

ABB BALDOR RELIANCE III

Customer information packet

VXT30156T-5

1.5HP, 1170RPM, 3PH, 60HZ, 182TC, 0630M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	182TC
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	1.500 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	2.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
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.	06WGX237
Layout	06LYH799
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	06
Leads	3#16
Proprietary	False
Created date	05-19-2021

High Voltage Full Load Amps	2.0 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	0630M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.98 IN
Power Factor	65
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1170 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.	VXT30156T-5					I.P.	54		
SPEC.	06-0000-0940					ENCL	TEFC		
FRAME	182TC	H.P.	1.5		T. CODE	T3C			
VOLTS	575		P.F.	65					
F.L. AMPS	2		RATING	40C AMB-CONT					
R.P.M.	1170								
HZ.	60	PH.	3	CLASS	F				
SER.F.	1.15	DES.	B	SL HZ	1.5				
NEMA NOM. EFF.	87.5	WK2	0.282						
DE	6206	ODE	6205						
MAG. CUR.	1.3								
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 # 47370

Typical performance - not guaranteed values

Winding: 06WGX237-R004				Type: 0630M		Enclosure: TEFC	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		1.5		Full Load Torque		6.77 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		2		Breakdown Torque		23.8 LB-FT	
R.P.M.		1170		Pull-up Torque		12.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		15.7 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		12.9 A
Service Factor (S.F.)		1.15		No-load Current		1.29 A	
NEMA Nom. Eff.		87.5	Power Factor	65	Line-line Res. @ 25°C		11.1 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		26°C	
S.F. Amps				Temp. Rise @ S.F. Load		31°C	
				Locked-rotor Power Factor		30.5	
				Rotor inertia		0.282 LB-FT2	

Load Characteristics 575 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	45	56	65	70	73	68
Efficiency	76.2	84.8	86.9	87.5	87.1	85.8	87.3
Speed	1194	1187	1179	1172	1163	1153	1167
Line amperes	1.35	1.51	1.74	2	2.33	2.7	2.2

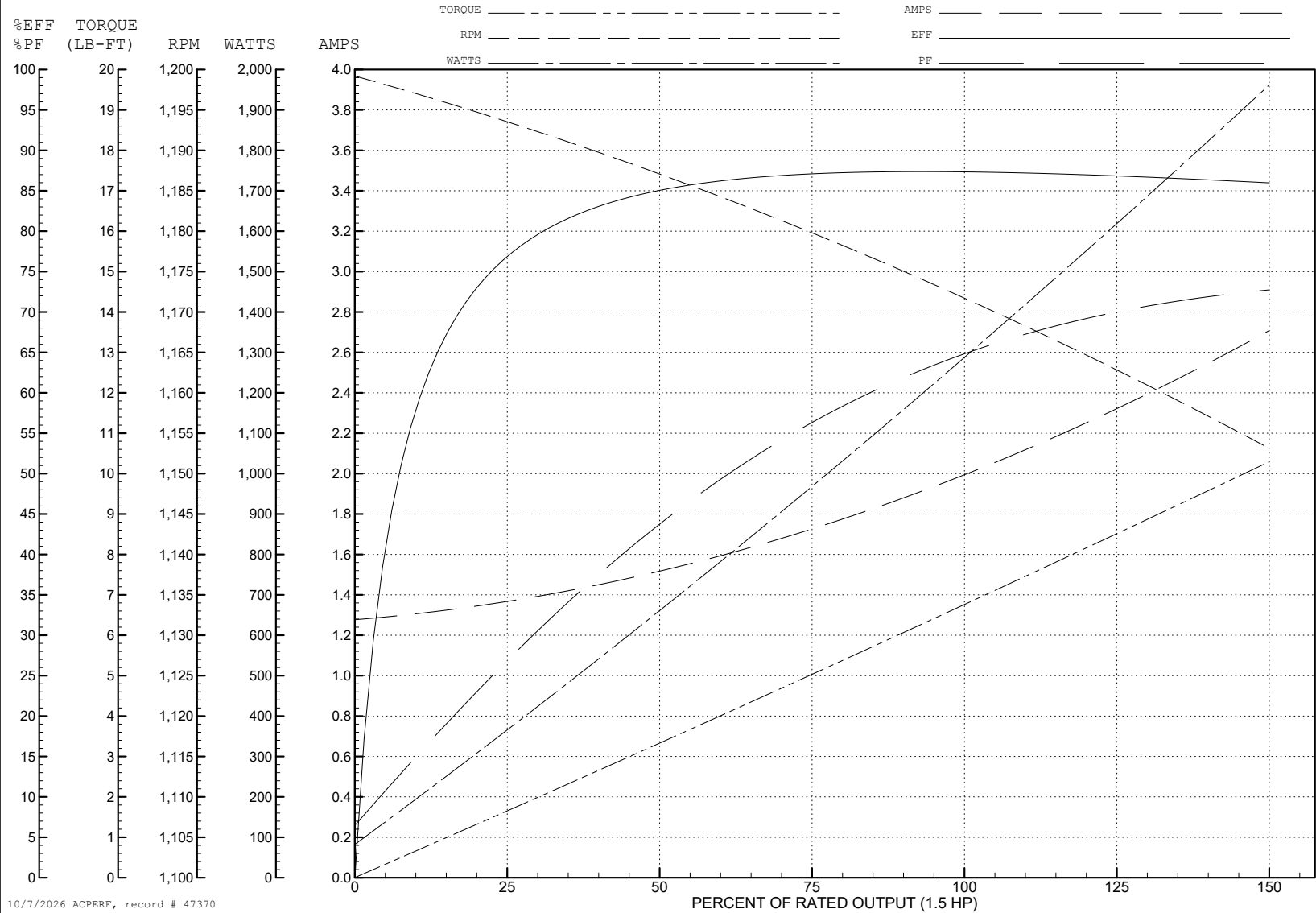
ABB Motors and Mechanical Inc.

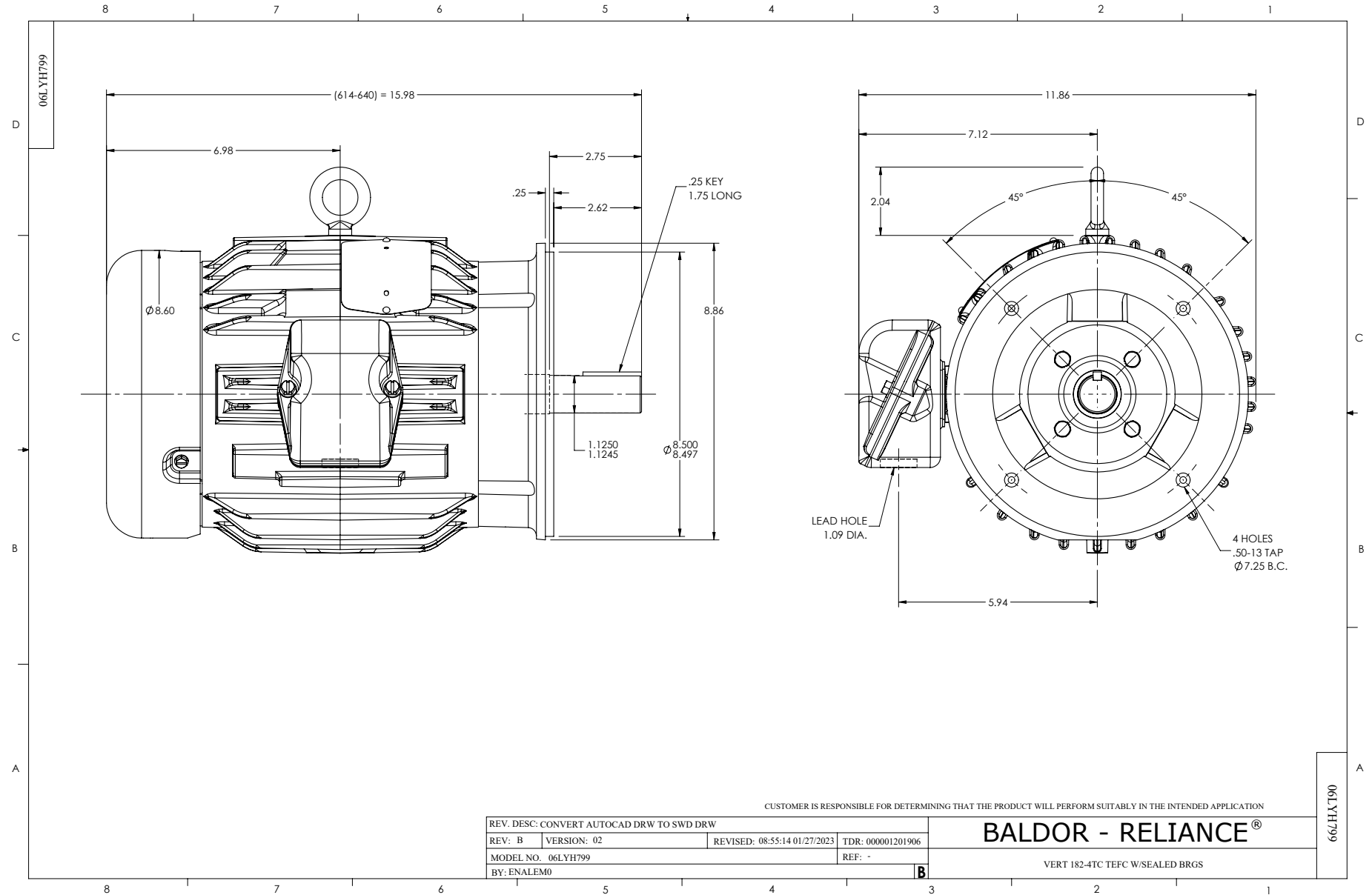
WINDING # 06WGX237

Typical performance - not guaranteed values.

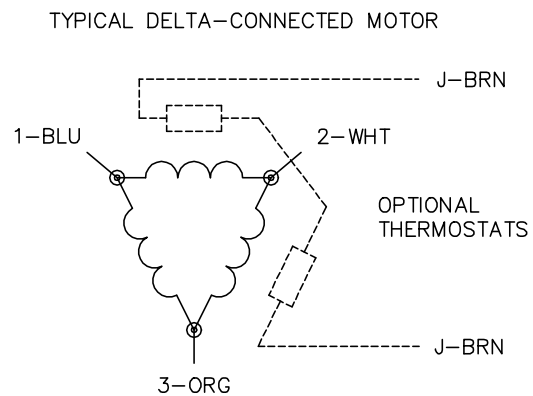
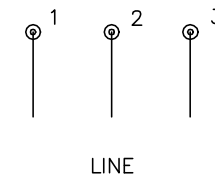
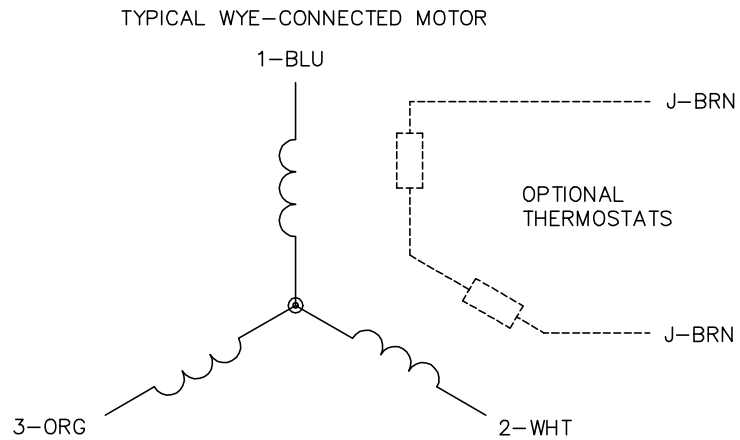
1.5 HP 3 PH 60 HZ 1170 RPM 575 V 0630M

TORQUES (LB-FT): PO=23.8 PU=12.4 LR=15.7 LRA=12.9





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