Customer information packet

VEDM3545

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

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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							

Parts List

Part number	Description	Quantity
SA320602	SA 34M809-3226G1	1.000 ea
RA308332	RA 34M809-3226G1	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB1000A01E	CONDUIT BOX, WASHDOWN, W/E-COATED	1.000 ea
34GS1017	GASKET, CONDUIT BOX MODEL 34 (BLACK NEOP	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
34EP1100A137LP2	FRONT EP TEFC 203 BRG W/ SEAL	1.000 ea
HW4601A23	INPRO SEAL, 203 BRG, VBX	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP1300A35E	ENDPLATE, MACH W/E-COAT	1.000 ea
HW4606A01	JM CLIPPER/SEAL (WDE-0667-1064-BH49)	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01LP2	IEC FH NO GREASER	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
34CB4500E	CONDUIT BOX LID, E-COAT	1.000 ea
34GS1007	GASKET, CONDUIT BOX LID MODEL 34 (BLACK	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
MJ5001A23	P.D. GEORGE B-276 AIR DRY VARNISH	0.001 ga
LB1000	LABEL, DIRTY DUTY	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
WD1000D21	TRM,T&B #B71M,RING,18-14,.25,NON-INSL	9.000 ea

85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MG2000A17	RUST INHIBITOR PART # SRPO #20	0.001 ga
MG1025L01	WILKOFAST FD, 786.04, BLACK	0.014 ga
MG1500Y02	WILKOPON PRIMER YELLOW	0.010 ga
HA3100S13	THRUBOLT 10X32 X 8.00 302 OR 303 SS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3560	SS DIRTY DUTY PLUS INV UL CSA-C US EEV	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	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 # 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

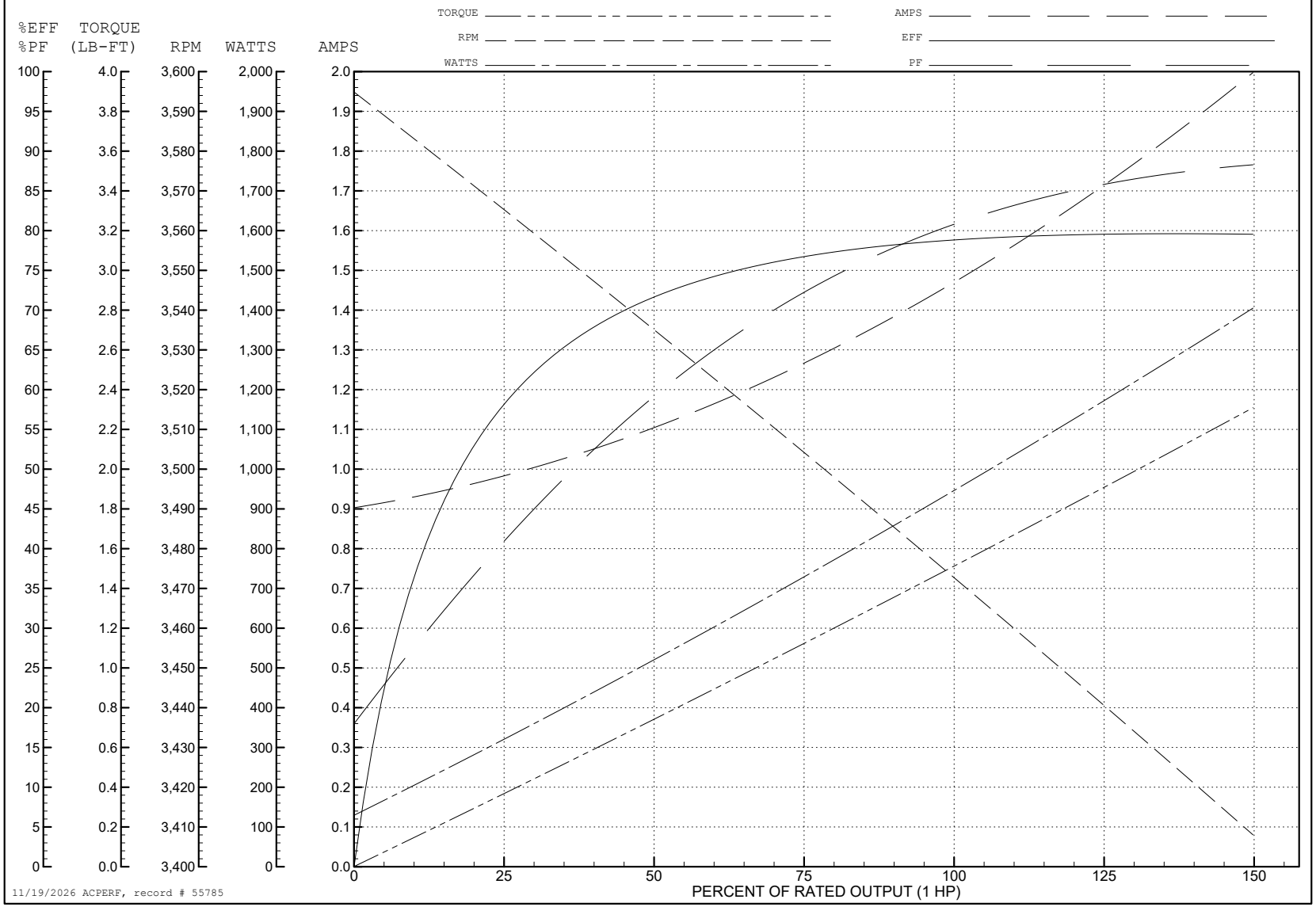
ABB Motors and Mechanical Inc.

WINDING # 34WG3226

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

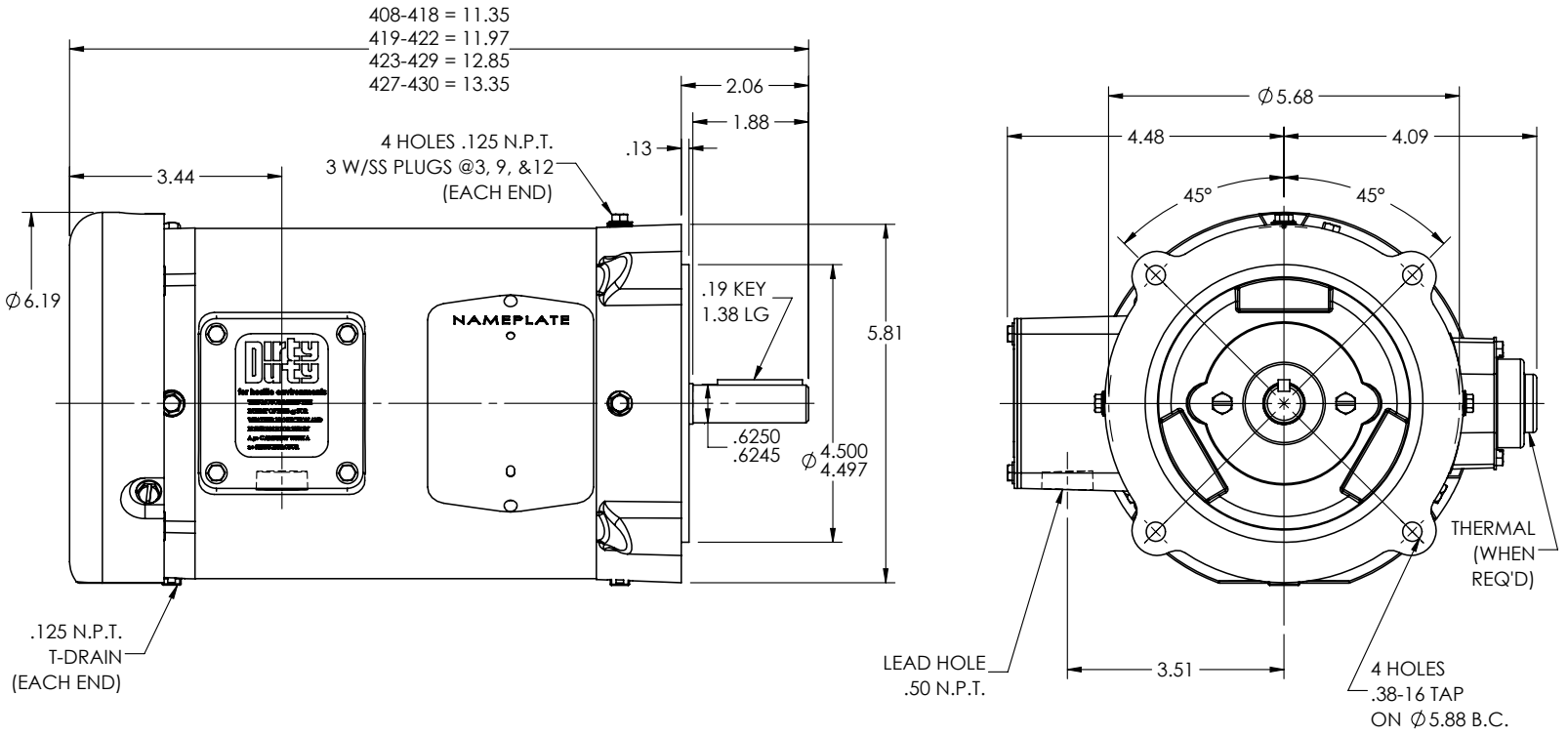
Typical performance - not guaranteed values.

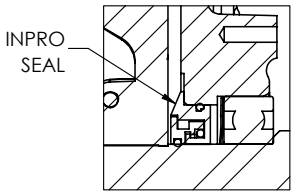
TORQUES(LB-FT): PO=7.966 PU=6.2 LR=8.7 LRA=14.5



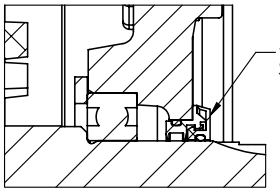
11/19/2026 ACPERF, record # 55785

34LYM809





FRONT END DETAIL



PULLEY END DETAIL

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

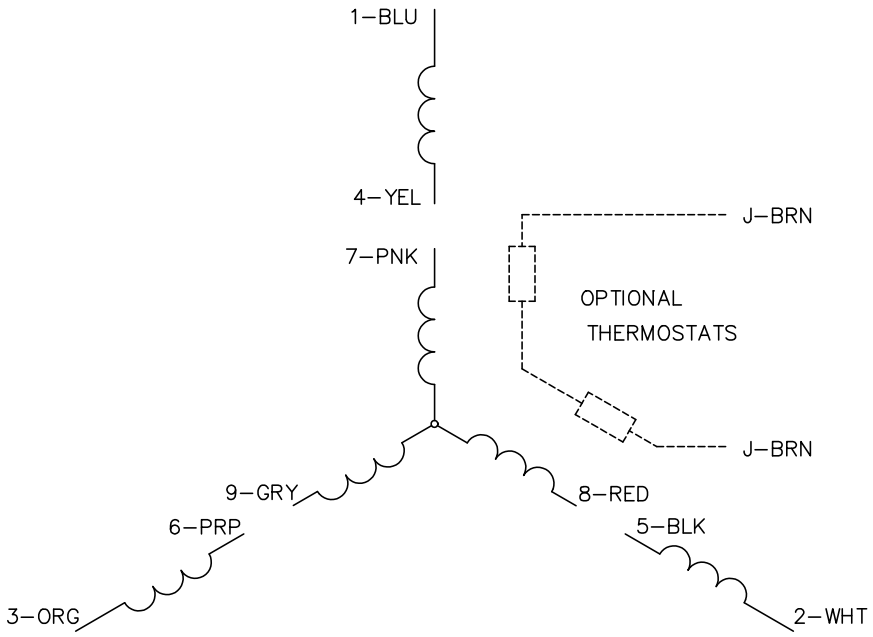
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REV: A	VERSION: 01	REVISED: 04:50:31 04/21/2023	TDR: 000001201165
34LYM809	MODEL NO. 34LYM809		REF: -
	BY: ENFRAJ0		

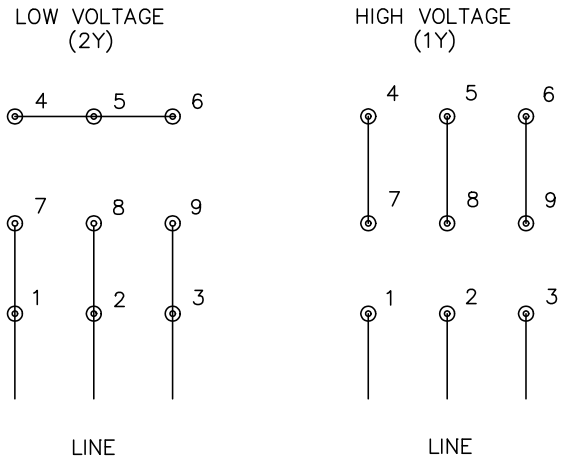
BALDOR - RELIANCE®

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