

ABB BALDOR RELIANCE III

Customer information packet

CL5027T-50

2HP, 1425RPM, 1PH, 50HZ, 182TC, X3646L, XPFC

Class - CLI GP D

Division - Division I

Specifications

Enclosure	XPFC
Frame	182TC
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	2.000 HP @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	220.0 V @ 50 HZ 110.0 V @ 50 HZ
Agency Approvals	CSA UL
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	23.000 A @ 110.0 V 11.500 A @ 220.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T2C
Heater Indicator	No Heater

Part Detail

Revision	AN
Type	AC
Mech. spec.	36G377
Base	
Status	PRD/A
Elec. spec.	36WGX415
Layout	36LYG377
Eff. date	02-21-2024
CD Diagram	CD0001
Poles	04
Leads	4#14 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	11.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3646L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.36 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
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	1425 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP0015XPSL					
NO.		CC			
SER. #					
SPEC	36G377X415				
CAT.NO.					
H.P.	2	T. CODE	T2C		
VOLTS	110/220				
AMPS	23/11.5				
R.P.M.	1425				
HZ	50	PH	1	CLASS	B
SER.F.	1.00	DES	L	CODE	K
RATING	40C AMB-CONT				
FRAME	182TC	NEMA NOM. EFF		77	
	PF	78			
BLANK					

AC Induction Motor Performance Data

Record # 10986

Typical performance - not guaranteed values

Winding: 36WGX415-R001			Type: 3646L		Enclosure: TEFC		
Nameplate Data			220 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		7.4 LB-FT		
Volts		110/220	Start Configuration		direct on line		
Full Load Amps		23/11.5	Breakdown Torque		19 LB-FT		
R.P.M.		1425	Pull-up Torque		11 LB-FT		
Hz	50 Phase	1	Locked-rotor Torque		24 LB-FT		
NEMA Design Code		L	KVA Code		K	Starting Current	74 A
Service Factor (S.F.)		1	No-load Current		6.9 A		
NEMA Nom. Eff.		77	Power Factor		78	Line-line Res. @ 25°C	0.856 Ω A Ph 0.661 Ω B Ph
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		72°C		

Load Characteristics 220 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	37	56	68	76	81	84
Efficiency	65	76	78	77	75	70
Speed	1487	1474	1459	1445	1428	1403
Line amperes	7.3	8.4	9.9	11.9	14.2	17.1

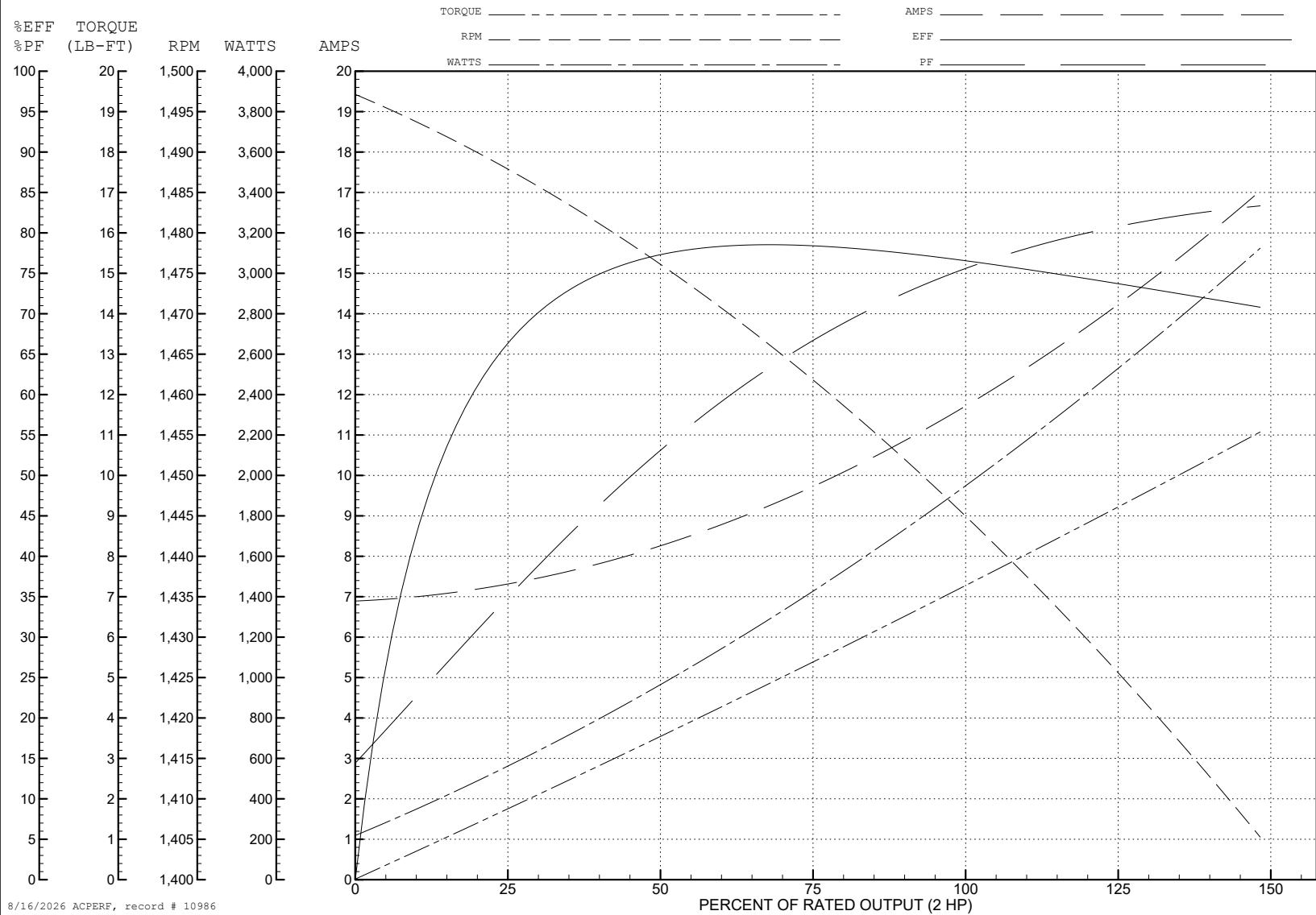
ABB Motors and Mechanical Inc.

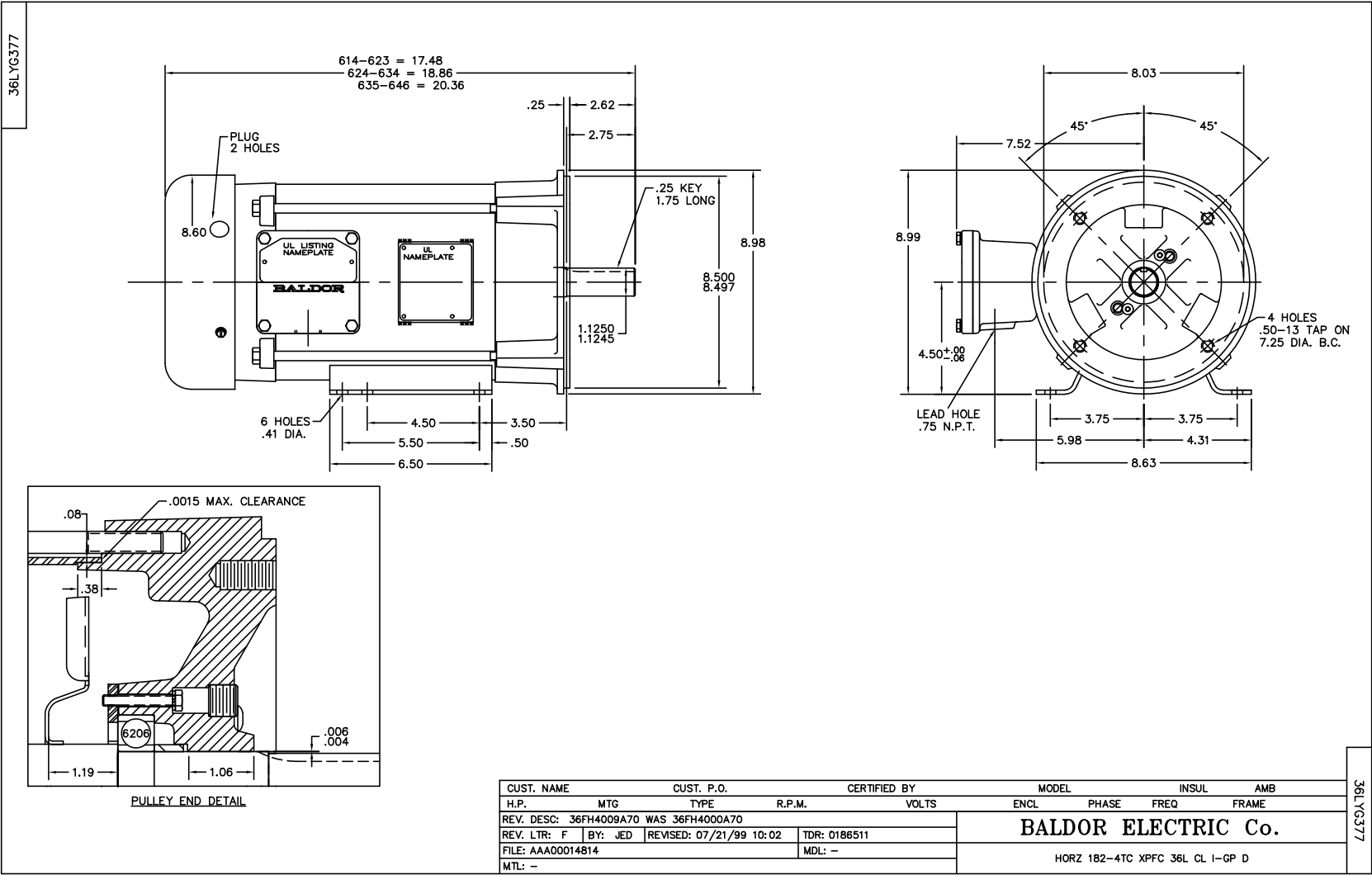
WINDING # 36WGX415

Typical performance - not guaranteed values.

2 HP 1 PH 50 HZ 1425 RPM 220 V 3646L

TORQUES (LB-FT): PO=19 PU=11 LR=24 LRA=74





CD0001

