

Winding: 34WG3226-R063	**Type:** 3420M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	1.51 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.2/1.6	**Breakdown Torque**	7.966 LB-FT
R.P.M.			3450	**Pull-up Torque**	6.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.7 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	14.5 A
Service Factor (S.F.)			1.25	**No-load Current**	0.913 A
NEMA Nom. Eff.	77	**Power Factor**	82	**Line-line Res. @ 25ºC**	13.6 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	55°C
S.F. Amps			3.6/1.8	**Temp. Rise @ S.F. Load**	74°C

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	59	72	80	85	89	87
Efficiency	57.7	71.5	77.1	79.3	79.9	79.7	79.8
Speed	3560	3536	3506	3475	3445	3406	3422
Line amperes	0.967	1.09	1.27	1.47	1.7	1.99	1.87

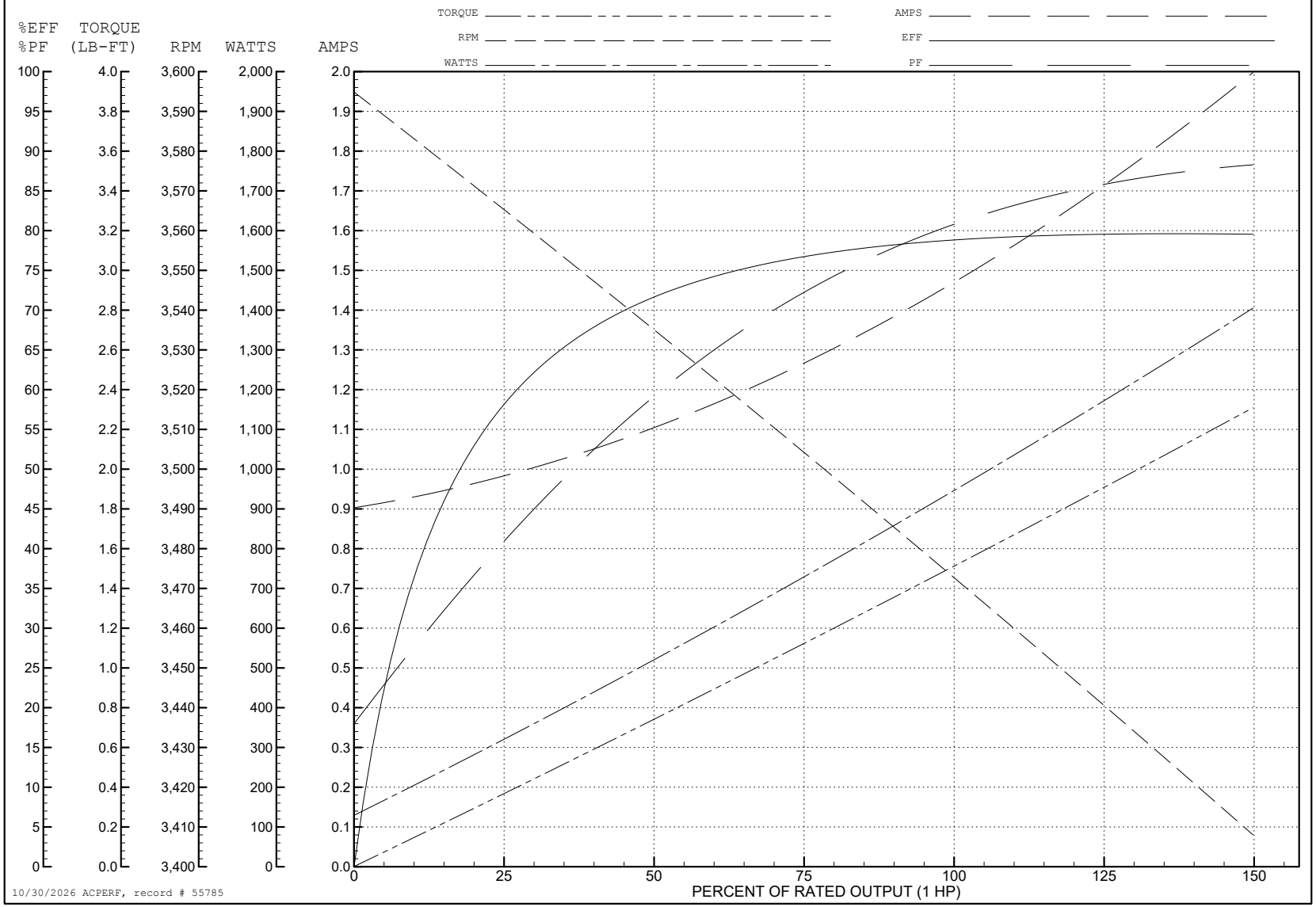
ABB Motors and Mechanical Inc.

WINDING # 34WG3226

1 HP 3 PH 60 HZ 3450 RPM 460 V 3420M

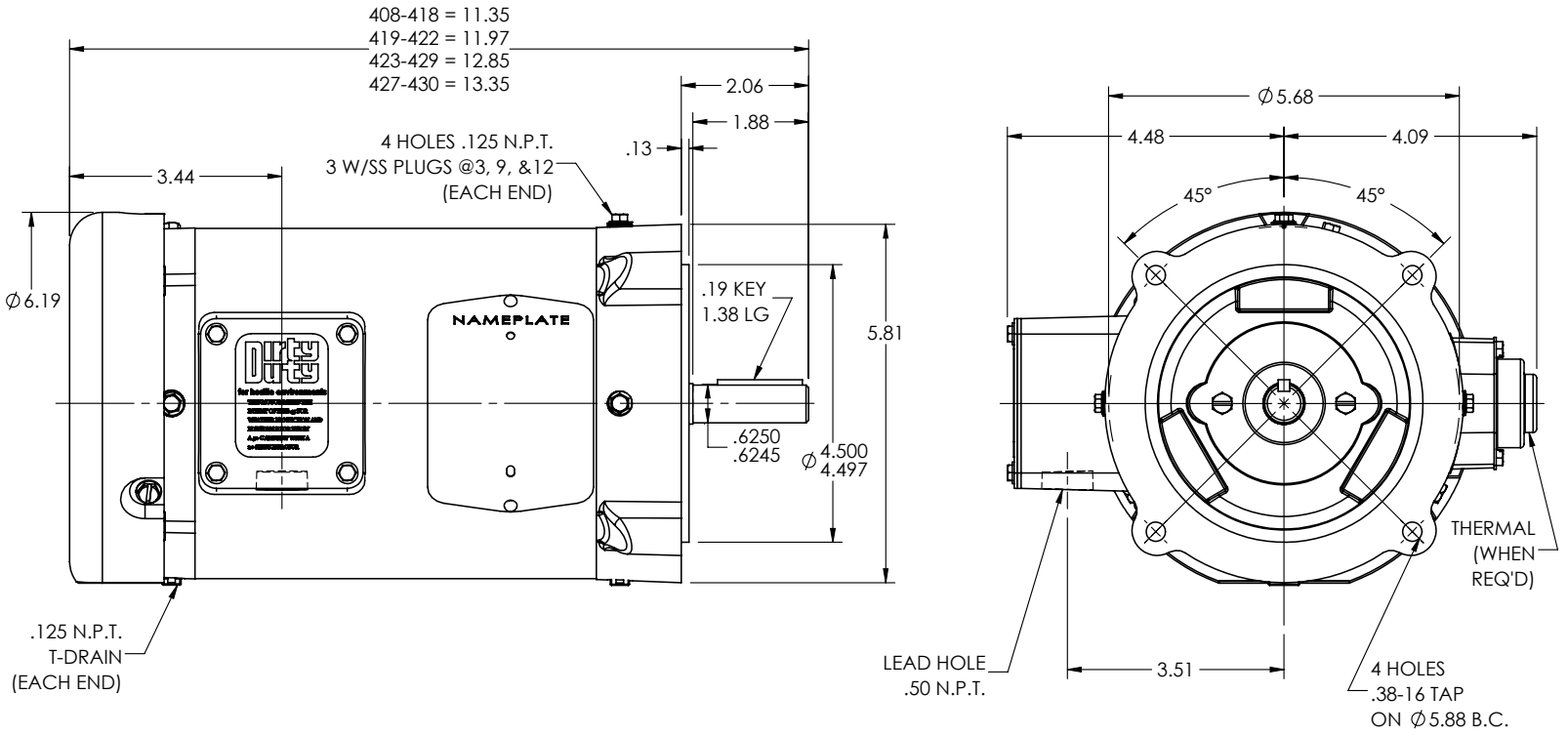
Typical performance - not guaranteed values.

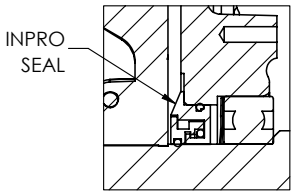
TORQUES(LB-FT): PO=7.966 PU=6.2 LR=8.7 LRA=14.5



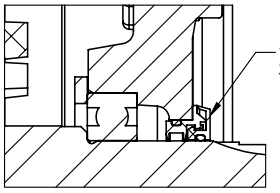
10/30/2026 ACPERF, record # 55785

34LYM809





FRONT END DETAIL



PULLEY END DETAIL

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

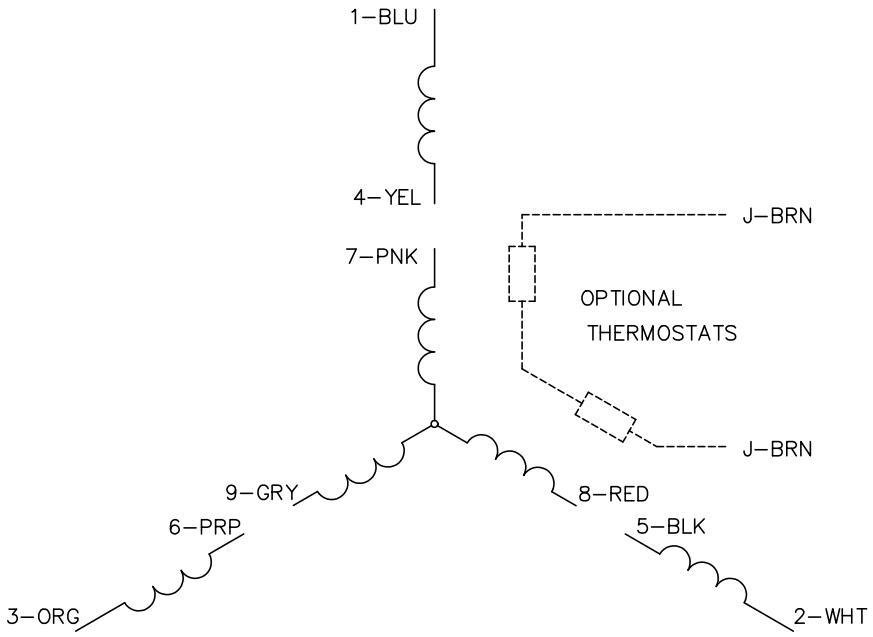
REV. DESC: LOAD TO SOLIDWORKS - REV "-"			
REV: A	VERSION: 01	REVISED: 04:50:31 04/21/2023	TDR: 000001201165
34LYM809	MODEL NO. 34LYM809		REF: -
	BY: ENFRAJ0		

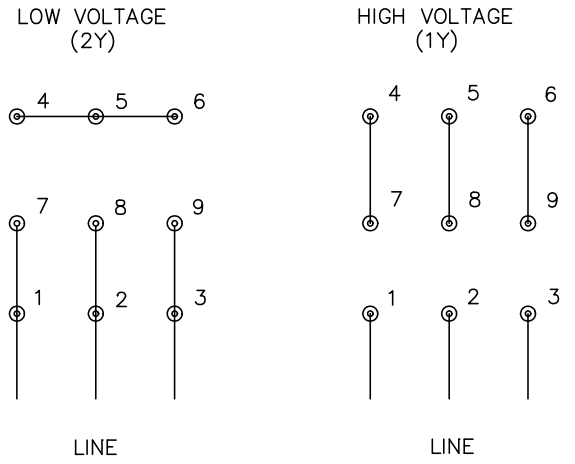
BALDOR - RELIANCE®

VER 56C TEFC 34M DDP (S/P032-002-002) LOW RES ENDRINGS

34LYM809

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