

BALDOR • RELIANCE

Customer information packet

DM3538

.5HP, 1725RPM, 3PH, 60HZ, 56, 3420M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	1.600 A @ 208.0 V 1.800 A @ 230.0 V .900 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
Front Face Code	Standard
Front Shaft Indicator	None

Part detail

Revision	Q
Type	AC
Mech. spec.	34M812
Base	
Status	PRD/A
Elec. spec.	34WG0097
Layout	34LYM812
Eff. date	05-21-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	04-25-2016

Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 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	4
Overall Length	11.35 IN
Power Factor	69
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
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	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

NP3659				
CAT.NO.	DM3538			
SPEC.	34M812-0097G1	ENCL	TEFC	
FRAME	56	H.P.	.5	
VOLTS	230/460			
AMPS	1.8/.9	IP	56	
R.P.M.	1725			
HZ.	60	PH.	3	CLASS F
SER.F.	1.25	DES.	B	CC
NEMA NOM. EFF.	75.5			
RATING	40C AMB-CONT			
DE	6203	ODE	6203	
GREASE	POLYREX EM			
SN				
	50C AT 1.0 SF			
	SFA 2/1			

AC Induction Motor Performance Data

Record # 55809

Typical performance - not guaranteed values

Winding: 34WG0097-R039		Type: 3420M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	.5	Full Load Torque	1.5 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	1.8/.9	Breakdown Torque	6.8 LB-FT		
R.P.M.	1725	Pull-up Torque	4.6 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	5.8 LB-FT	
NEMA Design Code	B	KVA Code	M	Starting Current	7 A
Service Factor (S.F.)	1.25		No-load Current	0.54 A	
NEMA Nom. Eff.	75.5	Power Factor	69	Line-line Res. @ 25°C	27.5 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	45°C	
S.F. Amps	2/1		Temp. Rise @ S.F. Load	54°C	
			Locked-rotor Power Factor	56.3	
			Rotor inertia	0.0476 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	53	64	71	77	84	77
Efficiency	55	69	74.4	78	75.7	74.4	75.7
Speed	1787	1774	1760	1749	1728	1717	1728
Line amperes	0.6	0.65	0.74	0.84	1	1.1	1

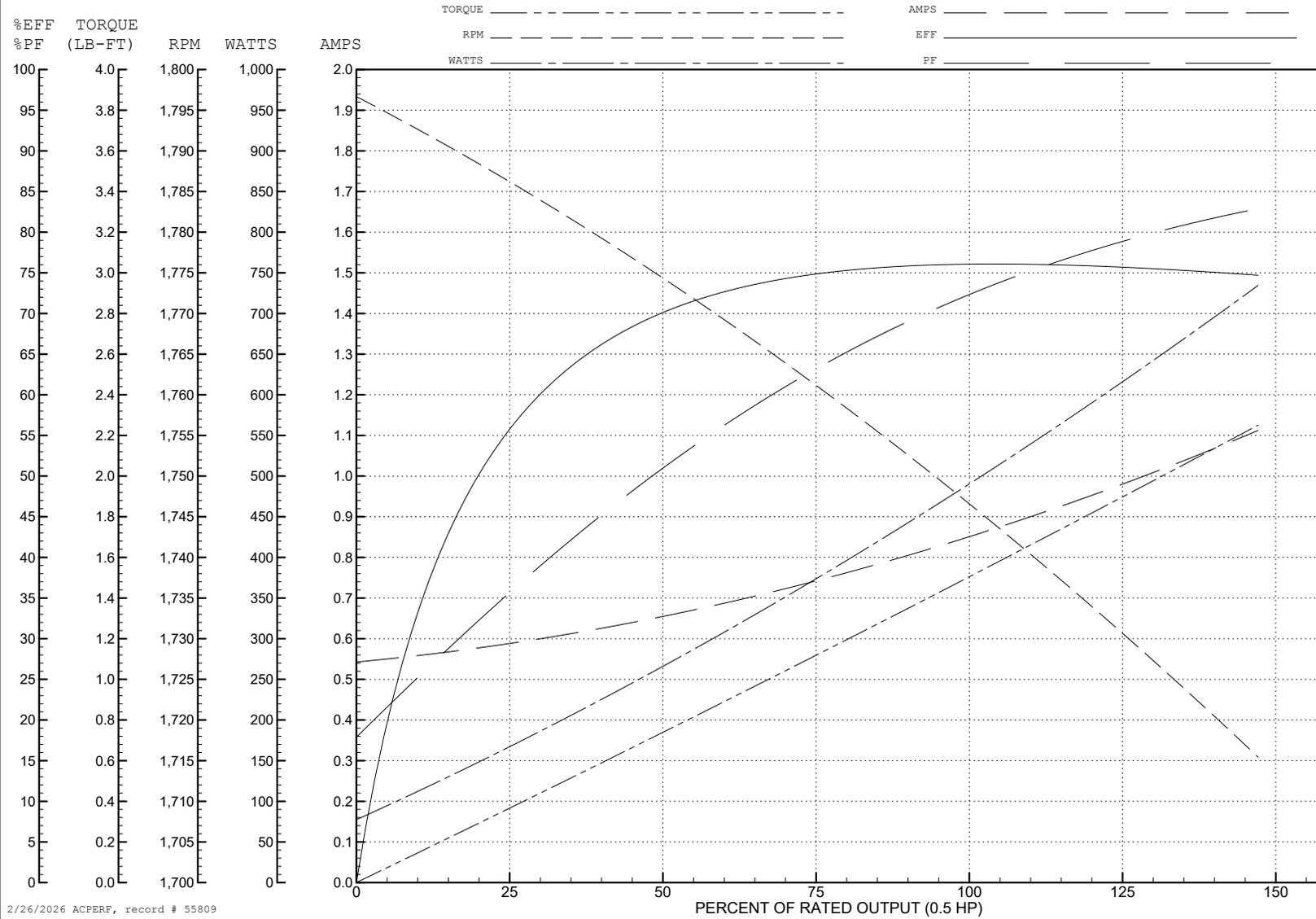
ABB Motors and Mechanical Inc.

WINDING # 34WG0097

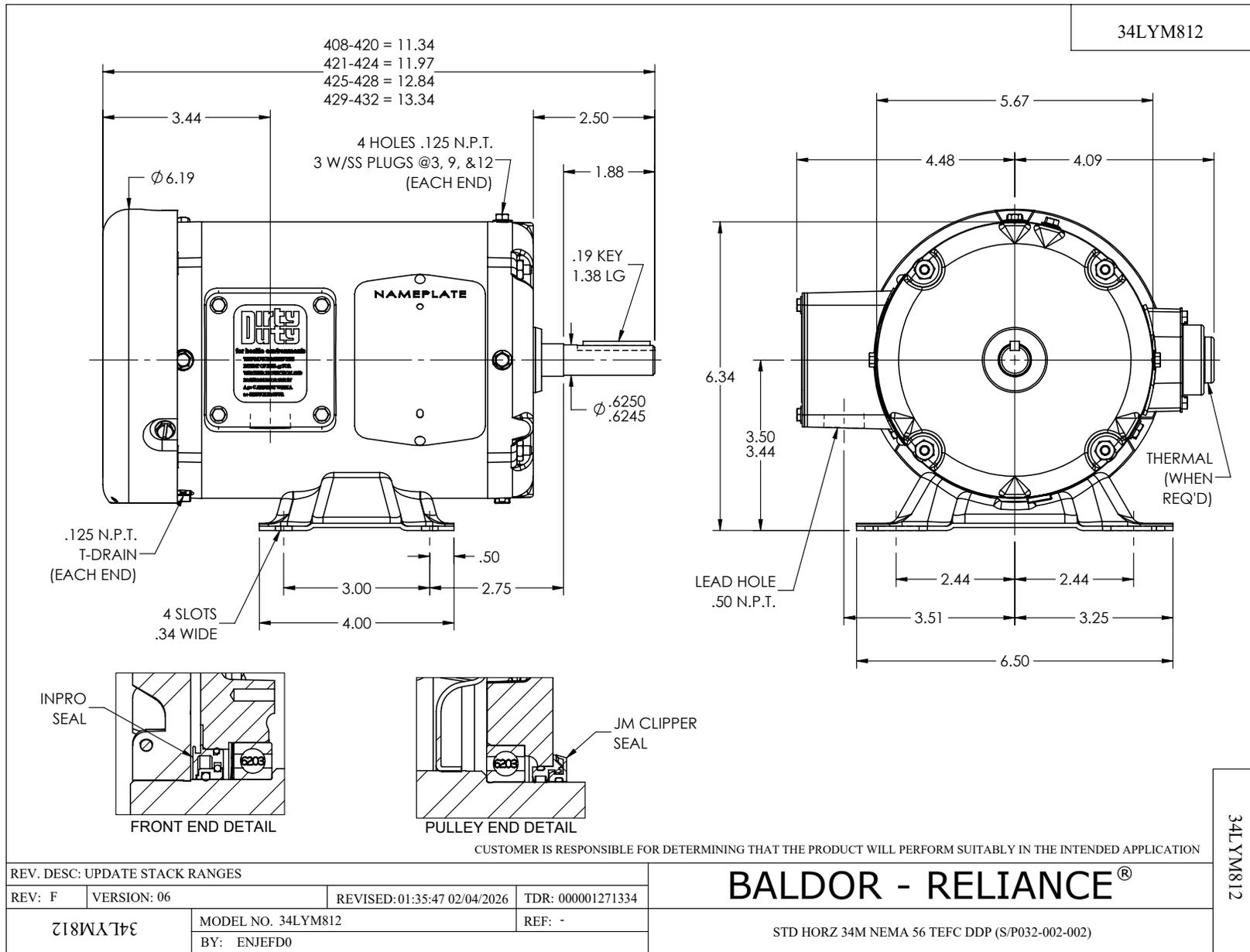
0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3420M

Typical performance - not guaranteed values.

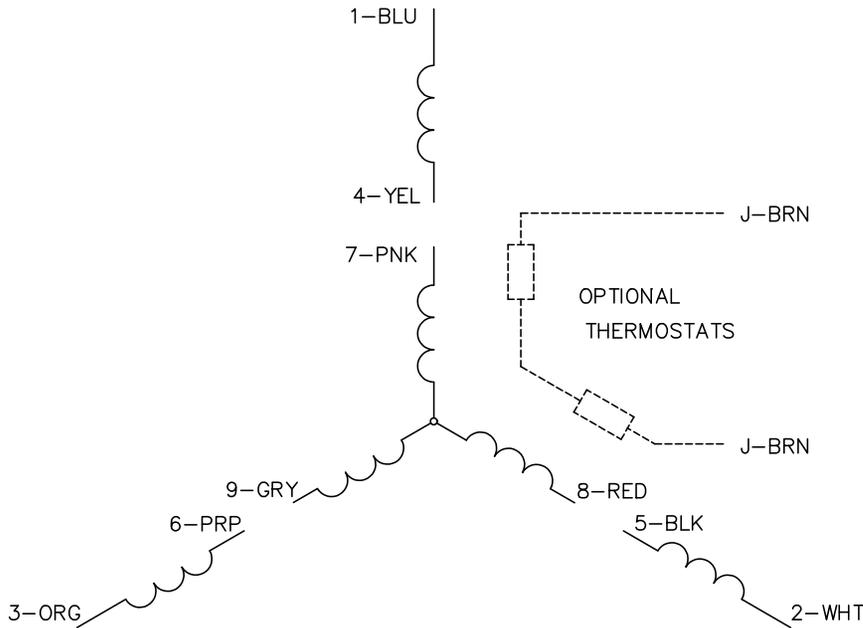
TORQUES (LB-FT): PO=6.8 PU=4.6 LR=5.8 LRA=7



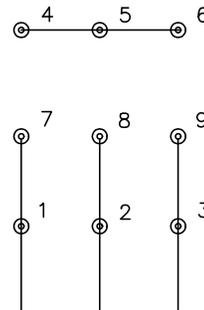
2/26/2026 ACPERF, record # 55809



CD0005

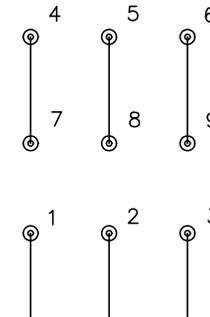


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS