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# Customer information packet

## XT3156T

15HP, 1175RPM, 3PH, 60HZ, 284T, 1046M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

Enclosure	TEFC
Frame	284T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
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	3
Current @ Voltage	42.000 A @ 230.0 V 42.000 A @ 208.0 V 21.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated

## Part detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY561
Layout	10LYC151
Eff. date	06-28-2024
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	12-04-2020

<b>Feedback Device</b>	NO FEEDBACK
<b>Haz Area Temp Code</b>	T3A
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	21.0 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>IP Rating</b>	NONE
<b>KVA Code</b>	H
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	1046M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	6
<b>Overall Length</b>	27.76 IN
<b>Power Factor</b>	73
<b>Product Family</b>	General Purpose
<b>Pulley Face Code</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.875 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Speed</b>	1175 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP4163L</b>									
<b>CAT.NO.</b>	XT3156T				<b>I.P.</b>	54			
<b>SPEC.</b>	10-0000-1865				<b>ENCL</b>	TEFC			
<b>FRAME</b>	284T		<b>H.P.</b>	15					
<b>VOLTS</b>	230/460		<b>P.F.</b>	73					
<b>F.L. AMPS</b>	42/21		<b>RATING</b>	40C AMB-CONT					
<b>R.P.M.</b>	1175								
<b>HZ.</b>	60		<b>PH.</b>	3		<b>CLASS</b>	F		
<b>SER.F.</b>	1.15		<b>DES.</b>	A		<b>SL HZ</b>	1.3		
<b>NEMA NOM. EFF.</b>	91.7		<b>WK2</b>	4.9					
<b>DE</b>	6311		<b>ODE</b>	6309					
<b>MAG. CUR.</b>	22.6/11.3								
<b>INV TYPE</b>	PWM	<b>CHP</b>	60	<b>TO</b>	90	<b>T. CODE</b>	T3A		
<b>CT</b>	3	<b>TO</b>	60	<b>VT</b>	3	<b>TO</b>	60		
<b>CC</b>	010A		<b>SN</b>						
USABLE AT 50HZ 10HP 190/380V									
36/18A SF1.0									

**AC Induction Motor Performance Data**

Record # 85699

Typical performance - not guaranteed values

<b>Winding: 10WGY561-R012</b>		<b>Type: 1046M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	15	<b>Full Load Torque</b>	66.68 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	42/21	<b>Breakdown Torque</b>	213 LB-FT		
<b>R.P.M.</b>	1175	<b>Pull-up Torque</b>	93.1 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	114 LB-FT	
<b>NEMA Design Code</b>	<b>A KVA Code</b>	H	<b>Starting Current</b>	144 A	
<b>Service Factor (S.F.)</b>		1	<b>No-load Current</b>	12.4 A	
<b>NEMA Nom. Eff.</b>	91.7 <b>Power Factor</b>	73	<b>Line-line Res. @ 25°C</b>	0.502 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	43°C	
			<b>Locked-rotor Power Factor</b>	32.9	
			<b>Rotor inertia</b>	5.63 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 15 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Power Factor</b>	32	52	65	72	76	78
<b>Efficiency</b>	83	89.4	91.3	91.7	91.4	90.8
<b>Speed</b>	1196	1193	1189	1185	1181	1177
<b>Line amperes</b>	13.2	15.1	17.9	21.3	25.3	29.6

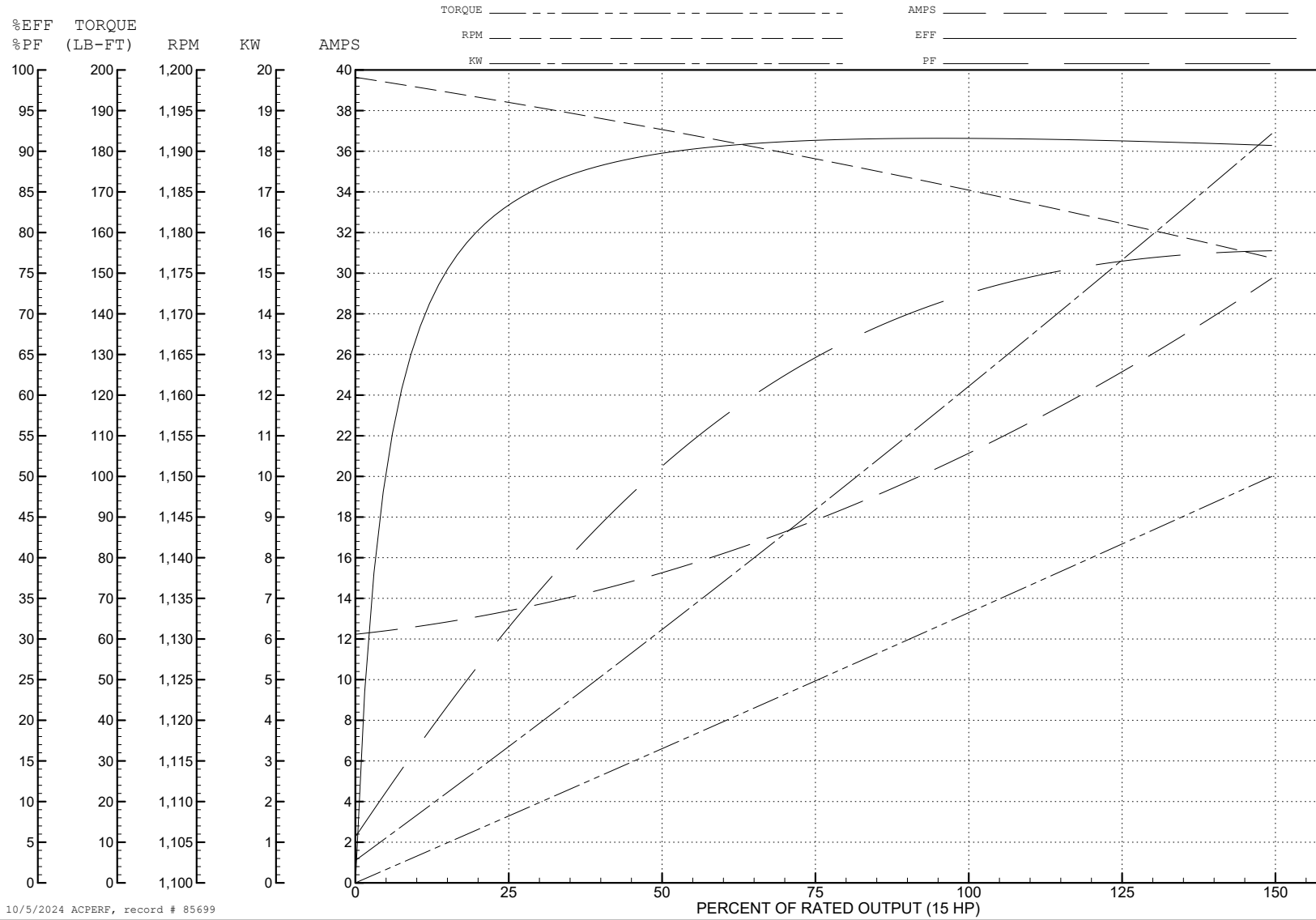
ABB Motors and Mechanical Inc.

WINDING # 10WGY561

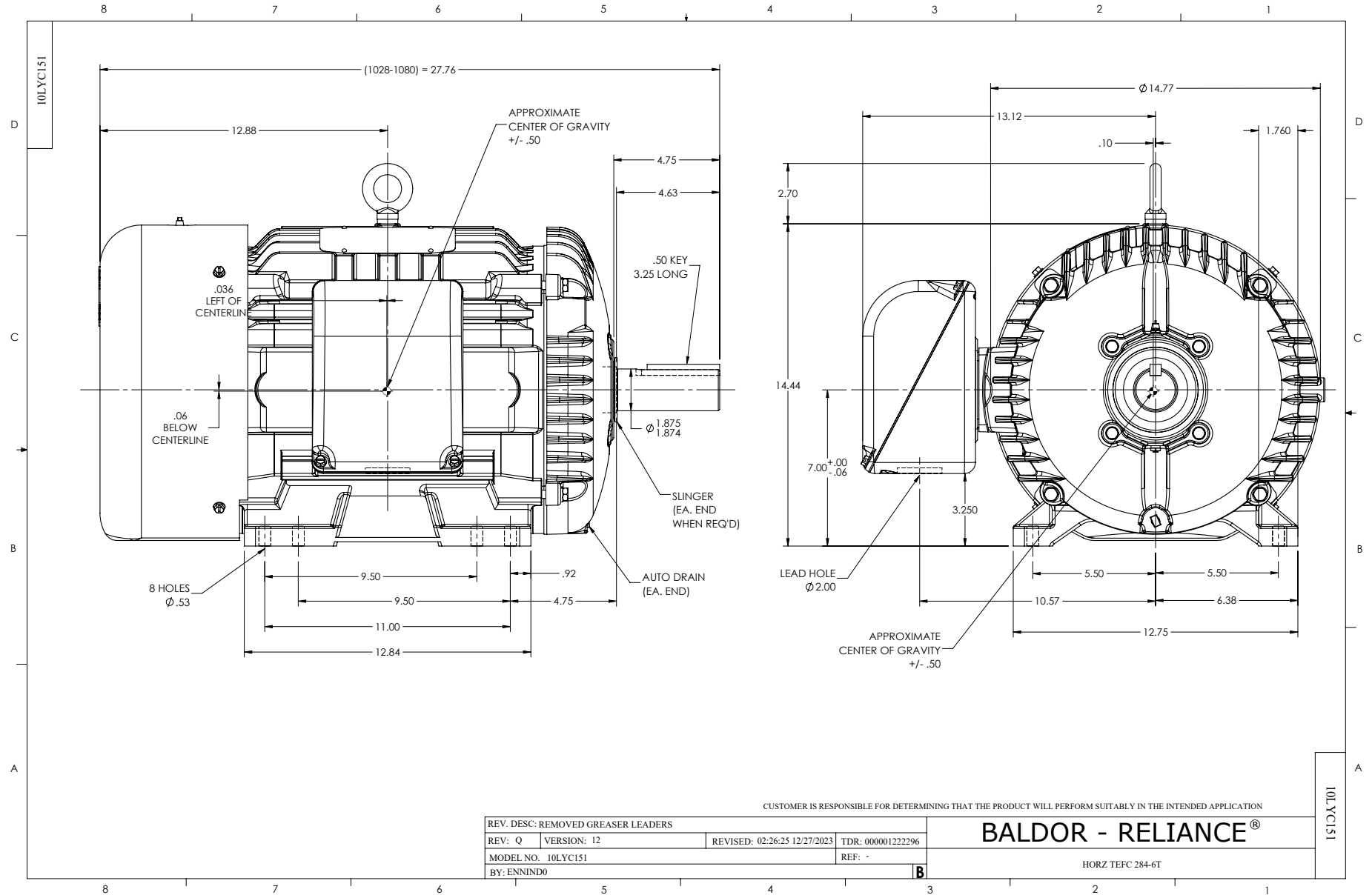
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1175 RPM 460 V 1046M

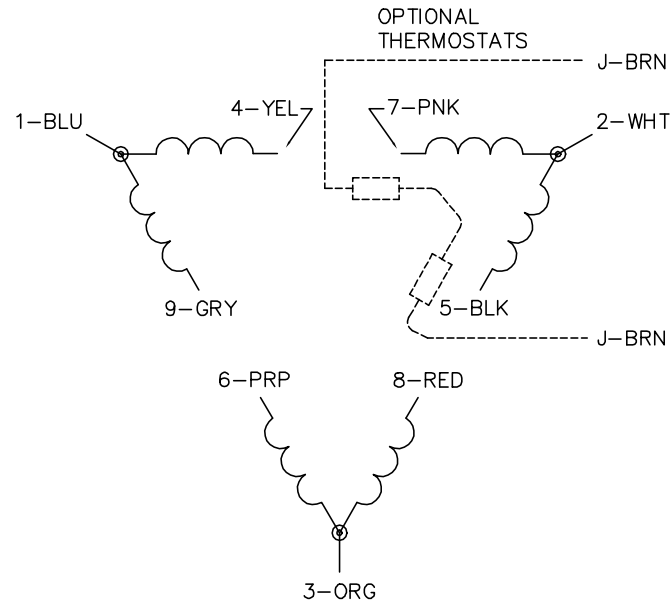
TORQUES (LB-FT): PO=213 PU=93.1 LR=114 LRA=144



10/5/2024 ACPERF, record # 85699



CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10: 25: 29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1