

ABB BALDOR RELIANCE III

Customer information packet

VXT3056T-5

5HP, 1160RPM, 3PH, 60HZ, 215TC, 0748M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR NEMA_PREMIUM NEMA PREMIUM CSA EEV CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	5.800 A @ 575.0 V
Design Code	A
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

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY127
Layout	07LYL289
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	06
Leads	3#14
Proprietary	False
Created date	05-20-2021

High Voltage Full Load Amps	5.8 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.20 IN
Power Factor	72
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1160 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

NP4224L											
CAT.NO.	VXT3056T-5							I.P.	54		
SPEC.	07-0000-1044							ENCL	TEFC		
FRAME	215TC	H.P.		5				T. CODE	T3C		
VOLTS	575				P.F.	72					
F.L. AMPS	5.8				RATING		40C AMB-CONT				
R.P.M.	1160										
HZ.	60	PH.		3	CLASS		F				
SER.F.	1.15	DES.		A	SL HZ		2				
NEMA NOM. EFF.	90.2				WK2		1.19				
DE	6307	ODE		6206							
MAG. CUR.	3										
INV TYPE	PWM	CHP	60	TO		90	INV TEMP CODE			T3C	
CT	6	TO	60	VT		3	TO	60			
CC	010A	SN									

AC Induction Motor Performance Data

Record # 47125

Typical performance - not guaranteed values

Winding: 07WGY127-R005			Type: 0748M		Enclosure: TEFC			
Nameplate Data			575 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		5	Full Load Torque		22.5 LB-FT			
Volts		575	Start Configuration		direct on line			
Full Load Amps		5.8	Breakdown Torque		81 LB-FT			
R.P.M.		1160	Pull-up Torque		49.1 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		54.5 LB-FT		
NEMA Design Code		A	KVA Code	K	Starting Current		43.9 A	
Service Factor (S.F.)		1.15	No-load Current		3.06 A			
NEMA Nom. Eff.		90.2	Power Factor		72	Line-line Res. @ 25°C		2.67 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		47°C	
S.F. Amps					Temp. Rise @ S.F. Load		58°C	
					Rotor inertia		1.19 LB-FT2	

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	64	72	74	76	73
Efficiency	85.3	90.3	90.7	90.3	89.2	87.8	89.6
Speed	1191	1183	1174	1165	1156	1142	1160
Line amperes	3.33	3.95	4.83	5.83	7.05	8.42	6.56

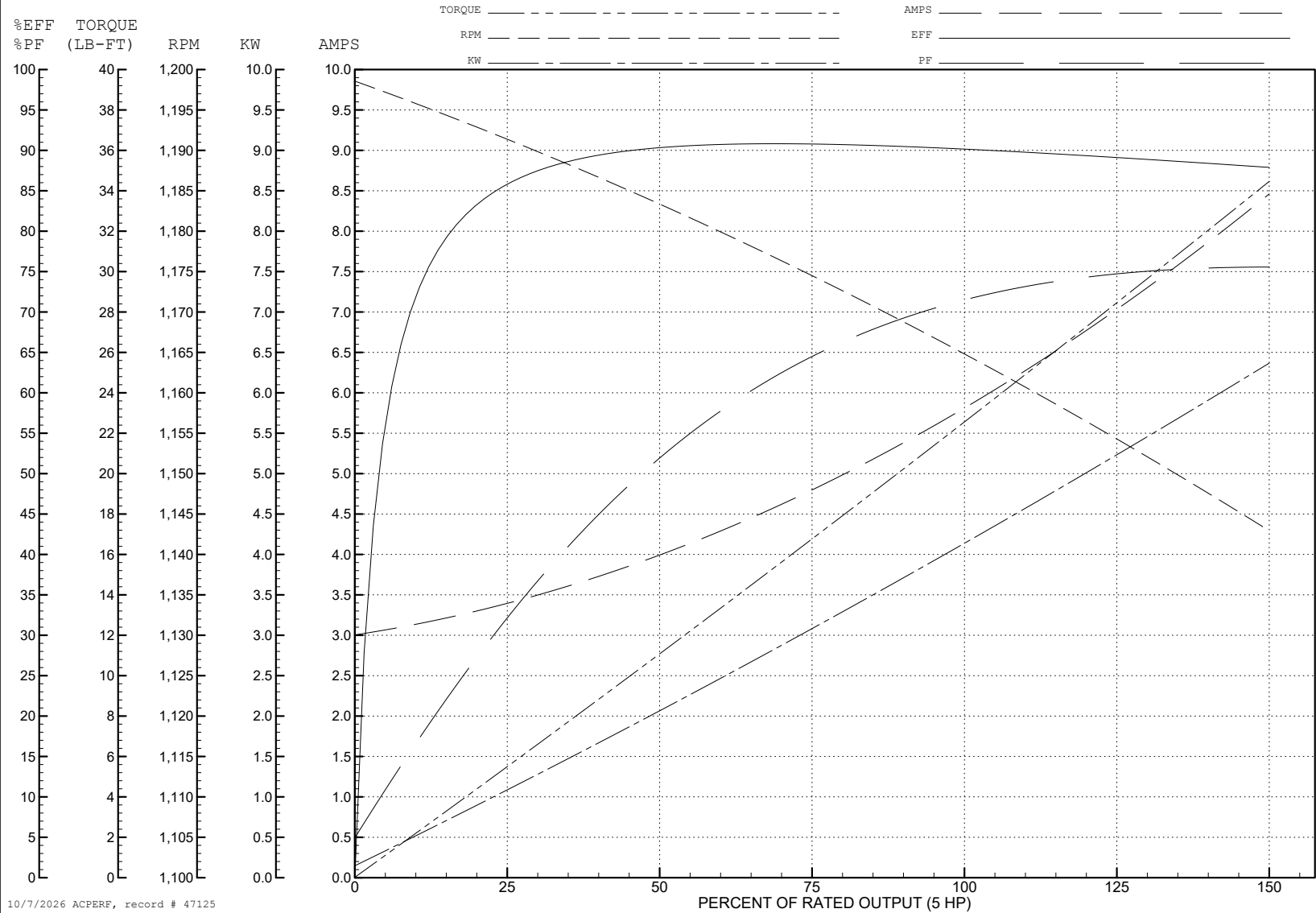
ABB Motors and Mechanical Inc.

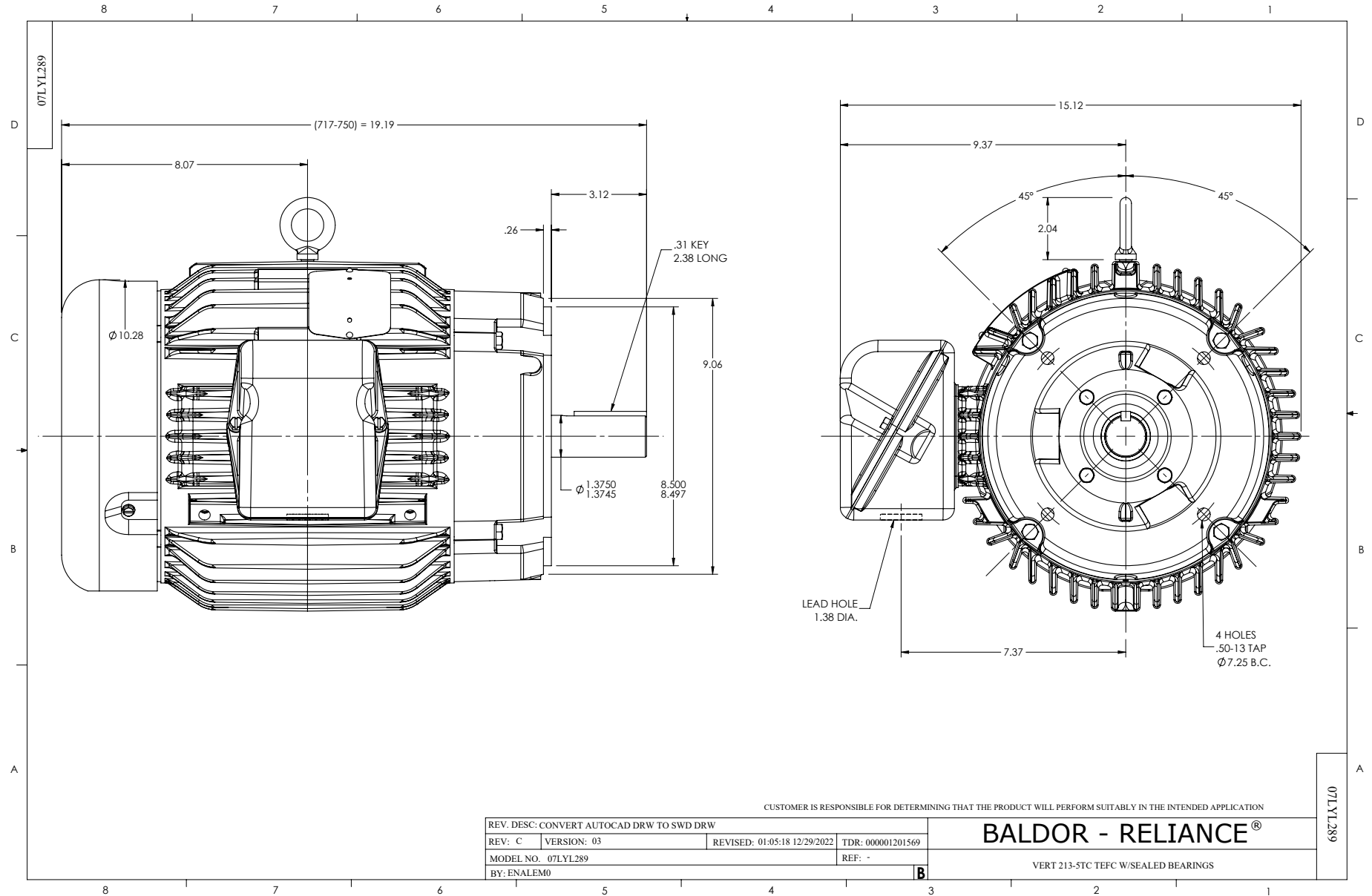
WINDING # 07WGY127

Typical performance - not guaranteed values.

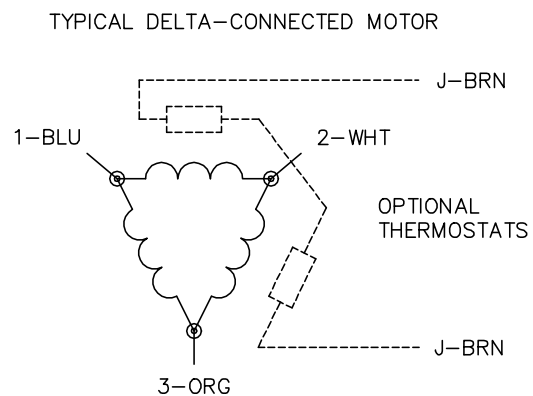
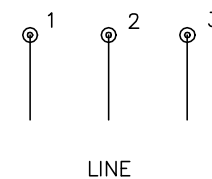
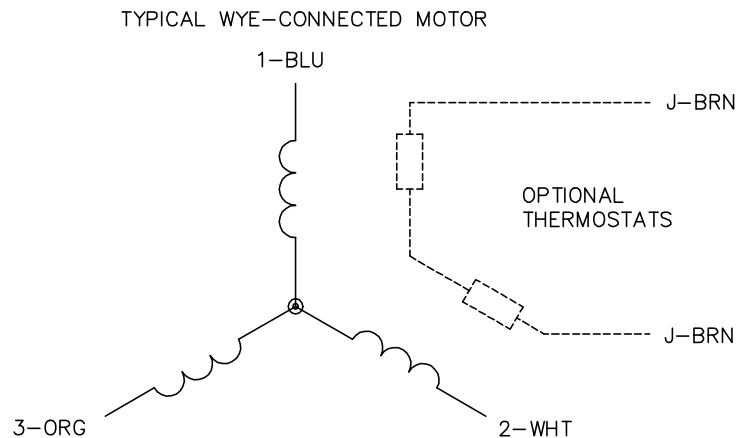
5 HP 3 PH 60 HZ 1160 RPM 575 V 0748M

TORQUES (LB-FT): PO=81 PU=49.1 LR=54.5 LRA=43.9





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: —


BALDOR - RELIANCE®

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

SH 1 of 1