

ABB BALDOR RELIANCE III

Customer information packet EL3507

.75HP, 1755RPM, 1PH, 60HZ, 56, 3522LC, TEFC, F1

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	Cap Start, Cap Run
Output @ Frequency	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 V @ 60 HZ 115.0 V @ 60 HZ
Agency Approvals	C UR US
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
Current @ Voltage	6.100 A @ 115.0 V 3.350 A @ 208.0 V 3.050 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.1 a

Part Detail

Revision	C
Type	AC
Mech. spec.	35E008
Base	
Status	PRD/A
Elec. spec.	35WGL999
Layout	35LYE008
Eff. date	04-29-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	02-23-2023

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.25 IN
Power Factor	95
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 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

NP2116L									
CAT.NO.	EL3507								
SPEC.	35E008L999G1								
HP	.75								
VOLTS	115/208-230								
AMP	6.1/3.35-3.05								
RPM	1755								
FRAME	56			HZ	60			PH	1
SER.F.	1.25		CODE	L		DES	N	CL	F
NEMA-NOM-EFF	82.5		PF	95					
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC		SN						
	SFA 7.6/4.3-3.8								

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 85084

Typical performance - not guaranteed values

Winding: 35WGL999-R002			Type: 3522LC		Enclosure: OPEN		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		2.25 LB-FT		
Volts		115/208-230	Start Configuration		direct on line		
Full Load Amps		6.1/3.3-3.0	Breakdown Torque		6.17 LB-FT		
R.P.M.		1755	Pull-up Torque		5.27 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		9.16 LB-FT	
NEMA Design Code		N	KVA Code	L	Starting Current		59 A
Service Factor (S.F.)		1.25		No-load Current		2.04 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		1.09 Ω A Ph 1.33 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		23°C	
S.F. Amps		7.7/4.3-3.8		Temp. Rise @ S.F. Load		29°C	
				Locked-rotor Power Factor		99.6	
				Rotor inertia		0.159 lb-ft²	

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	77	91	94	96	95	96	95
Efficiency	60.6	76.6	82	83.2	82.4	80.7	82.4
Speed	1788	1777	1766	1753	1736	1718	1736
Line amperes	2.64	3.52	4.75	6.12	7.74	9.43	7.74

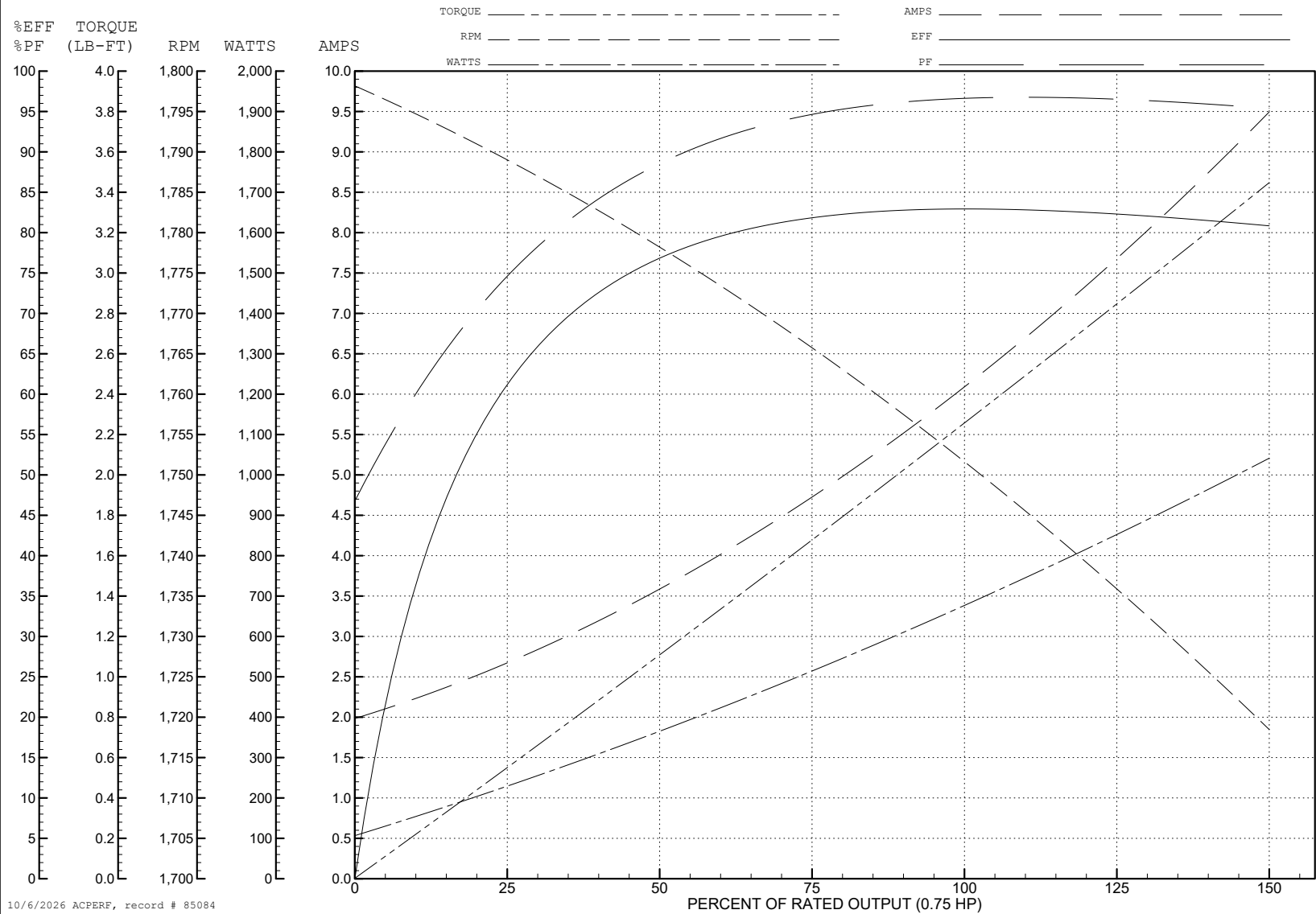
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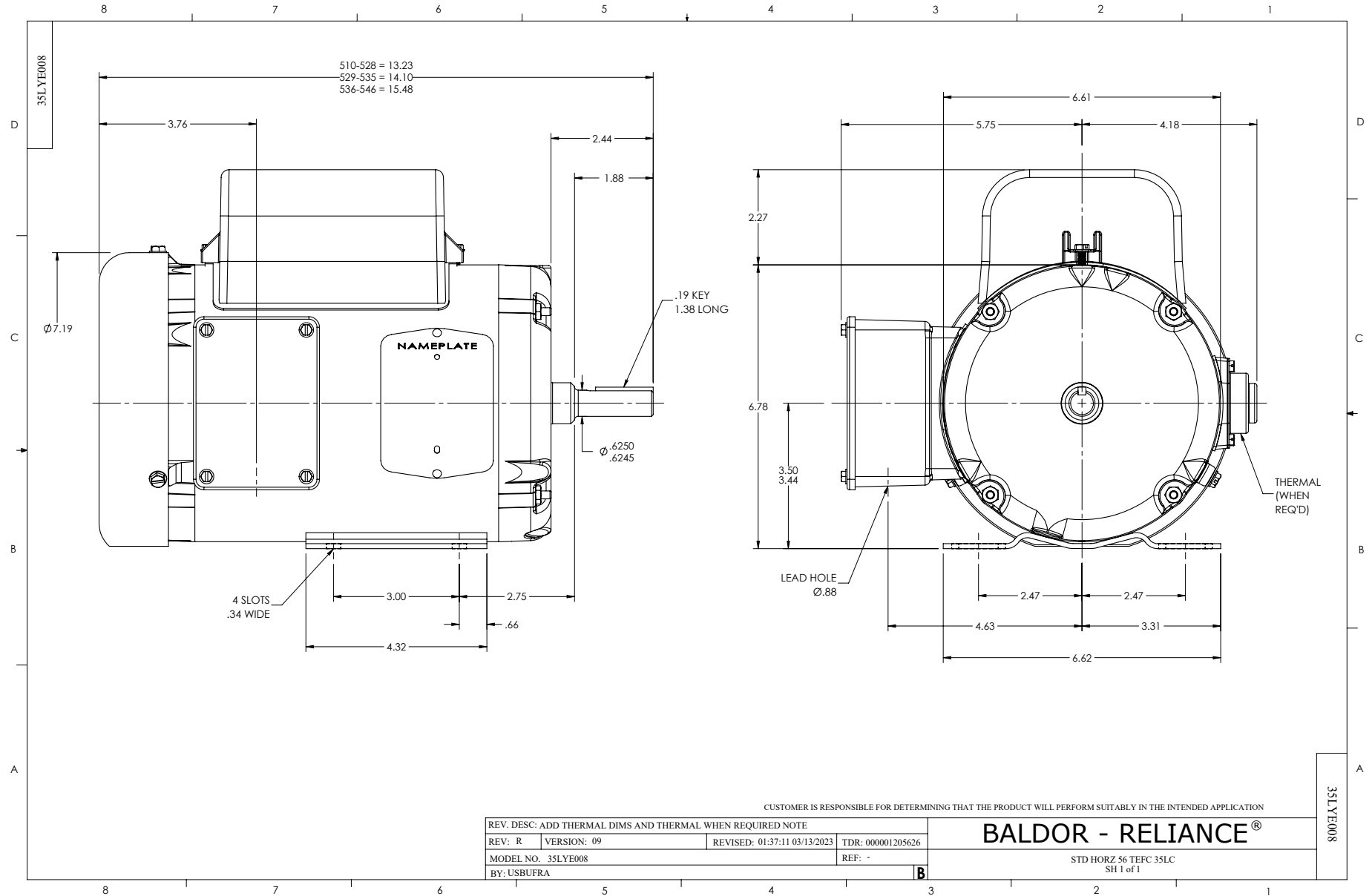
WINDING # 35WGL999

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1755 RPM 115 V 3522LC

TORQUES (LB-FT) : PO=6.17 PU=5.27 LR=9.16 LRA=59





CD0055

