

ABB BALDOR RELIANCE III

Customer information packet

VXT3102T-5

10HP, 3525RPM, 3PH, 60HZ, 215TC, 0738M, TEFC, F

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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	9.500 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
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.	07WGW382
Layout	07LYL289
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	06-01-2021

High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.20 IN
Power Factor	93
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	3525 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.	VXT3102T-5						I.P.	54			
SPEC.	07-0000-1059						ENCL	TEFC			
FRAME	215TC	H.P.	10				T. CODE	T3C			
VOLTS	575		P.F.		93						
F.L. AMPS	9.5		RATING		40C AMB-CONT						
R.P.M.	3525										
HZ.	60	PH.	3	CLASS		F					
SER.F.	1.15	DES.	A	SL HZ		1.4					
NEMA NOM. EFF.	91	WK2		0.35							
DE	6307	ODE		6206							
MAG. CUR.	3.4										
INV TYPE	PWM	CHP	60	TO		90	INV TEMP CODE		T3C		
CT	6	TO	60	VT		6	TO		60		
CC	010A	SN									

AC Induction Motor Performance Data

Record # 88596

Typical performance - not guaranteed values

Winding: 07WGW382-R001			Type: 0738M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		10	Full Load Torque		14.9076 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		9.4	Breakdown Torque		63.1322 LB-FT		
R.P.M.		3525	Pull-up Torque		29.87 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		28.4426 LB-FT	
NEMA Design Code		A	KVA Code	L	Starting Current		76.2067 A
Service Factor (S.F.)		1.15		No-load Current		3.7057 A	
NEMA Nom. Eff.		91	Power Factor	88	Line-line Res. @ 25°C		1.26 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		37°C	
S.F. Amps				Temp. Rise @ S.F. Load		40°C	
				Locked-rotor Power Factor		34.7468	
				Rotor inertia		0.347 lb-ft²	

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53.6451	74.6116	83.8606	88.2013	89.6555	90.3469	89
Efficiency	79.2816	86.8452	89.1634	89.9399	90.053	90.0353	90
Speed	3580.992	3564.432	3547.332	3529.512	3518.532	3510.971	3523
Line amperes	4.4051	5.791	7.5249	9.4578	10.6732	11.5136	10.2

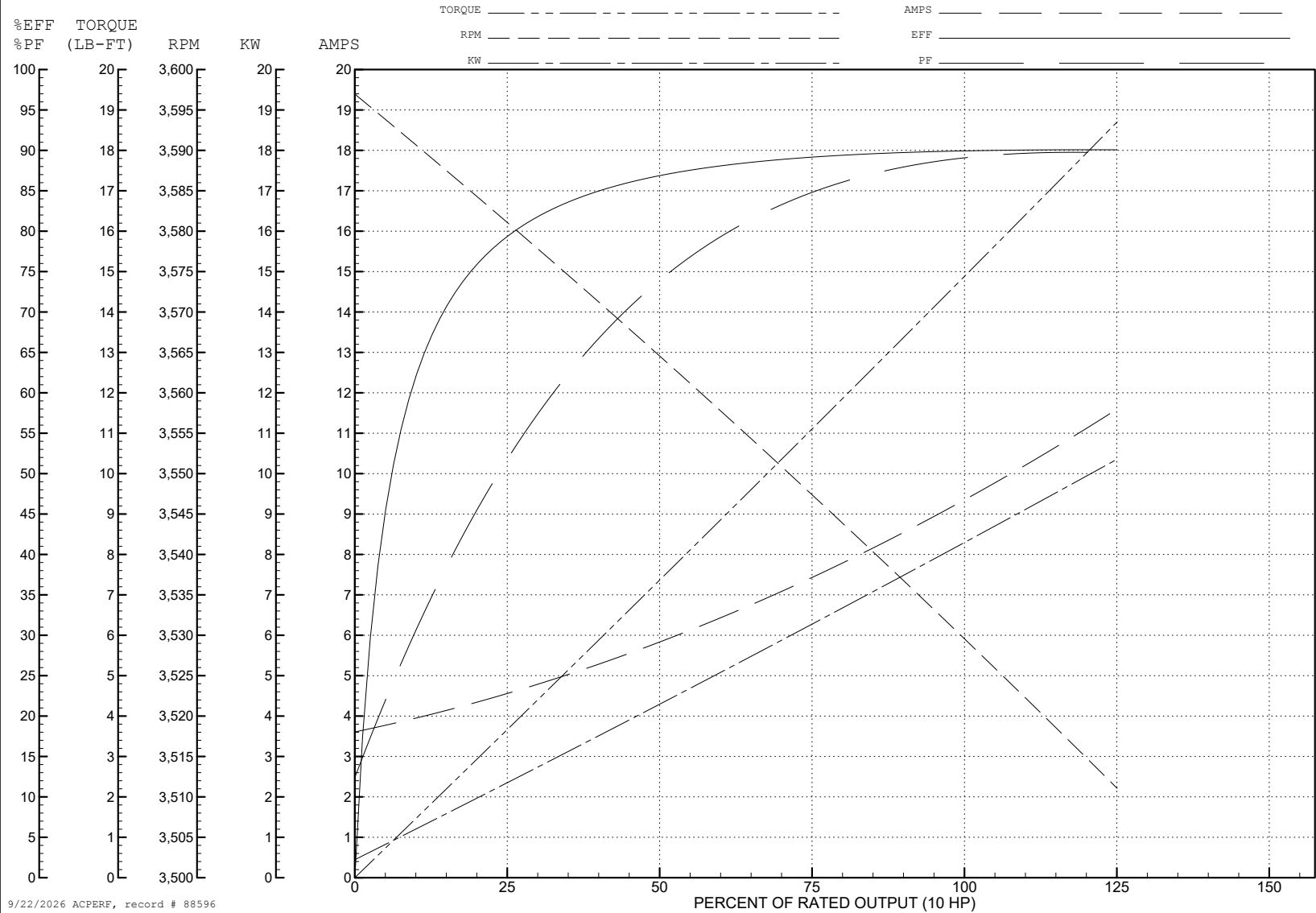
ABB Motors and Mechanical Inc.

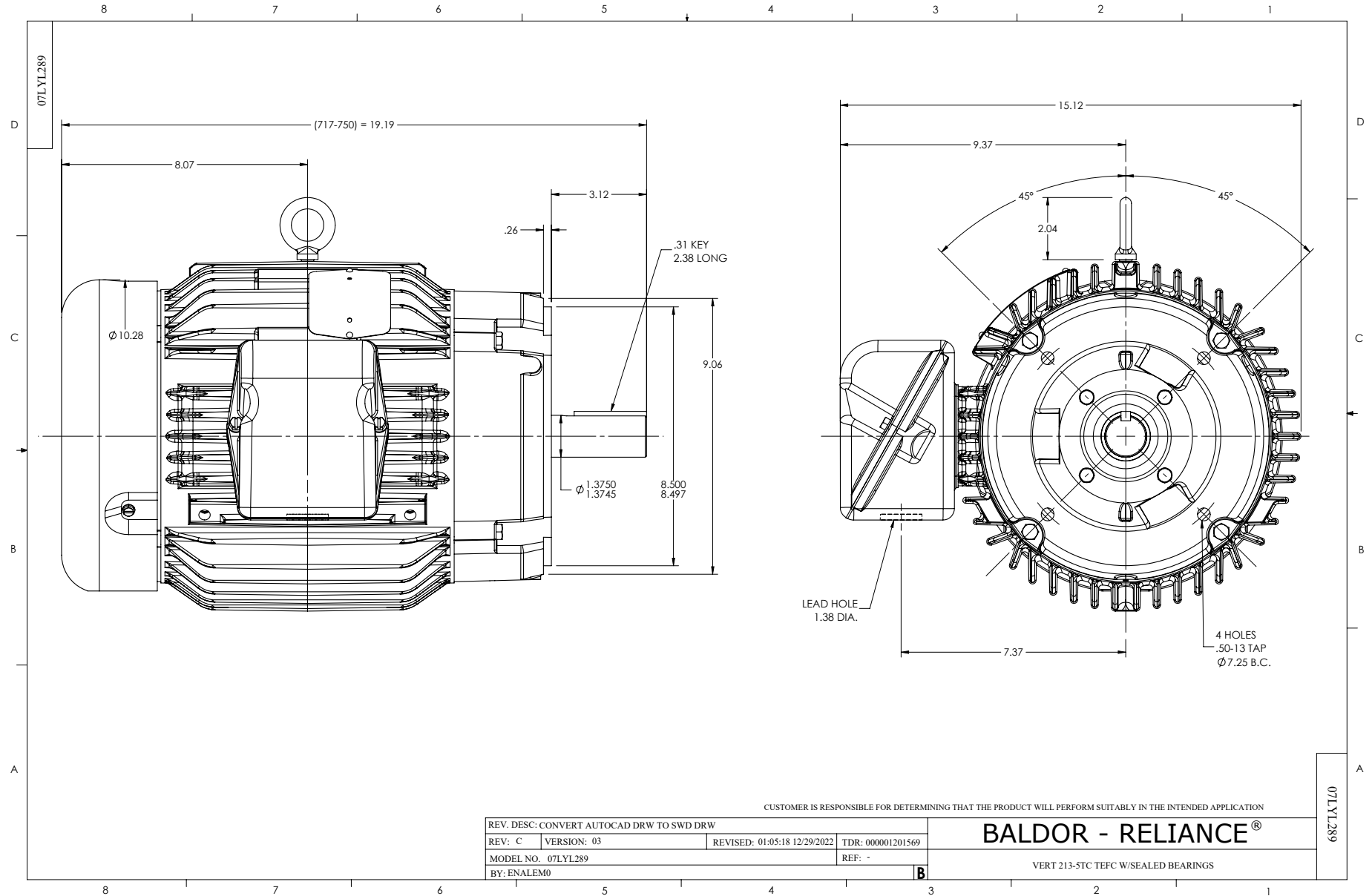
WINDING # 07WGW382

Typical performance - not guaranteed values.

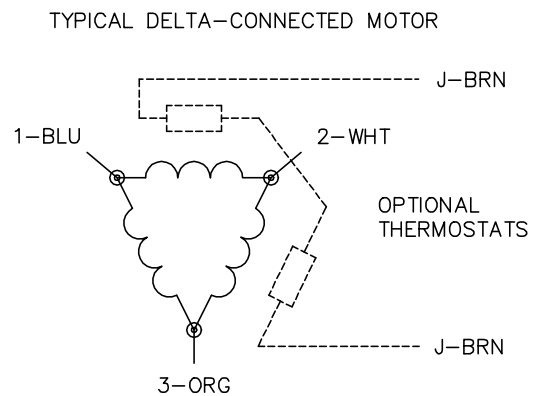
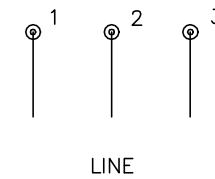
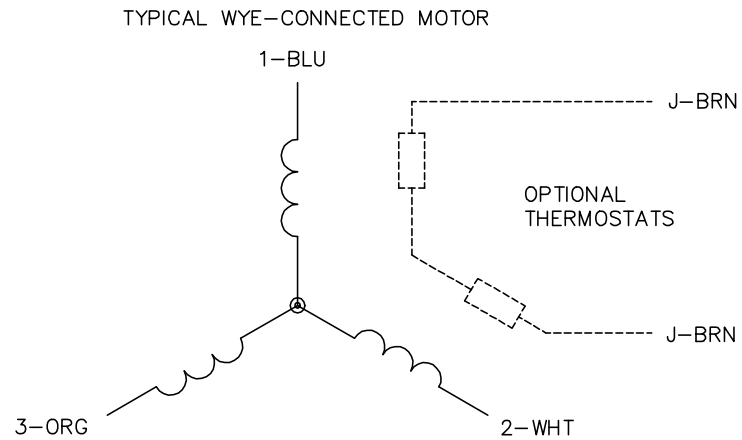
10 HP 3 PH 60 HZ 3525 RPM 575 V 0738M

TORQUES (LB-FT) : PO=63.1322 PU=29.87 LR=28.4426 LRA=76.2067





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