

BALDOR • RELIANCE

Customer information packet

CDRX21124T-5

10HP, 3500RPM, 3PH, 60HZ, 215TC, XPFC, F1
Class - CLI GP C,D
Division - Division I

Specifications

Enclosure	XPFC
Frame	215TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	9.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	9.0 a
Insulation Class	F
Inverter Code	Inverter Duty

Part detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY302
Layout	07LYJ232
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	07-22-2019

IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0742M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.78 IN
Power Factor	91
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3500 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

NP1401XPSLEV									
NO.		CC	010A						
S/N		TEMP CODE	T3C						
SPEC.	07-0000-0206		INV.TYPE	PWM					
CAT.NO.	CDRX21124T-5		C HP FR	60	C HP TO	90			
HP	10		CT HZ FROM	6	CT HZ TO	60			
VOLTS	575		VT HZ FROM	6	VT HZ TO	60			
AMPS	9		MAG CUR	2.5					
RPM	3500		MX RPM	5400					
HZ	60	PH	3	CL	F	NOM.EFF.	90.2		
SER.F.	1.00	DES	B	SL HZ	1.7	WK2	0.38		
FRAME	215TC	RATING	40C AMB-CONT						
	1.15 SF SINEWAVE								
	55C AMB @ 1.0SF		NEMA MG-1 PT 5,IP55						

AC Induction Motor Performance Data

Record # 77549

Typical performance - not guaranteed values

Winding: 07WGY302-R004		Type: 0742M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)	10	Full Load Torque	14.8 LB-FT		
Volts	575	Start Configuration	direct on line		
Full Load Amps	9	Breakdown Torque	66.48 LB-FT		
R.P.M.	3500	Pull-up Torque	22.14 LB-FT		
Hz	60	Locked-rotor Torque	28.67 LB-FT		
NEMA Design Code	B	Starting Current	64.07 A		
Service Factor (S.F.)	1	No-load Current	2.45 A		
NEMA Nom. Eff.	90.2	Line-line Res. @ 25°C	1.26 Ω		
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	50°C		
		Locked-rotor Power Factor	30.4		
		Rotor inertia	0.383 LB-FT ²		

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	64	82	88	90	91	90
Efficiency	89.2	92.3	92.2	91.4	90.2	88.9
Speed	3576	3554	3530	3503	3473	3440
Line amperes	3.24	4.96	6.86	9.03	11.28	13.93

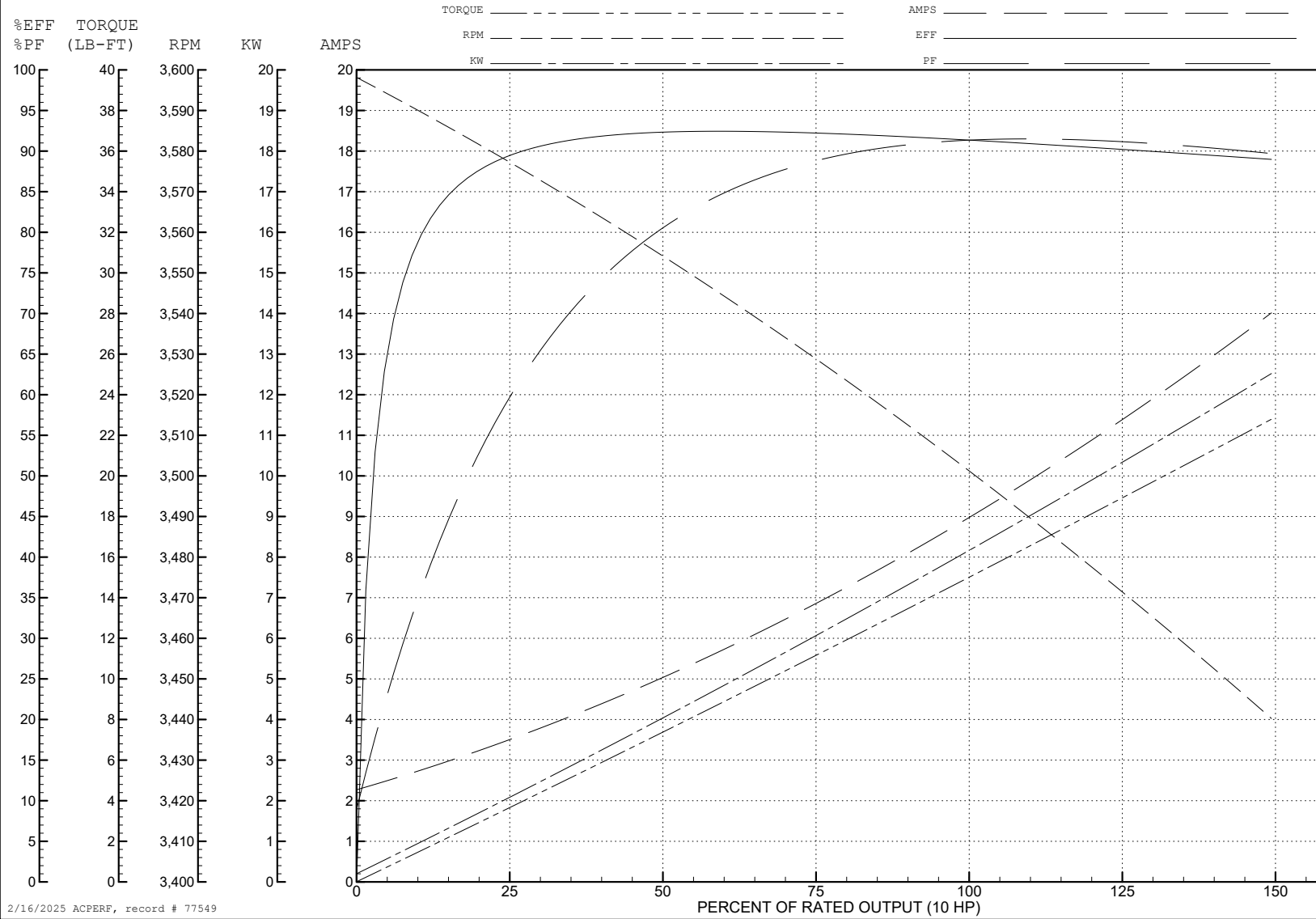
ABB Motors and Mechanical Inc.

WINDING # 07WGY302

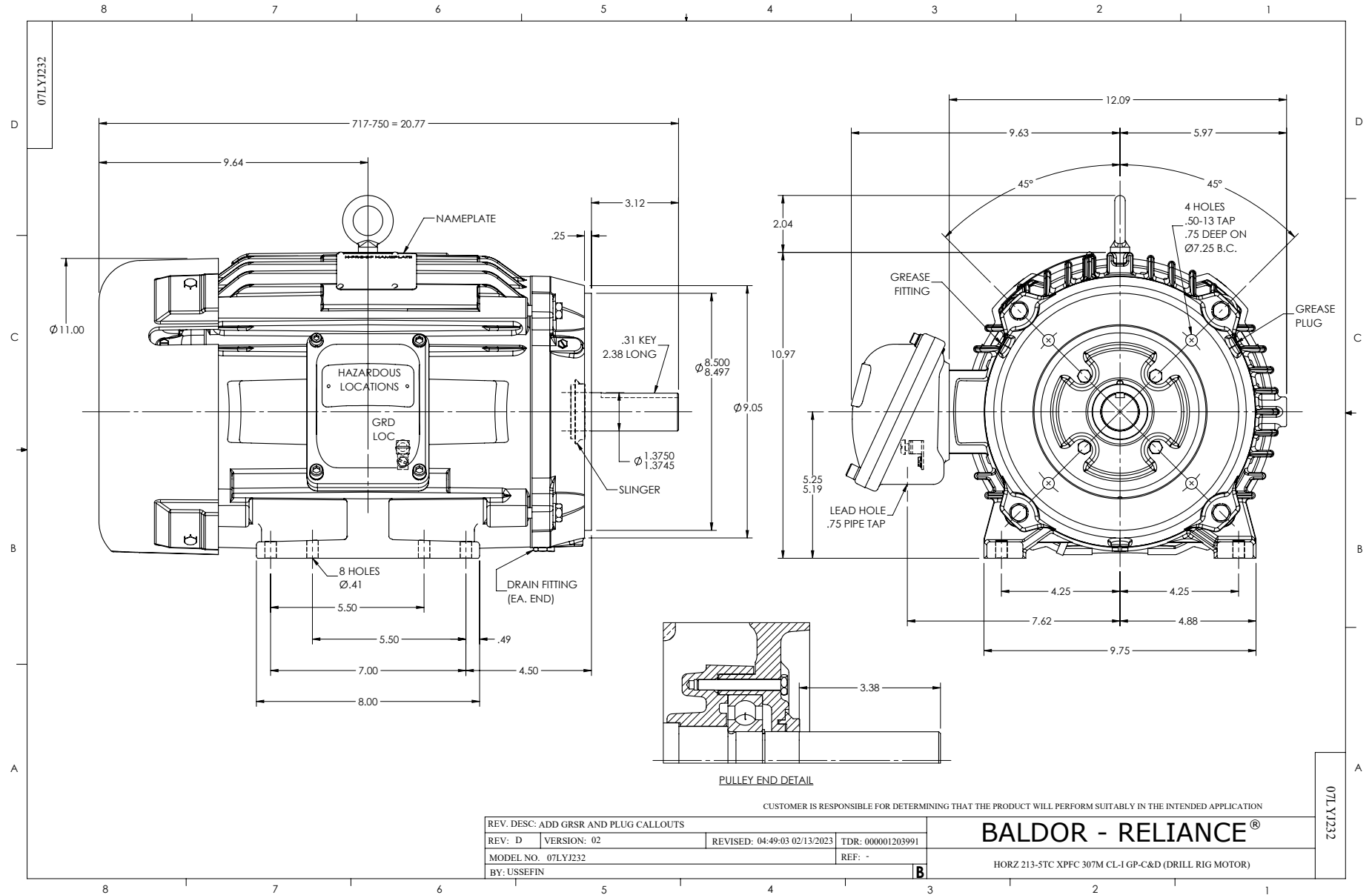
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3500 RPM 575 V 0742M

TORQUES (LB-FT): PO=66.48 PU=22.14 LR=28.67 LRA=64.07



2/16/2025 ACPERF, record # 77549



CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIRO
MTL: -	© □	

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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