

ABB BALDOR RELIANCE III

Customer information packet

EL1409T

5HP, 3450RPM, 1PH, 60HZ, 184T, 3634LC, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	184T
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	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV C UR US CURUS
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	20.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	20.0 a
Insulation Class	F

Part Detail

Revision	X
Type	AC
Mech. spec.	36E002
Base	
Status	PRD/A
Elec. spec.	36WGS116
Layout	36LYE002
Eff. date	12-27-2024
CD Diagram	CD0017A02
Poles	02
Leads	2#14 A PH,2#16 B PH
Proprietary	False
Created date	11-13-2008

Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3634LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.00 IN
Power Factor	97
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
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	None
Winding Thermal 2	None

Nameplate

NP2116L											
CAT.NO.	EL1409T										
SPEC.	36E002S116E7										
HP	5										
VOLTS	230										
AMP	20										
RPM	3450										
FRAME	184T				HZ		60		PH		1
SER.F.	1.15	CODE	F	DES		L	CL	F			
NEMA-NOM-EFF	81.5	PF	97								
RATING	40C AMB-CONT										
CC											
DE	6206	ODE		6205							
ENCL	OPEN	SN									

AC Induction Motor Performance Data

Record # 61435

Typical performance - not guaranteed values

Winding: 36WGS116-R002			Type: 3634LC		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5	Full Load Torque		7.39 LB-FT		
Volts		230	Start Configuration		direct on line		
Full Load Amps		20	Breakdown Torque		19.7 LB-FT		
R.P.M.		3450	Pull-up Torque		14.3 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		15.9 LB-FT	
NEMA Design Code		L	KVA Code	F	Starting Current		114 A
Service Factor (S.F.)		1.15		No-load Current		2.2 A	
NEMA Nom. Eff.		81.5	Power Factor	97	Line-line Res. @ 25°C		0.425 Ω A Ph 1.4 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		45°C	
S.F. Amps				Temp. Rise @ S.F. Load		57°C	

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	96	98	98	97	97	96	97
Efficiency	67.6	79	82	81.6	79.3	74	80.2
Speed	3556	3527	3493	3456	3409	3334	3428
Line amperes	5.56	9.83	14.6	19.9	25.8	34.6	23.4

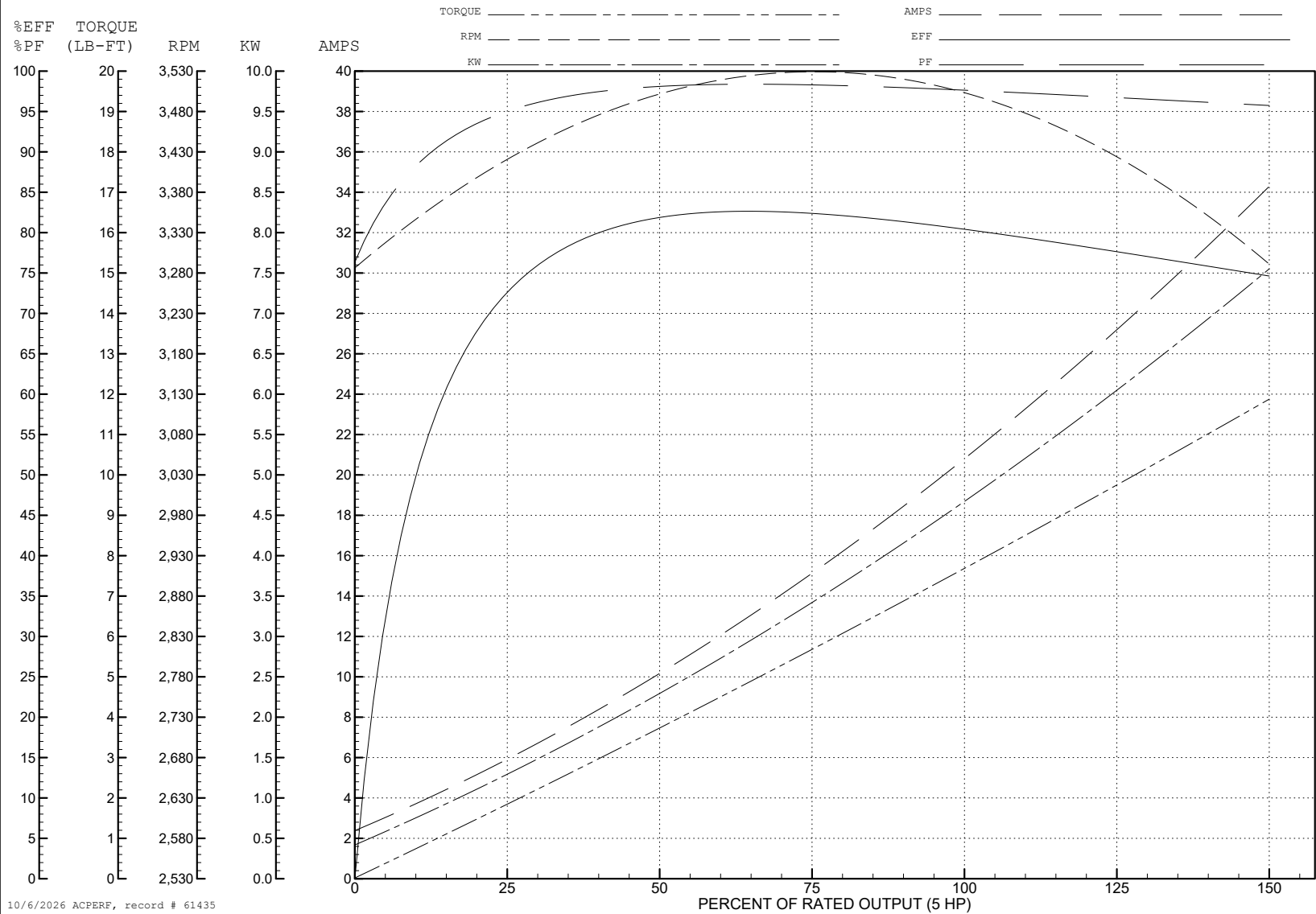
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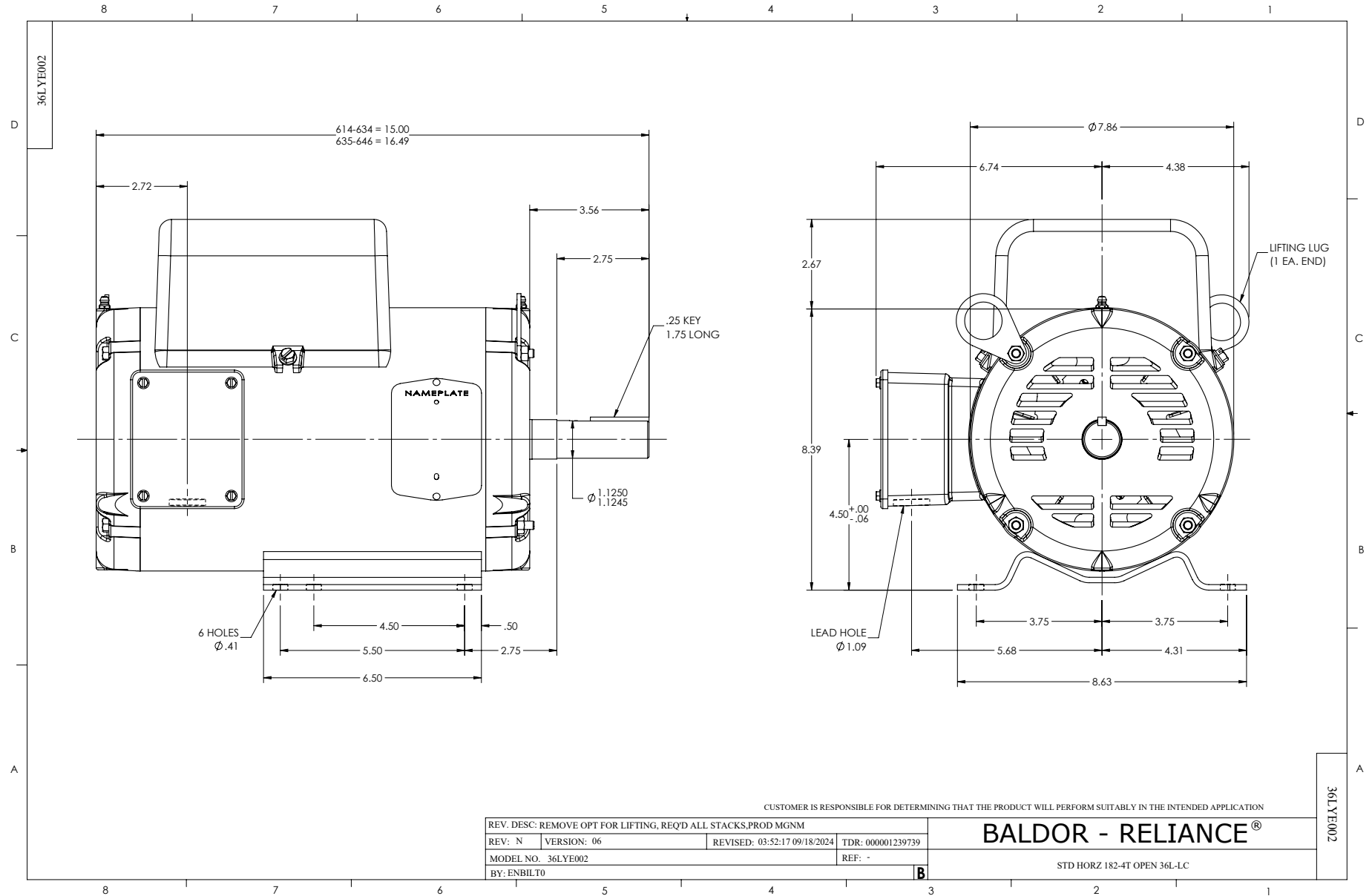
WINDING # 36WGS116

Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 3450 RPM 230 V 3634LC

TORQUES (LB-FT): PO=19.7 PU=14.3 LR=15.9 LRA=114





CD0017A02

