

ABB BALDOR RELIANCE III

Customer information packet

VEL11306A

.75HP, 3450RPM, 1PH, 60HZ, 56C, 3428LC, OPEN, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV WEEE
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	6.300 A @ 115.0 V 4.700 A @ 208.0 V 3.300 A @ 230.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	76.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.3 a

Part Detail

Revision	E
Type	AC
Mech. spec.	34EL001
Base	
Status	PRD/A
Elec. spec.	34WGR220
Layout	34LYEL001
Eff. date	09-15-2026
CD Diagram	CD0320
Poles	02
Leads	6#18,1#16 #4TH
Proprietary	False
Created date	02-07-2023

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3428LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.04 IN
Power Factor	95
Product Family	General Purpose
Pulley End Bearing Type	Ball
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 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP4423B14M36L											
CAT #	VEL11306A				WGT	39		LBS			
SPEC	34EL001R220G1				ENCL	OPEN					
SER #					CC			IP	23		
HP	.75		NEMA NOM. EFF				76.2				
VOLTS	115/230										
AMPS	6.3/3.3					PF	95				
RATING	40C AMB-CONT										
RPM	3450										
FRAME	56C	HZ	60	CODE	J	CLASS		B			
SER.F.	1.25	SF AMP	8.4/4.2			PH	1	DES	N		
DE	6203		ODE	6203							
LUBRICATION	POLYREX EM										
					QR						
YR											

AC Induction Motor Performance Data

Record # 52884

Typical performance - not guaranteed values

Winding: 34WGR220-R001			Type: 3428LC		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		1.14 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		6.3/3.3	Breakdown Torque		3.88 LB-FT		
R.P.M.		3450	Pull-up Torque		2.07 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		3.92 LB-FT	
NEMA Design Code		N	KVA Code	J	Starting Current		24.8 A
Service Factor (S.F.)		1.25		No-load Current		0.961 A	
NEMA Nom. Eff.		76.2	Power Factor	95	Line-line Res. @ 25°C		2.4012 Ω A Ph 2.118 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		12°C	
S.F. Amps		8.4/4.2		Temp. Rise @ S.F. Load		16°C	

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	77	89	93	95	95	95	95
Efficiency	62.6	74.2	78.2	77.5	76.1	74.7	76.1
Speed	3567.6	3537.1	3504.2	3465	3419.8	3372.1	3420
Line amperes	1.23	1.84	2.51	3.32	4.21	5.14	4.21

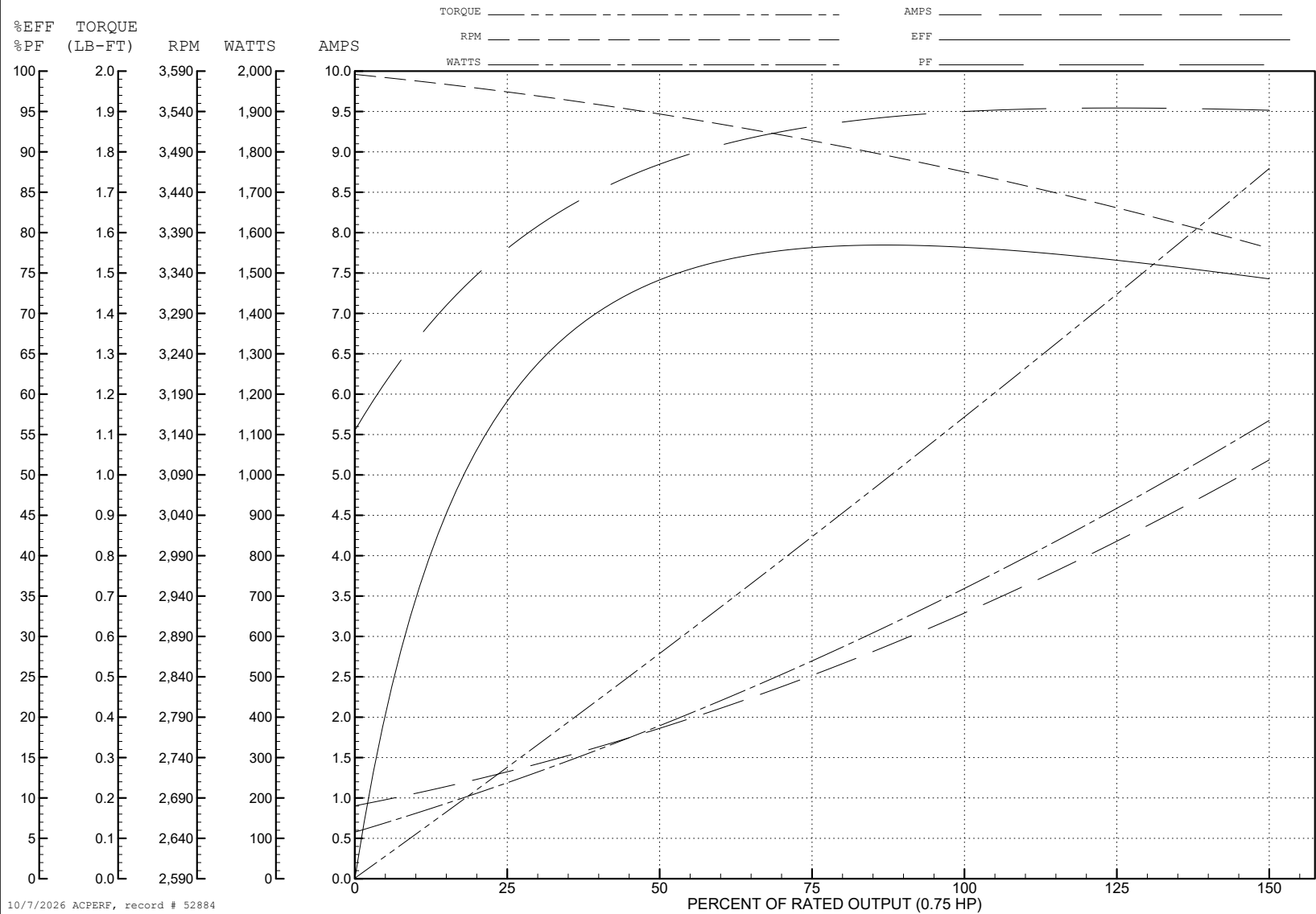
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WINDING # 34WGR220

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 3450 RPM 230 V 3428LC

TORQUES (LB-FT): PO=3.88 PU=2.07 LR=3.92 LRA=24.8



AC Induction Motor Performance Data

Record # 52885

Typical performance - not guaranteed values

Winding: 34WGR220-R001			Type: 3428LC		Enclosure: OPEN		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		1.13 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		6.3/3.3	Breakdown Torque		3.28 LB-FT		
R.P.M.		3450	Pull-up Torque		2.55 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		3.81 LB-FT	
NEMA Design Code		N	KVA Code		J		
Service Factor (S.F.)		1.25	Starting Current		49.8 A		
NEMA Nom. Eff.		76.2	Power Factor		95		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		27°C
S.F. Amps		8.4/4.2	Temp. Rise @ S.F. Load		36°C		
Line-line Res. @ 25°C		0.58846 Ω	A Ph		2.1681 Ω		B Ph

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	80	89	93	94	95	95	95
Efficiency	60.3	73.2	77.3	78.2	77.3	74.8	77.3
Speed	3570	3543.5	3508.4	3477.4	3436.9	3387.6	3437
Line amperes	2.54	3.7	5.12	6.53	8.27	10.3	8.27

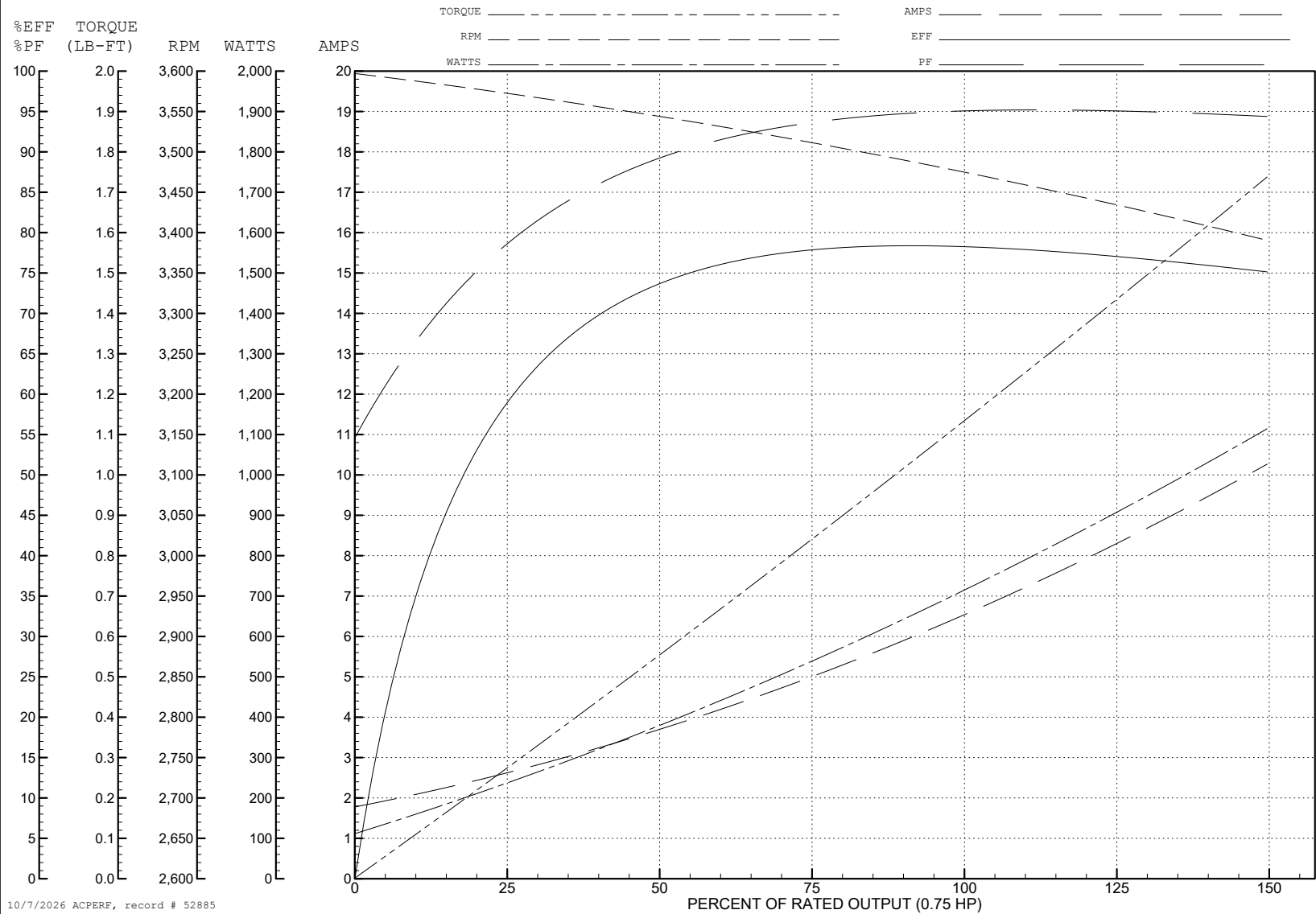
ABB Motors and Mechanical Inc.

WINDING # 34WGR220

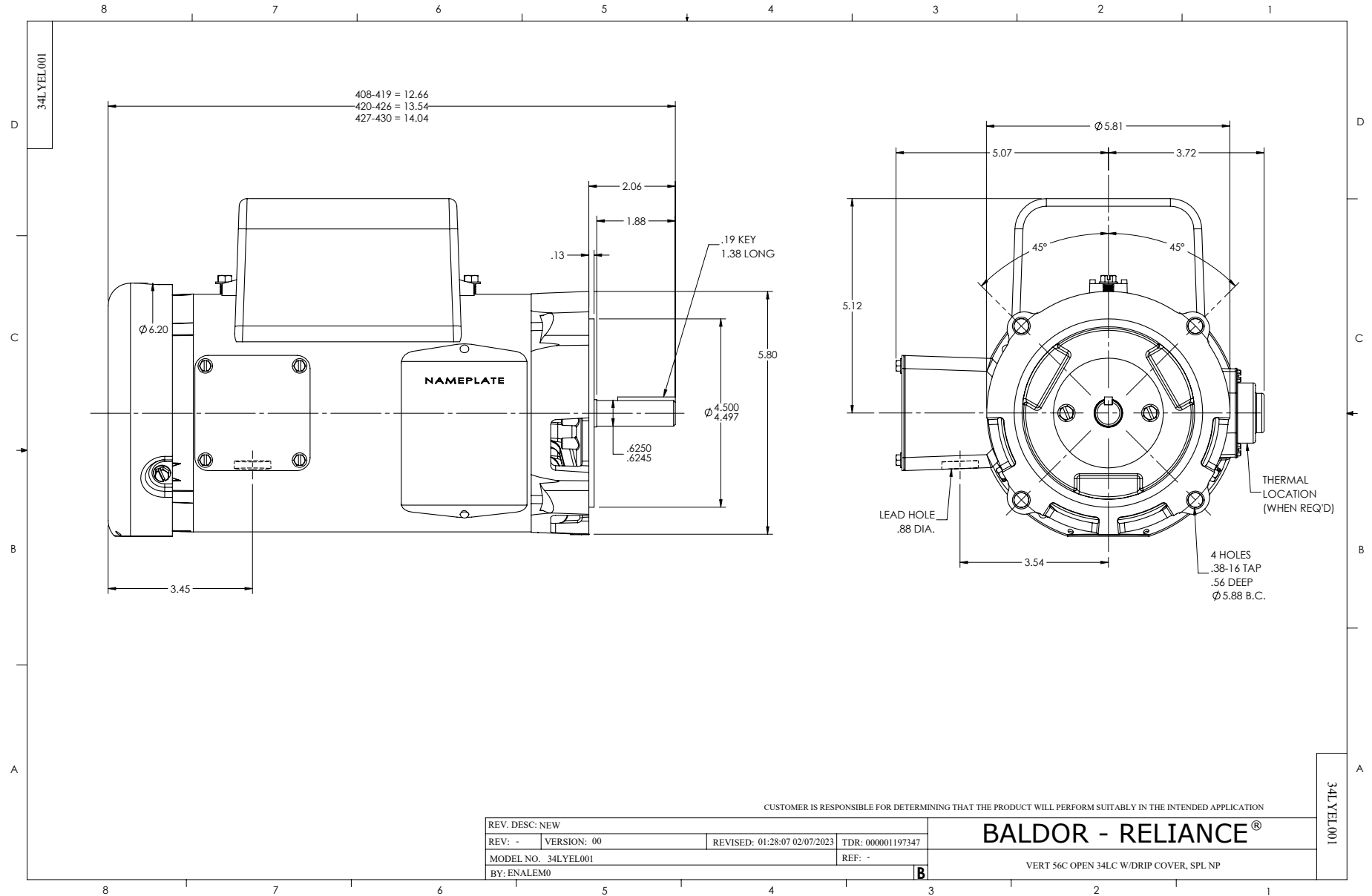
Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 3450 RPM 115 V 3428LC

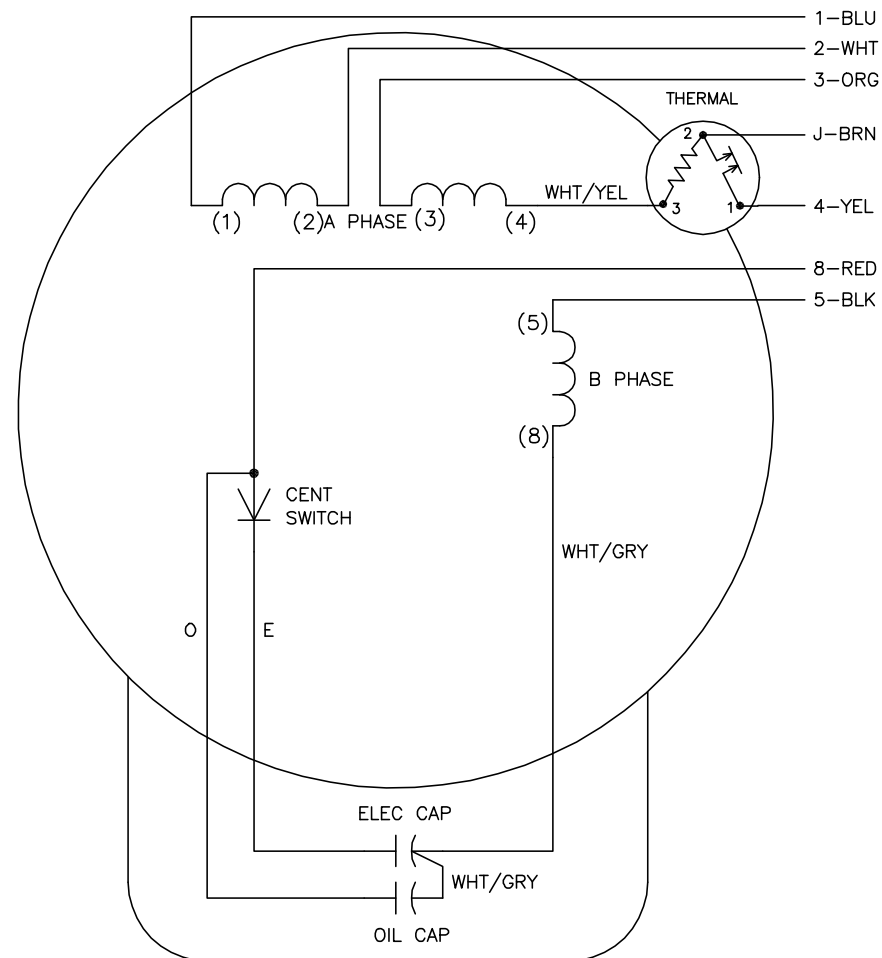
TORQUES (LB-FT): PO=3.28 PU=2.55 LR=3.81 LRA=49.8



10/7/2026 ACPERF, record # 52885



CD0320



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1,8	4	2,3,5	J
HIGH OPP	1,5	4	2,3,8	J
LOW STD	1,3,8	4	—	2,J,5
LOW OPP	1,3,5	4	—	2,J,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING

REV. LTR: G

VERSION: 01

TDR: 000000941594

FILE: \AAA\00007\422

REVISED: 02:21:00 08/28/2015

BY: ENALEMO

MTL: —



BALDOR

TYPE LC, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD

SH 1 of 1

CD0320