

ABB BALDOR RELIANCE III

Customer information packet

EL1406T

3HP, 3450RPM, 1PH, 60HZ, 182T, 3628LC, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	182T
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	3.000 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 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	24.600 A @ 115.0 V 12.300 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.0 %
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	W
Type	AC
Mech. spec.	36E002
Base	
Status	PRD/A
Elec. spec.	36WGS117
Layout	36LYE002
Eff. date	05-05-2025
CD Diagram	CD0055
Poles	02
Leads	4#14 A PH,2#16 B PH
Proprietary	False
Created date	11-13-2008

High Voltage Full Load Amps	12.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.00 IN
Power Factor	98
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.	EL1406T										
SPEC.	36E002S117E7										
HP	3										
VOLTS	115/230										
AMP	24.6/12.3										
RPM	3450										
FRAME	182T			HZ	60			PH	1		
SER.F.	1.15		CODE	G		DES	L	CL	F		
NEMA-NOM-EFF	81		PF	98							
RATING	40C AMB-CONT										
CC											
DE	6206		ODE	6205							
ENCL	OPEN		SN								

AC Induction Motor Performance Data

Record # 28249

Typical performance - not guaranteed values

Winding: 36WGS117-R001			Type: 3628LC		Enclosure: OPEN	
Nameplate Data			230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		3	Full Load Torque		4.56 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		24.6/12.3	Breakdown Torque		22.1 LB-FT	
R.P.M.		3450	Pull-up Torque		6.56 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		8.88 LB-FT	
NEMA Design Code		L KVA Code	Starting Current		78 A	
Service Factor (S.F.)		1.15	No-load Current		1.46 A	
NEMA Nom. Eff.		81 Power Factor	Line-line Res. @ 25°C		0.74602 Ω A Ph 0.85786 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		32°C	
S.F. Amps			Temp. Rise @ S.F. Load		39°C	

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	98	98	98	98	97	96	97
Efficiency	67.4	77.6	81.1	81.1	79.6	75.5	80.2
Speed	3559	3533.3	3506	3471.6	3436.5	3370.6	3451
Line amperes	3.72	6.42	9.17	12.3	15.7	21	14.3

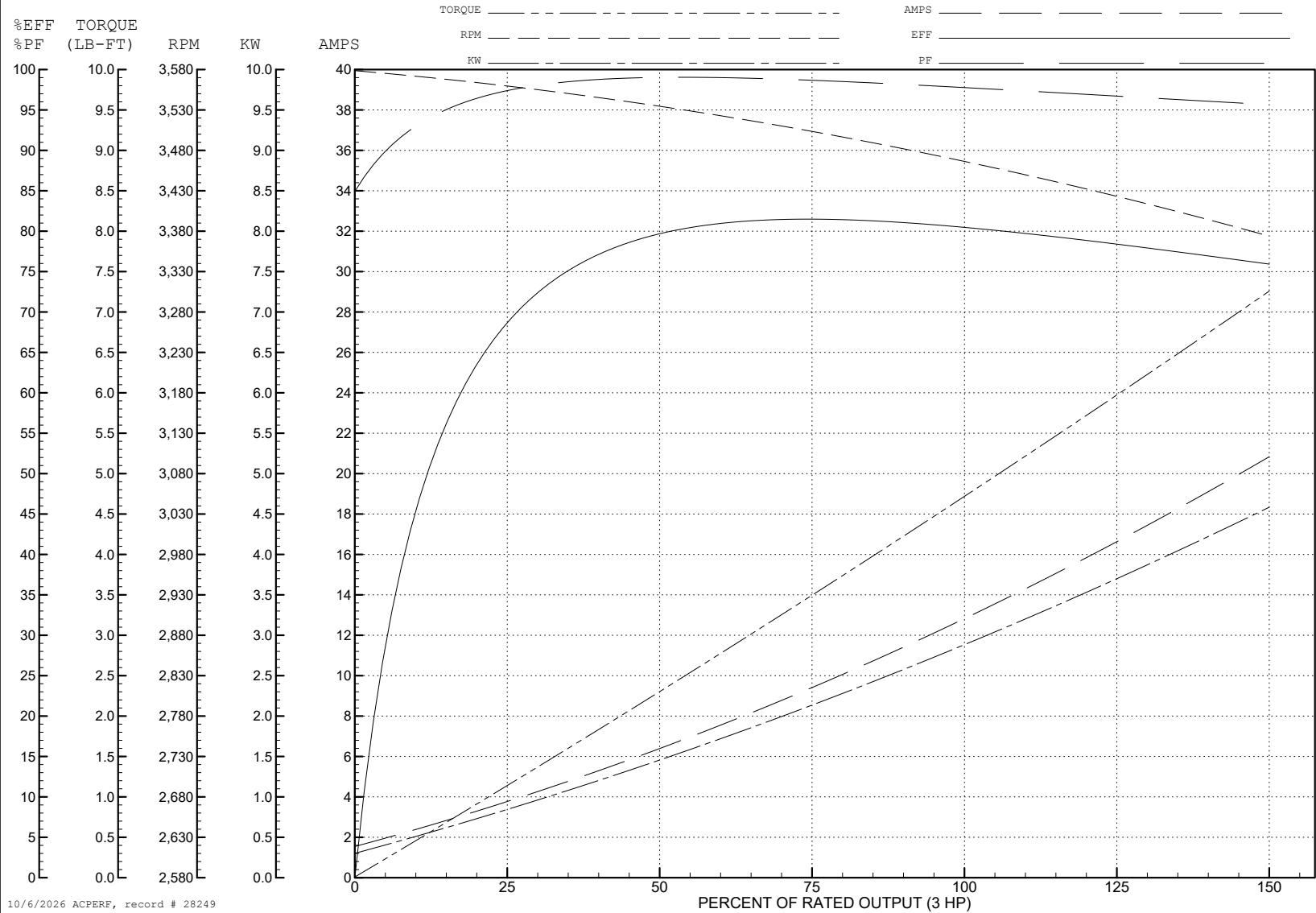
ABB Motors and Mechanical Inc.

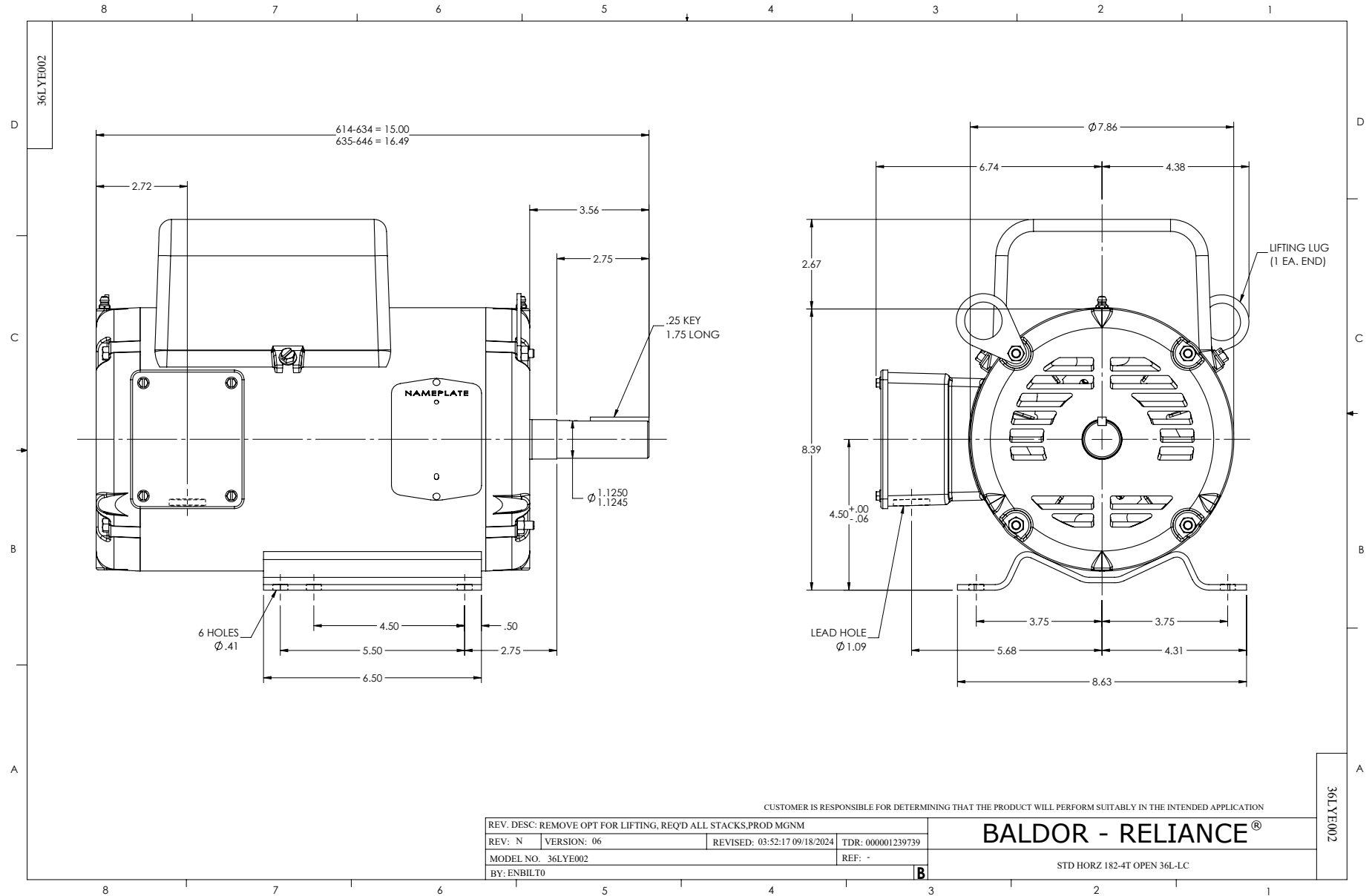
WINDING # 36WGS117

Typical performance - not guaranteed values.

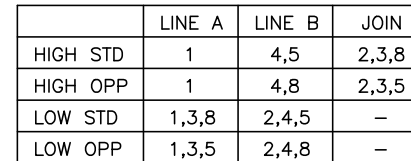
3 HP 1 PH 60 HZ 3450 RPM 230 V 3628LC

TORQUES (LB-FT) : PO=22.1 PU=6.56 LR=8.88 LRA=78





CD00055



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

TYPE LC, DV, REV, 6 LEADS