

BALDOR • RELIANCE

Customer information packet

CDM3539

.5HP, 1140RPM, 3PH, 60HZ, 56C, 3428M, TEFC, F1

Class - None

Division - Not Applicable

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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CCSA US
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	1.300 A @ 460.0 V 2.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	K
Type	AC
Mech. spec.	34M811
Base	
Status	PRD/A
Elec. spec.	34WGW012
Layout	34LYM811
Eff. date	10-27-2022
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	04-20-2016

High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3428M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	12.85 IN
Power Factor	51
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	1140 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.	CDM3539
SPEC.	34M811W012G1 ENCL TEFC
FRAME	56C H.P. .5
VOLTS	230/460
AMPS	2.6/1.3 IP 56
R.P.M.	1140
HZ.	60 PH. 3 CLASS F
SER.F.	1.25 DES. B CC
NEMA NOM. EFF.	72
RATING	40C AMB-CONT
DE	6203 ODE 6203
GREASE	POLYREX EM
SN	
	50C AT 1.0SF
	SFA 2.8/1.4

AC Induction Motor Performance Data

Record # 55849

Typical performance - not guaranteed values

Winding: 34WGW012-R037		Type: 3428M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	.5	Full Load Torque	2.32 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	2.6/1.3	Breakdown Torque	11.4 LB-FT		
R.P.M.	1140	Pull-up Torque	9.67 LB-FT		
Hz	60	Locked-rotor Torque	10.4 LB-FT		
NEMA Design Code	B	Starting Current	7.42 A		
Service Factor (S.F.)	1.25	No-load Current	1.09 A		
NEMA Nom. Eff.	72	Line-line Res. @ 25°C	21.3 Ω		
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	54°C		
S.F. Amps	2.8/1.4	Temp. Rise @ S.F. Load	61°C		
		Locked-rotor Power Factor	55.5		
		Rotor inertia	0.0665 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	21	32	41	50	58	63	58
Efficiency	50.4	64.8	70.3	73.1	73.5	72.1	73.5
Speed	1188	1176	1162	1148	1131	1110	1131
Line amperes	1.11	1.15	1.21	1.29	1.4	1.53	1.4

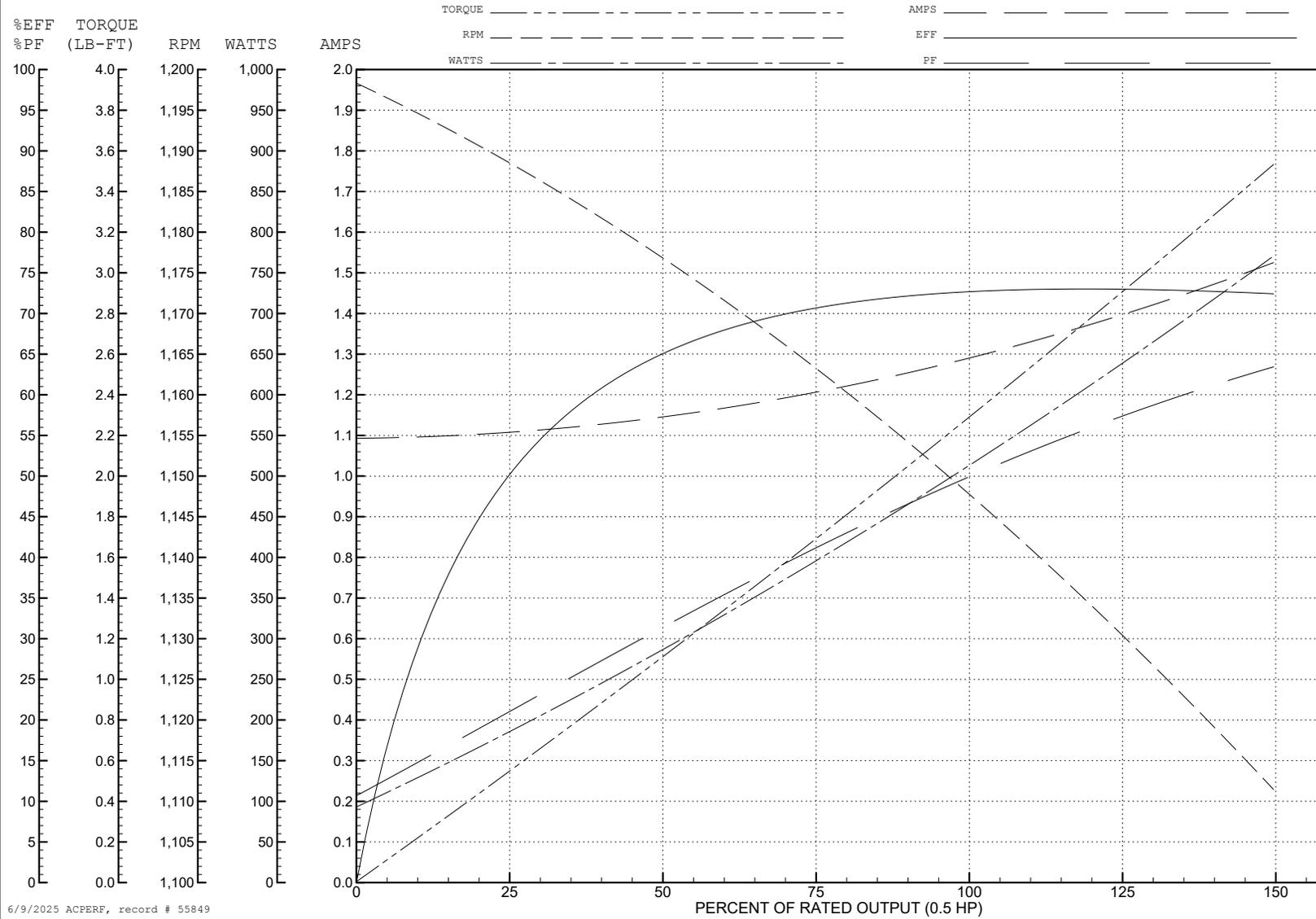
ABB Motors and Mechanical Inc.

WINDING # 34WGW012

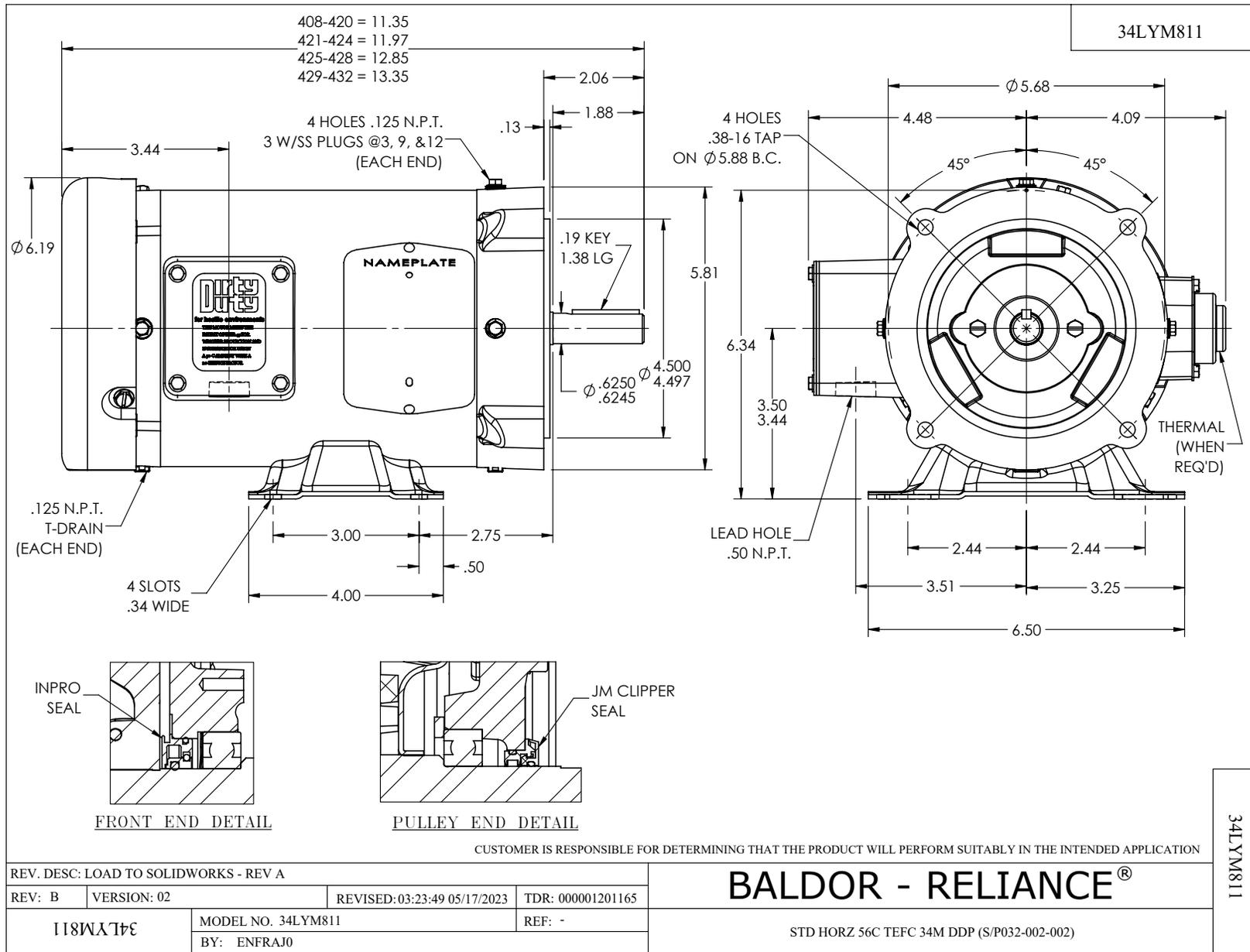
0.5 HP 3 PH 60 HZ 1140 RPM 460 V 3428M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=11.4 PU=9.67 LR=10.4 LRA=7.42



6/9/2025 ACPERF, record # 55849



CD0005

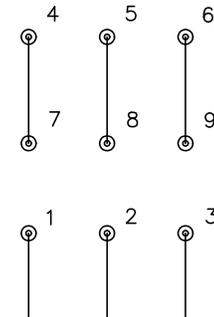


LOW VOLTAGE
(2Y)



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.

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

CD0005