

BALDOR • RELIANCE

Customer information packet

33E388W698

.17HP, 1650//1375RPM, 1PH, 60//50HZ, 42CZ, 33

Specifications

Enclosure	OPEN
Frame	42CZ
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Oil Capacitor Start and Run
Output @ Frequency	.170 HP @ 50 HZ .170 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	110.0 V @ 50 HZ 110.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.350 A @ 110.0 V 1.800 A @ 110.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	64.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Feedback Signal	NONE
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	AU
Type	AC
Mech. spec.	33E388
Base	
Status	PRD/A
Elec. spec.	33WGW698
Layout	33LYE388
Eff. date	11-06-2024
CD Diagram	CD0531A05
Poles	04
Leads	5#18
Proprietary	False
Created date	06-25-2007

High Voltage Full Load Amps	1.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	-
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Lead Hole
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3318C
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.18 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Special Combination
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	1375 rpm 1650 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	WG
Winding Thermal 2	None

Nameplate

NP1257L									
CAT.NO.	50HZ VOLTAGE TOL: +/- 5%								
SPEC.	33E388W698								
HP	.17								
VOLTS	110								
AMP	1.8//2.35								
RPM	1650//1375								
FRAME	42CZ		HZ	60//50	PH	1			
SER.F.	1.25	CODE	-	DES	-	CL	F		
NEMA-NOM-EFF	64	PF	90						
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	OPEN	SN							
	SFA 2//2.65								

AC Induction Motor Performance Data

Record # 6512

Typical performance - not guaranteed values

Winding: 33WGW698		Type: 3318C	Enclosure: OPEN	
Nameplate Data			115 V, 50 Hz: Single Voltage Motor	
Rated Output (HP)	.17	Full Load Torque	0.64 LB-FT	
Volts	115	Start Configuration	direct on line	
Full Load Amps	2.6//1.9	Breakdown Torque	1.5 LB-FT	
R.P.M.	1400//1700	Pull-up Torque	0.58 LB-FT	
Hz	50//60 Phase	Locked-rotor Torque	0.61 LB-FT	
NEMA Design Code	- KVA Code	Starting Current	7.04 A	
Service Factor (S.F.)	1.25	No-load Current	2.303 A	
NEMA Nom. Eff.	0 Power Factor	Line-line Res. @ 25°C	4.512 Ω A Ph 7.502 Ω B Ph	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	85°C	
S.F. Amps	2.8//2.1	Temp. Rise @ S.F. Load	88°C	

Load Characteristics 115 V, 50 Hz, 0.17 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	60	66	74	79	85	79
Efficiency	24.3	40.6	51.8	56.8	60.5	60.4	60.5
Speed	1461	1438	1414	1383	1353	1312	1353
Line amperes	2.3	2.352	2.444	2.61	2.785	3.042	2.78

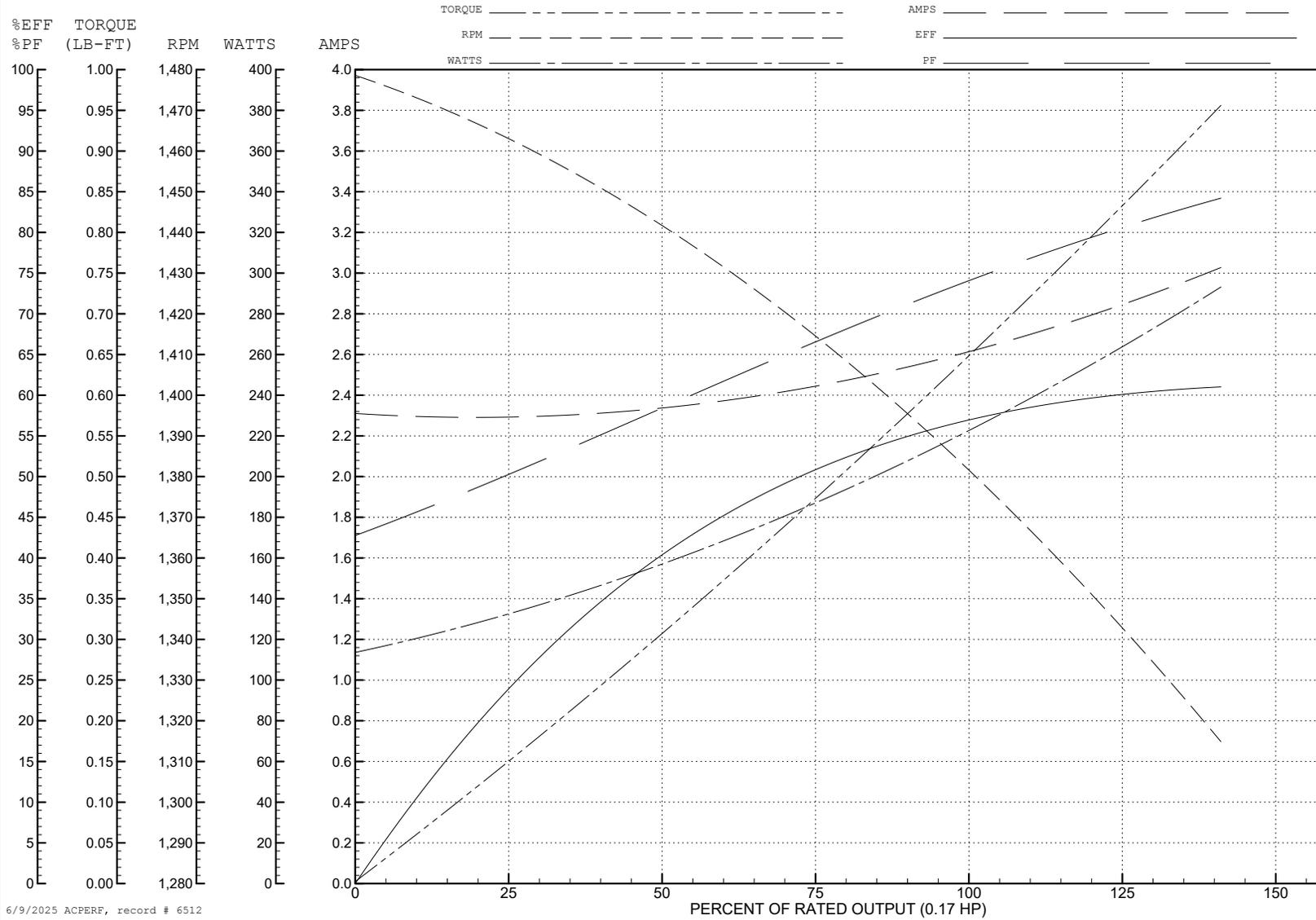
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WINDING # 33WGW698

0.17 HP 1 PH 50 HZ 1383 RPM 115 V 3318C

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=1.5 PU=0.58 LR=0.61 LRA=7.04



6/9/2025 ACPERF, record # 6512

AC Induction Motor Performance Data

Record # 6513

Typical performance - not guaranteed values

Winding: 33WGW698		Type: 3318C	Enclosure: OPEN	
Nameplate Data			115 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	.17	Full Load Torque	0.529 LB-FT	
Volts	115	Start Configuration	direct on line	
Full Load Amps	2.6//1.9	Breakdown Torque	1.34 LB-FT	
R.P.M.	1400//1700	Pull-up Torque	0.6 LB-FT	
Hz	50//60 Phase	Locked-rotor Torque	0.61 LB-FT	
NEMA Design Code	- KVA Code	D	Starting Current	6.51 A
Service Factor (S.F.)	1.25	No-load Current	1.171 A	
NEMA Nom. Eff.	0 Power Factor	0	Line-line Res. @ 25°C	4.512 Ω A Ph 7.502 Ω B Ph
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load		
S.F. Amps	2.8//2.1	Temp. Rise @ S.F. Load		

Load Characteristics 115 V, 60 Hz, 0.17 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	79	86	88	90	94	94	94
Efficiency	28.1	45.9	57.9	64.7	67.3	68	67.3
Speed	1761	1740	1714	1683	1653	1608	1653
Line amperes	1.294	1.443	1.647	1.885	2.124	2.457	2.12

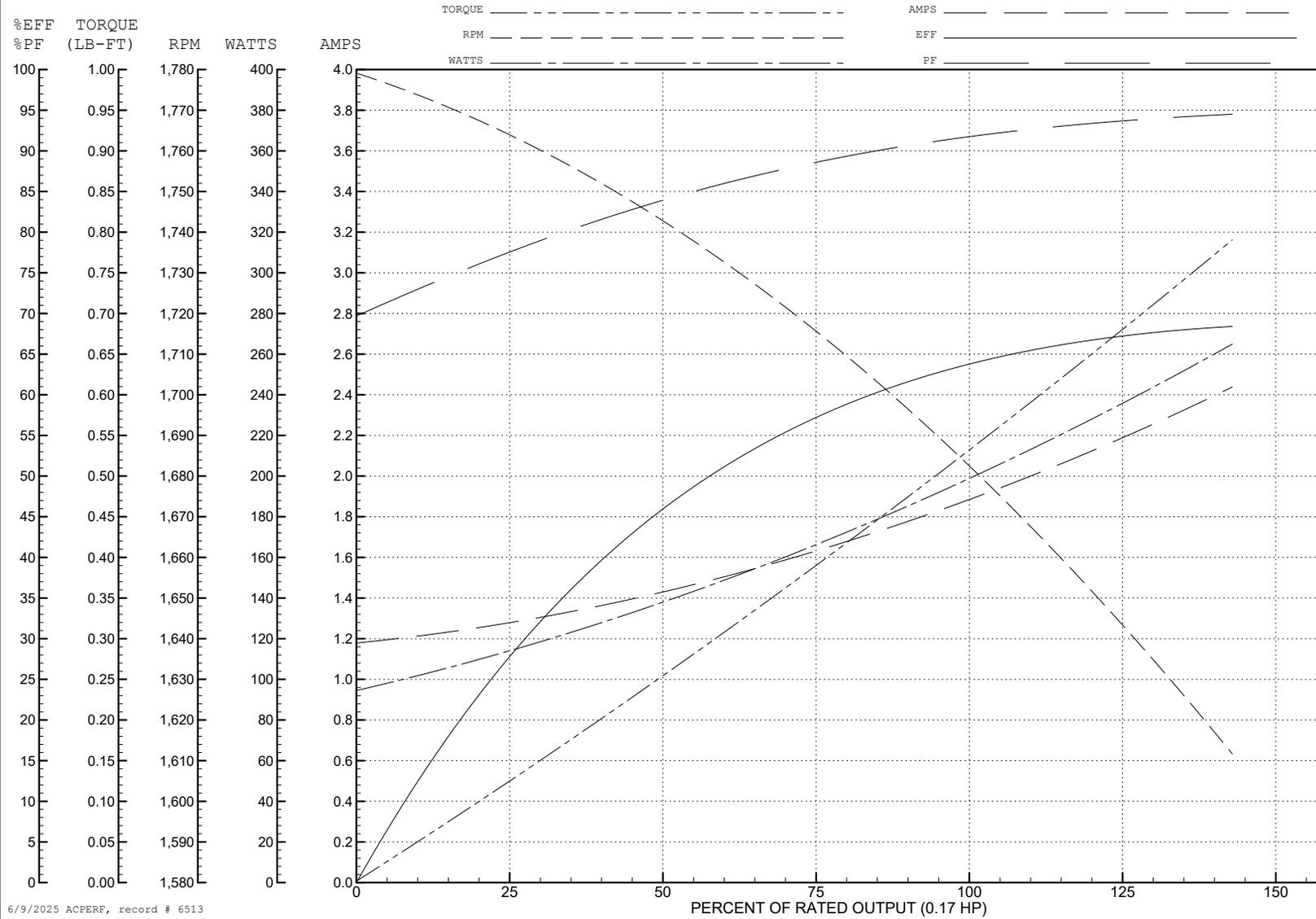
ABB Motors and Mechanical Inc.

WINDING # 33WGW698

0.17 HP 1 PH 60 HZ 1683 RPM 115 V 3318C

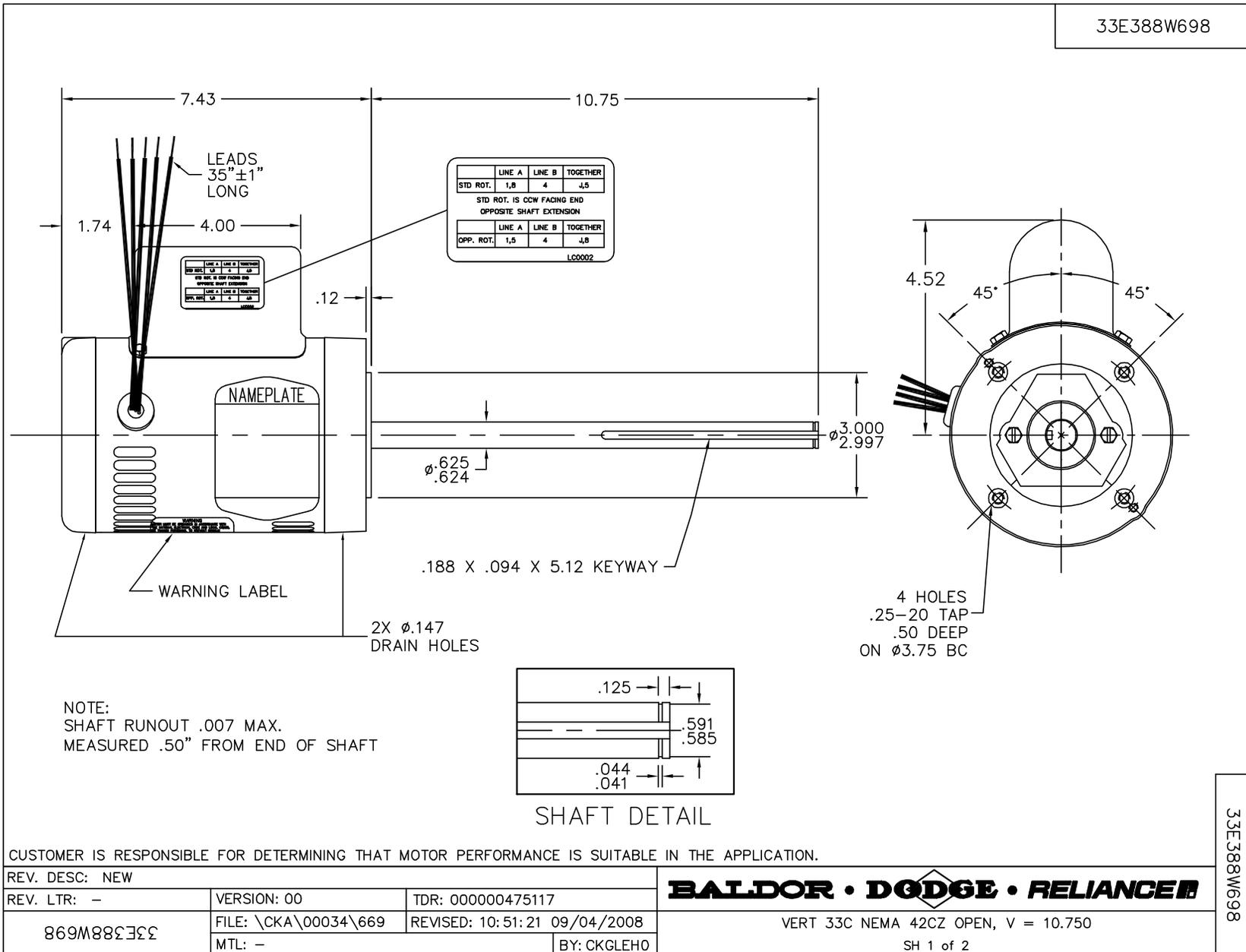
Typical performance - not guaranteed values.

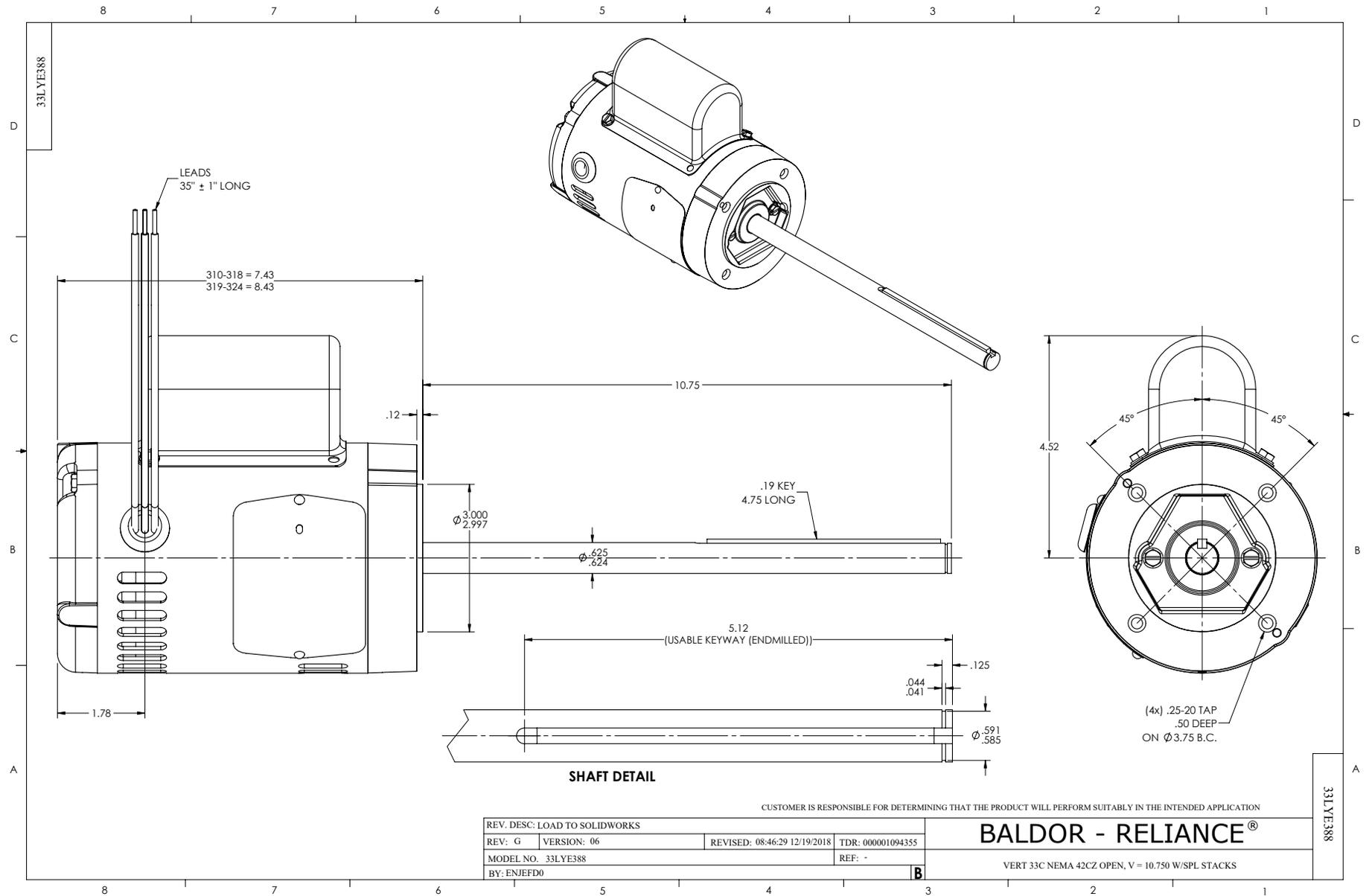
TORQUES (LB-FT): PO=1.34 PU=0.6 LR=0.61 LRA=6.51



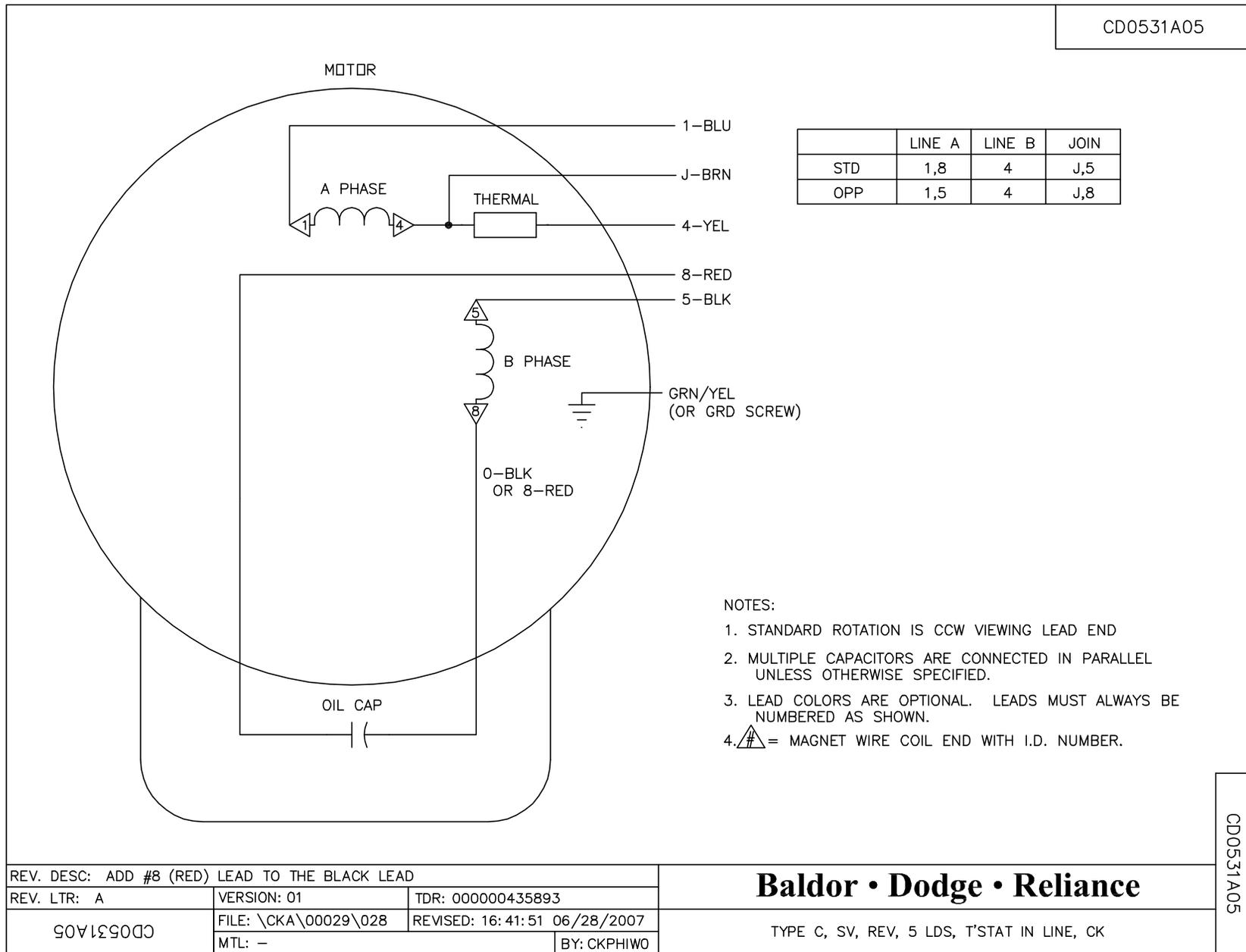
6/9/2025 ACPERF, record # 6513

33E388W698





CD0531A05



REV. DESC: ADD #8 (RED) LEAD TO THE BLACK LEAD		
REV. LTR: A	VERSION: 01	TDR: 000000435893
CD0531A05	FILE: \CKA\00029\028	REVISED: 16:41:51 06/28/2007
	MTL: -	BY: CKPHIWO

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TYPE C, SV, REV, 5 LDS, T'STAT IN LINE, CK

CD0531A05