

ABB BALDOR RELIANCE III

Customer information packet

VXT3036T-5

3HP, 1165RPM, 3PH, 60HZ, 213TC, 0736M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	213TC
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	3.000 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	3
Current @ Voltage	3.600 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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.	07WGY746
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	3.6 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	0736M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.20 IN
Power Factor	70
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1165 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.	VXT3036T-5						I.P.	54				
SPEC.	07-0000-1047						ENCL	TEFC				
FRAME	213TC	H.P.		3		T. CODE		T3C				
VOLTS	575			P.F.		70						
F.L. AMPS	3.6			RATING		40C AMB-CONT						
R.P.M.	1165											
HZ.	60		PH.		3		CLASS		F			
SER.F.	1.00		DES.		B		SL HZ		1.5			
NEMA NOM. EFF.	89.5			WK2		0.895						
DE	6307			ODE		6206						
MAG. CUR.	2.1											
INV TYPE	PWM	CHP	60		TO		90		INV TEMP CODE		T3C	
CT	3	TO	60		VT		3		TO		60	
CC	010A		SN									
1.15 SF ON SINE WAVE												

AC Induction Motor Performance Data

Record # 88476

Typical performance - not guaranteed values

Winding: 07WGY746-R001			Type: 0736M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		3	Full Load Torque		13.5 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		3.6	Breakdown Torque		35.3 LB-FT	
R.P.M.		1165	Pull-up Torque		29.69 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	11.7 LB-FT	
NEMA Design Code	B	KVA Code	K	Starting Current	15.2 A	
Service Factor (S.F.)		1.15	No-load Current		2.1 A	
NEMA Nom. Eff.	89.5	Power Factor	70	Line-line Res. @ 25°C	4.15 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		28°C	
S.F. Amps			Temp. Rise @ S.F. Load		33°C	
			Locked-rotor Power Factor		22.9	
			Rotor inertia		0.895 lb-ft²	

Load Characteristics 575 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	51	64	71	75	77	73
Efficiency	80.5	87.3	89.1	89.5	89.2	88.4	89.3
Speed	1193	1186	1178	1170	1162	1152	1165
Line amperes	2.22	2.53	2.98	3.53	4.18	4.92	3.92

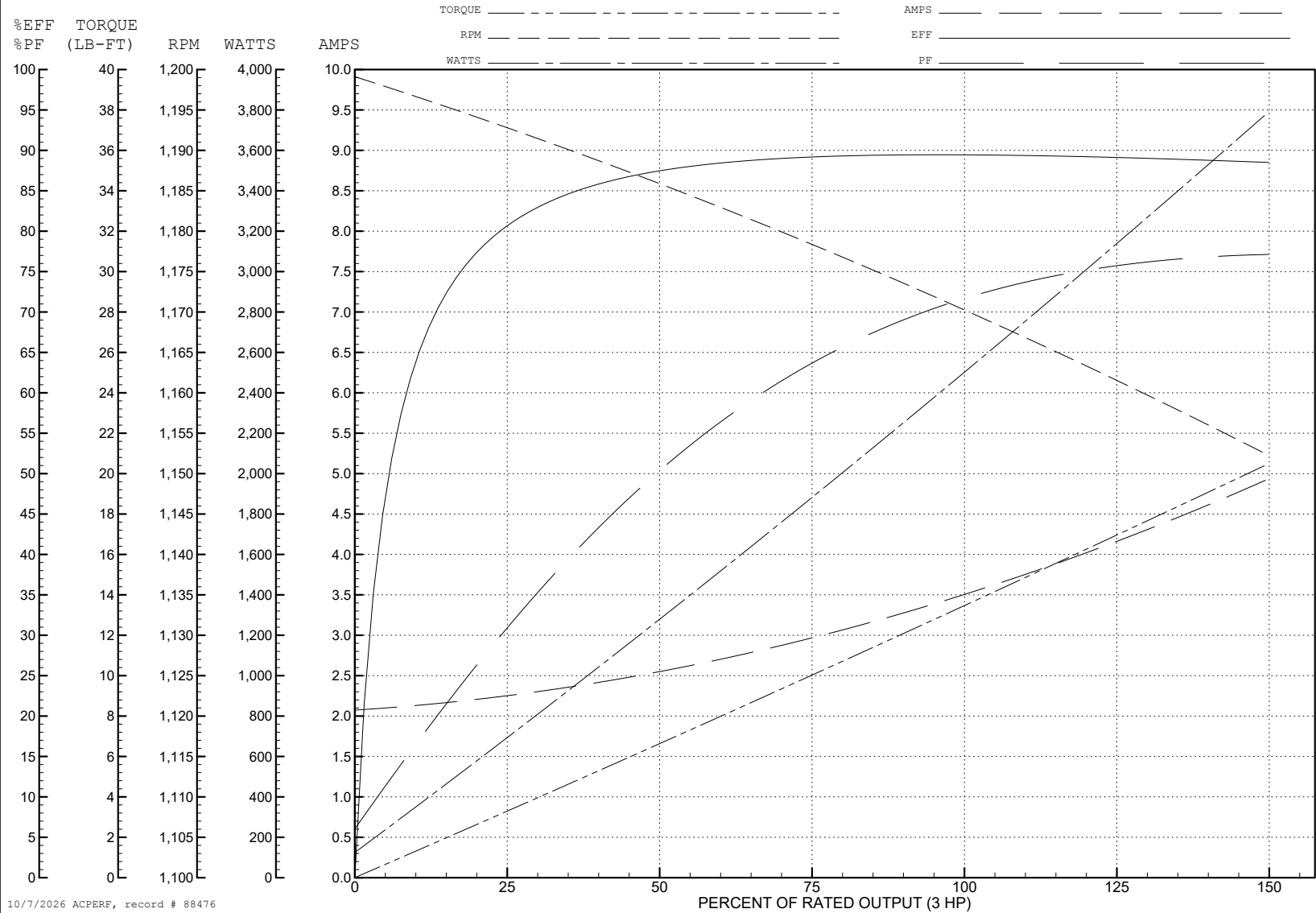
ABB Motors and Mechanical Inc.

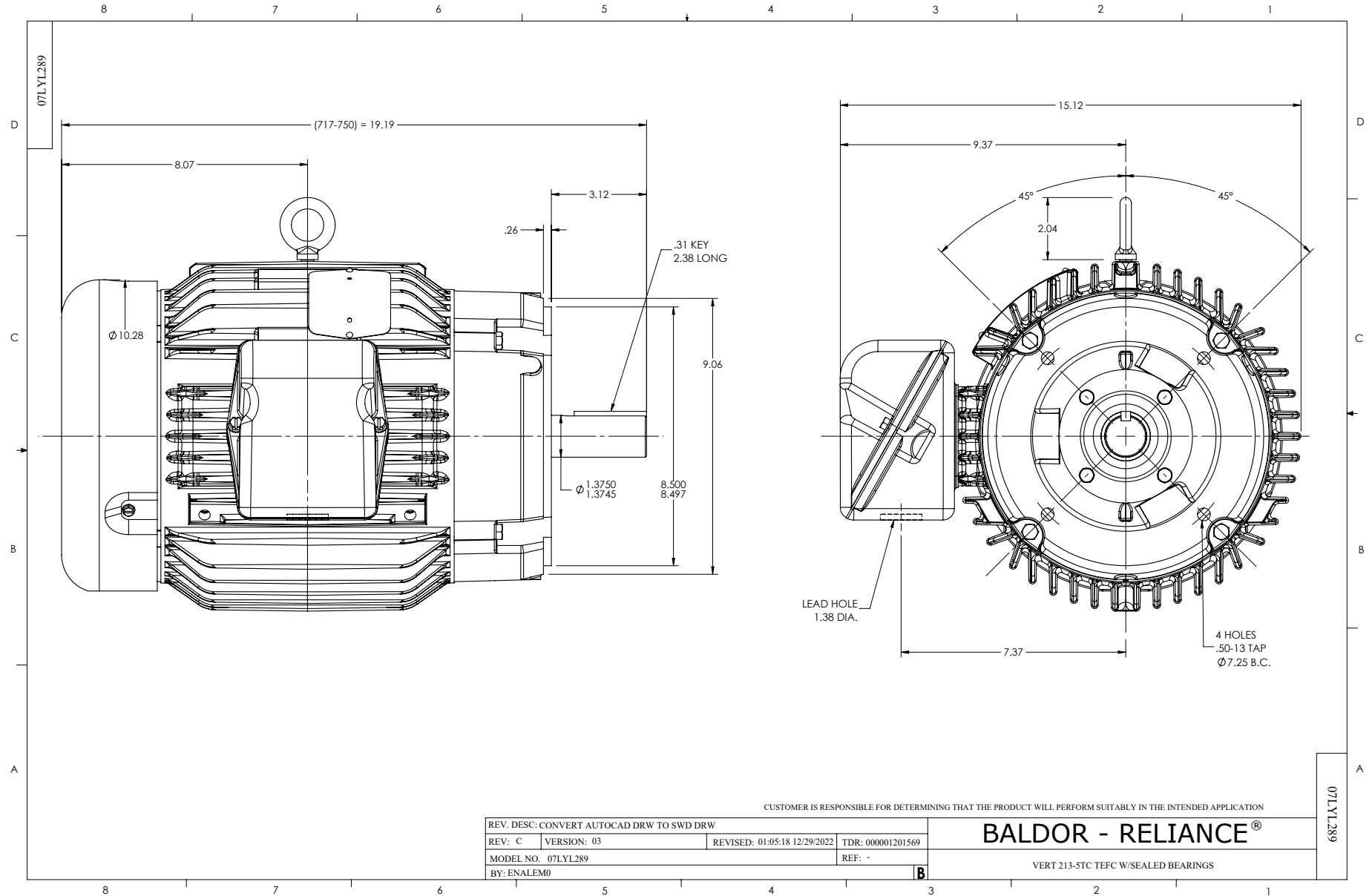
WINDING # 07WGY746

Typical performance - not guaranteed values.

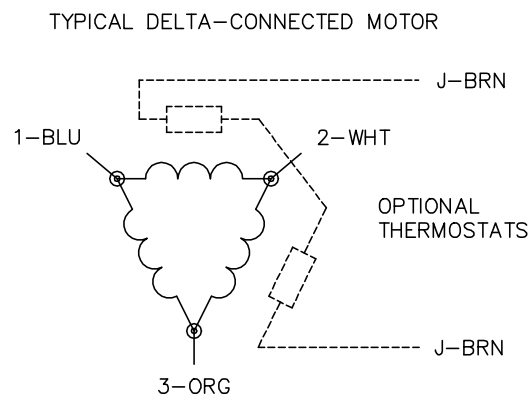
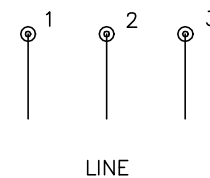
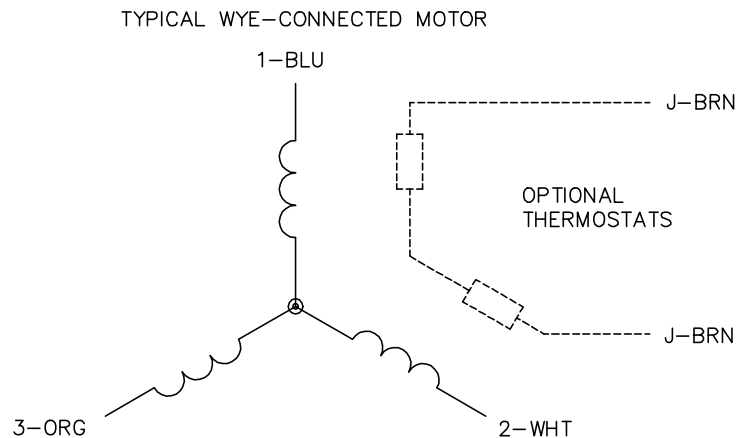
3 HP 3 PH 60 HZ 1165 RPM 575 V 0736M

TORQUES (LB-FT): PO=35.3 PU=29.69 LR=11.7 LRA=15.2





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

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