

ABB BALDOR RELIANCE III

Customer information packet

L1509T

7.5HP, 3450RPM, 1PH, 60HZ, 213T, 3640LC, OPEN

Class - None

Division - Not Applicable

Specifications

Enclosure	ODTF
Frame	213T
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	7.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 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	30.000 A @ 230.0 V 33.000 A @ 208.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
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	30.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	Z
Type	AC
Mech. spec.	36H282
Base	
Status	PRD/A
Elec. spec.	36WGY373
Layout	36LYH282
Eff. date	05-09-2024
CD Diagram	CD0017A02
Poles	02
Leads	2#10 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.36 IN
Power Factor	96
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	1.375 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

NP1256L									
CAT.NO.	L1509T								
SPEC.	36H282Y373G2								
HP	7.5								
VOLTS	230								
AMP	30								
RPM	3450								
FRAME	213T		HZ	60			PH	1	
SER.F.	1.15	CODE	H	DES	L	CLASS		F	
NEMA-NOM-EFF	82.5	PF	96						
RATING	40C AMB-CONT								
CC									
DE	6207		ODE	6205					
ENCL	ODTF	SN							

Accessories

Part number	Description	Multiplier
36-1206B	C FACE KIT 213-5TC ODP	A8

AC Induction Motor Performance Data

Record # 23623

Typical performance - not guaranteed values

Winding: 36WGY373-R003			Type: 3640LC		Enclosure: OPAO	
Nameplate Data				230 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		7.5		Full Load Torque		11.4 LB-FT
Volts		208-230		Start Configuration		direct on line
Full Load Amps		33-30		Breakdown Torque		31.6 LB-FT
R.P.M.		3450		Pull-up Torque		24.6 LB-FT
Hz		60 Phase		Locked-rotor Torque		30.9 LB-FT
NEMA Design Code		L KVA Code		Starting Current		215 A
Service Factor (S.F.)		1.15		No-load Current		7.35 A
NEMA Nom. Eff.		82.5 Power Factor		Line-line Res. @ 25°C		0.25 Ω A Ph 0.881 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C
S.F. Amps				Temp. Rise @ S.F. Load		74°C

Load Characteristics 230 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	82	92	94	96	96	96	96
Efficiency	65.8	78.7	82.9	82	80.4	77.2	81
Speed	3562	3531	3498	3458	3413	3358	3431
Line amperes	11.1	16.7	23.3	31.1	39.6	49.7	36.2

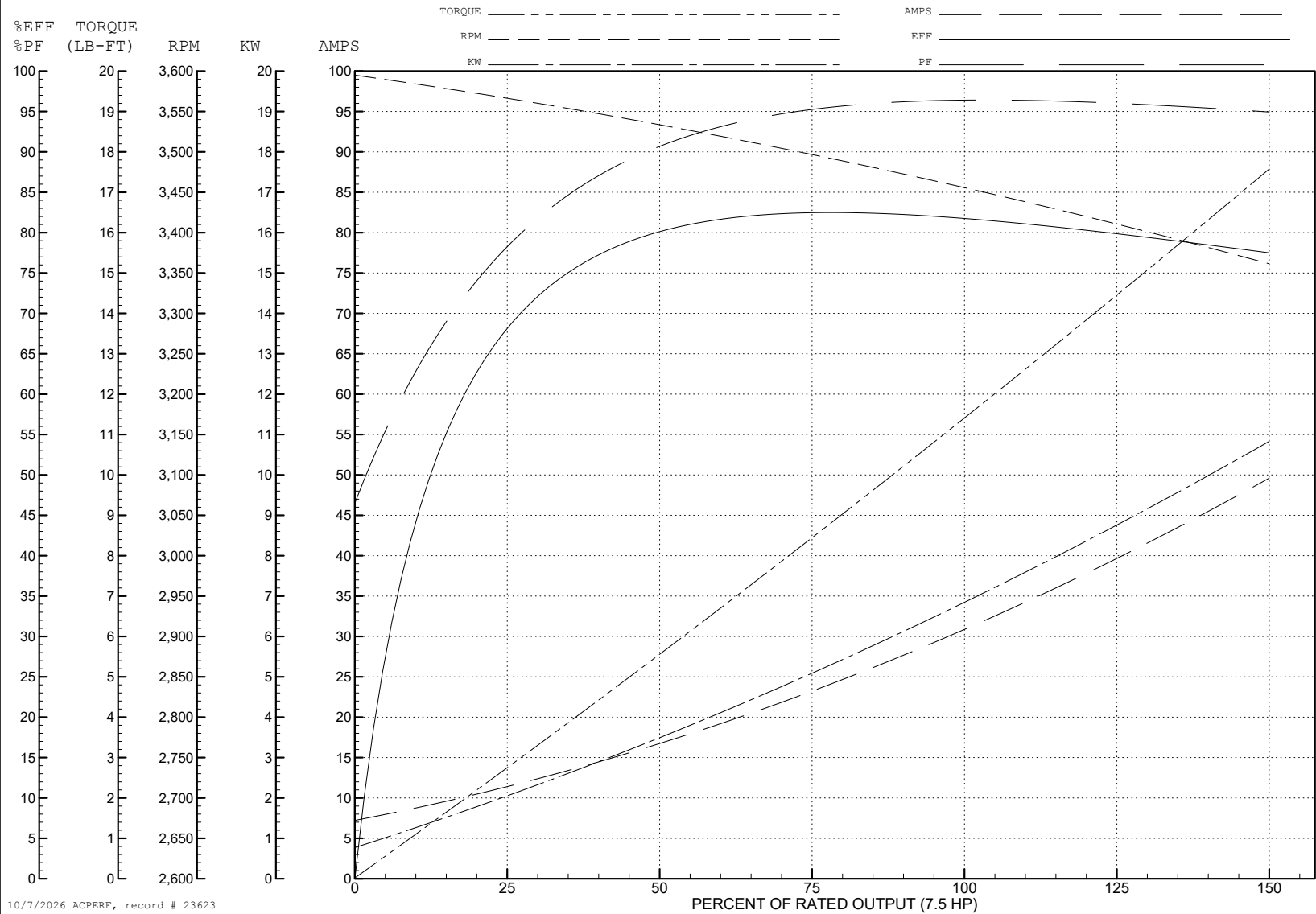
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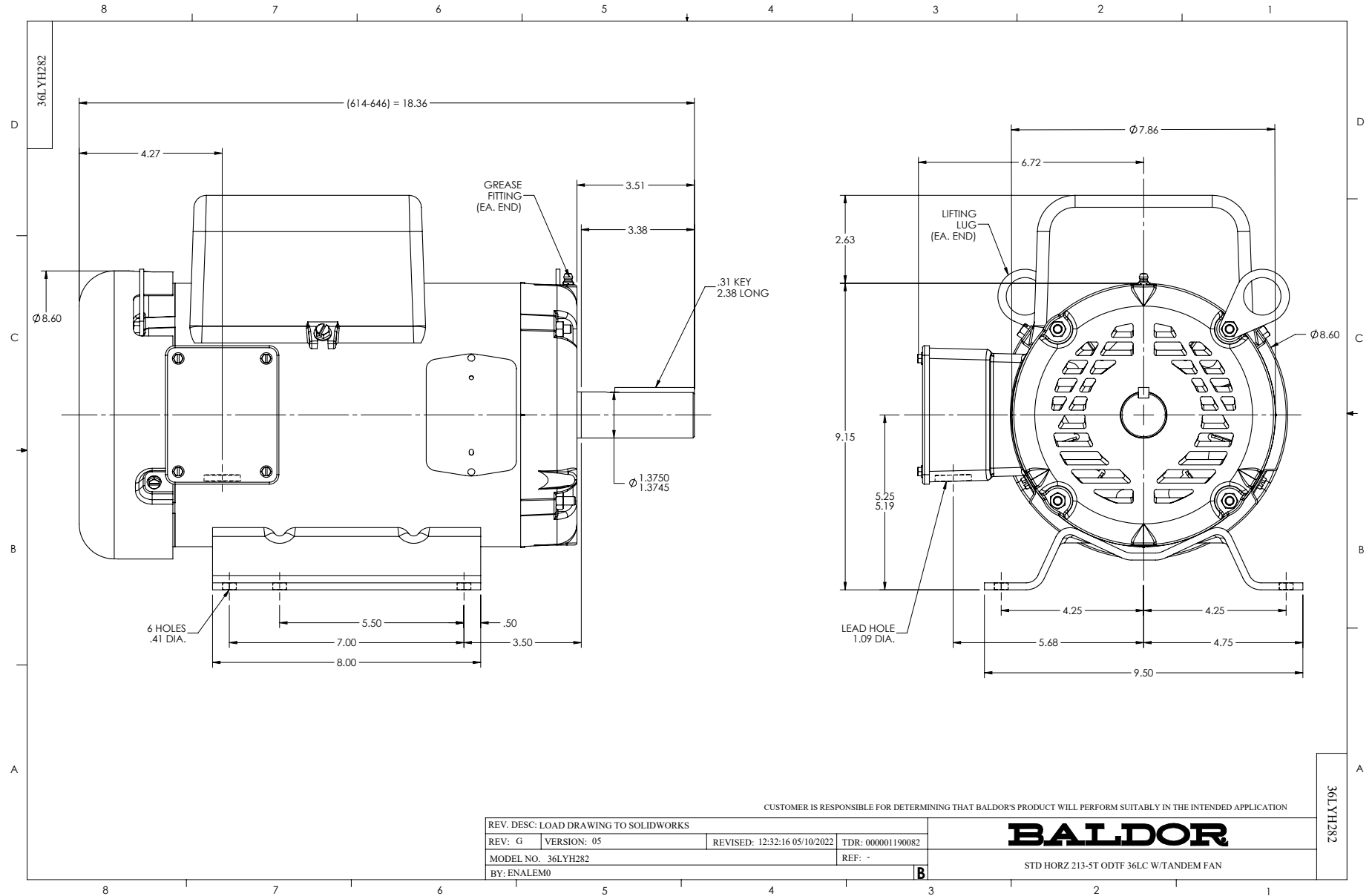
WINDING # 36WGY373

Typical performance - not guaranteed values.

7.5 HP 1 PH 60 HZ 3450 RPM 230 V 3640LC

TORQUES (LB-FT): PO=31.6 PU=24.6 LR=30.9 LRA=215





CD0017A02

