ABB BALDOR RELIANCE

Customer information packet

VXT3074T-5

7.5HP, 1760RPM, 3PH, 60HZ, 213TC, 0748M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	7.400 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
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.	07WGR900
Layout	07LYL289
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	06-02-2021

High Voltage Full Load Amps	7.4 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	4
Overall Length	19.20 IN
Power Factor	85
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	1760 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.	VXT3074T-5					**I.P.**	54		
SPEC.	07-0000-1065					**ENCL**	TEFC		
FRAME	213TC	**H.P.**	7.5			**T. CODE**	T3C		
VOLTS	575			**P.F.**	85				
F.L. AMPS	7.4			**RATING**	40C AMB-CONT				
R.P.M.	1760								
HZ.	60	**PH.**	3	**CLASS**	F				
SER.F.	1.15	**DES.**	A	**SL HZ**	1.3				
NEMA NOM. EFF.	91.7	**WK2**	1.18						
DE	6307	**ODE**	6206						
MAG. CUR.	3.2								
INV TYPE	PWM	**CHP**	60	**TO**	90	**INV TEMP CODE**	T3C		
CT	3	**TO**	60	**VT**	3	**TO**	60		
CC	010A	**SN**							
	SFA 8.9								

AC Induction Motor Performance Data
Record # 88602
Typical performance - not guaranteed values

Winding: 07WGR900-R001	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			7.5
Volts			575
Full Load Amps			7.4
R.P.M.			1760
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	K
Service Factor (S.F.)			1.25
NEMA Nom. Eff.	91.7	**Power Factor**	85
Rating - Duty			40C AMB-CONT
S.F. Amps			8.9

575 V, 60 Hz: Single Voltage Motor	
Full Load Torque	22.2079 LB-FT
Start Configuration	direct on line
Breakdown Torque	79.0744 LB-FT
Pull-up Torque	32.25 LB-FT
Locked-rotor Torque	42.7086 LB-FT
Starting Current	47.9434 A
No-load Current	3.5002 A
Line-line Res. @ 25ºC	2.03 Ω
Temp. Rise @ Rated Load	25°C
Temp. Rise @ S.F. Load	33°C
Locked-rotor Power Factor	38.184
Rotor inertia	1.18 lb-ft²

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42.346	65.1467	76.9855	82.9232	86.0707	87.6743	86
Efficiency	85.8706	90.6778	91.8518	91.9941	91.6851	91.1125	91.7
Speed	1793.799	1787.859	1781.649	1775.259	1768.419	1761.129	1768
Line amperes	3.8767	4.7686	5.9848	7.3694	8.9069	10.5552	8.91

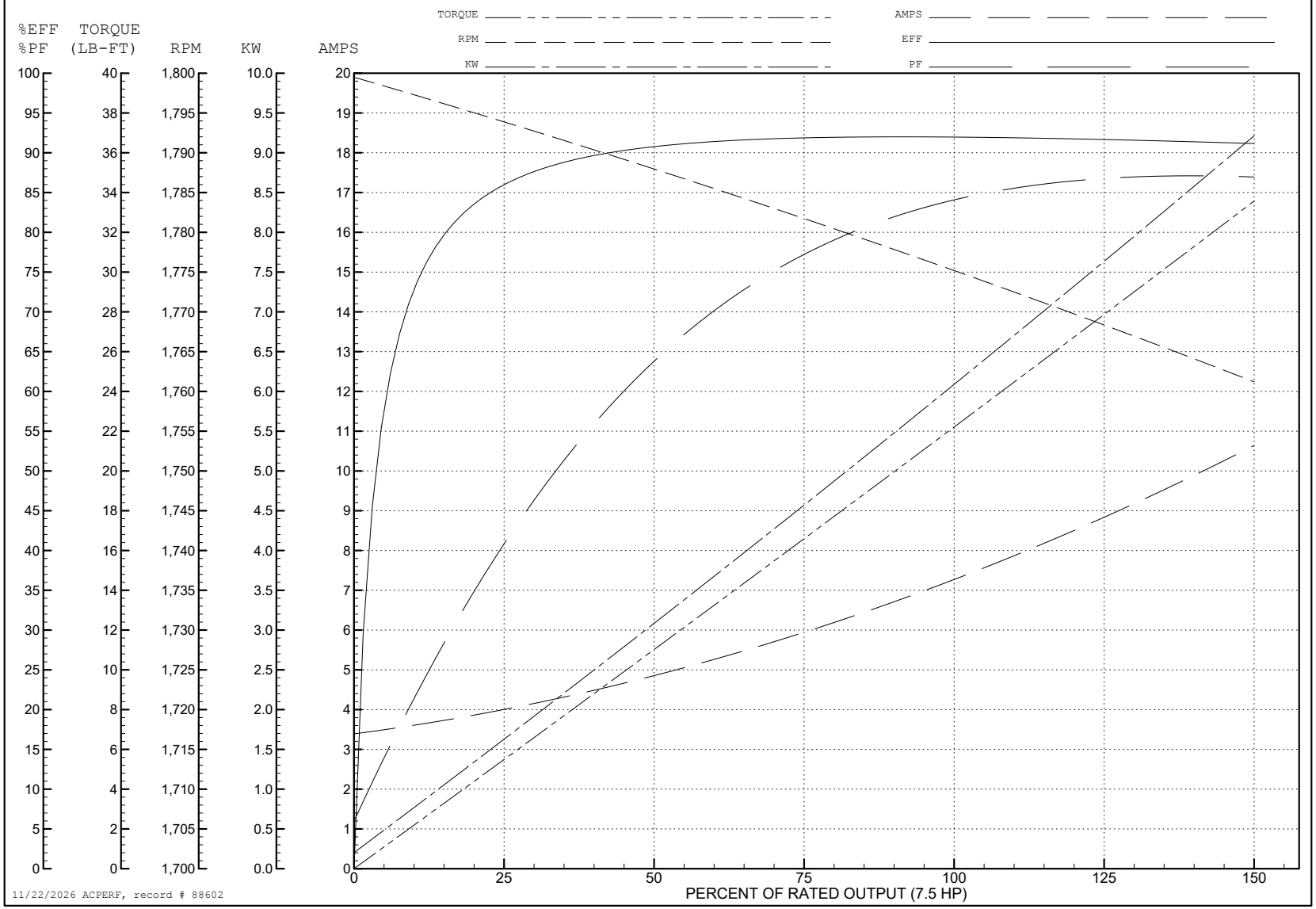
ABB Motors and Mechanical Inc.

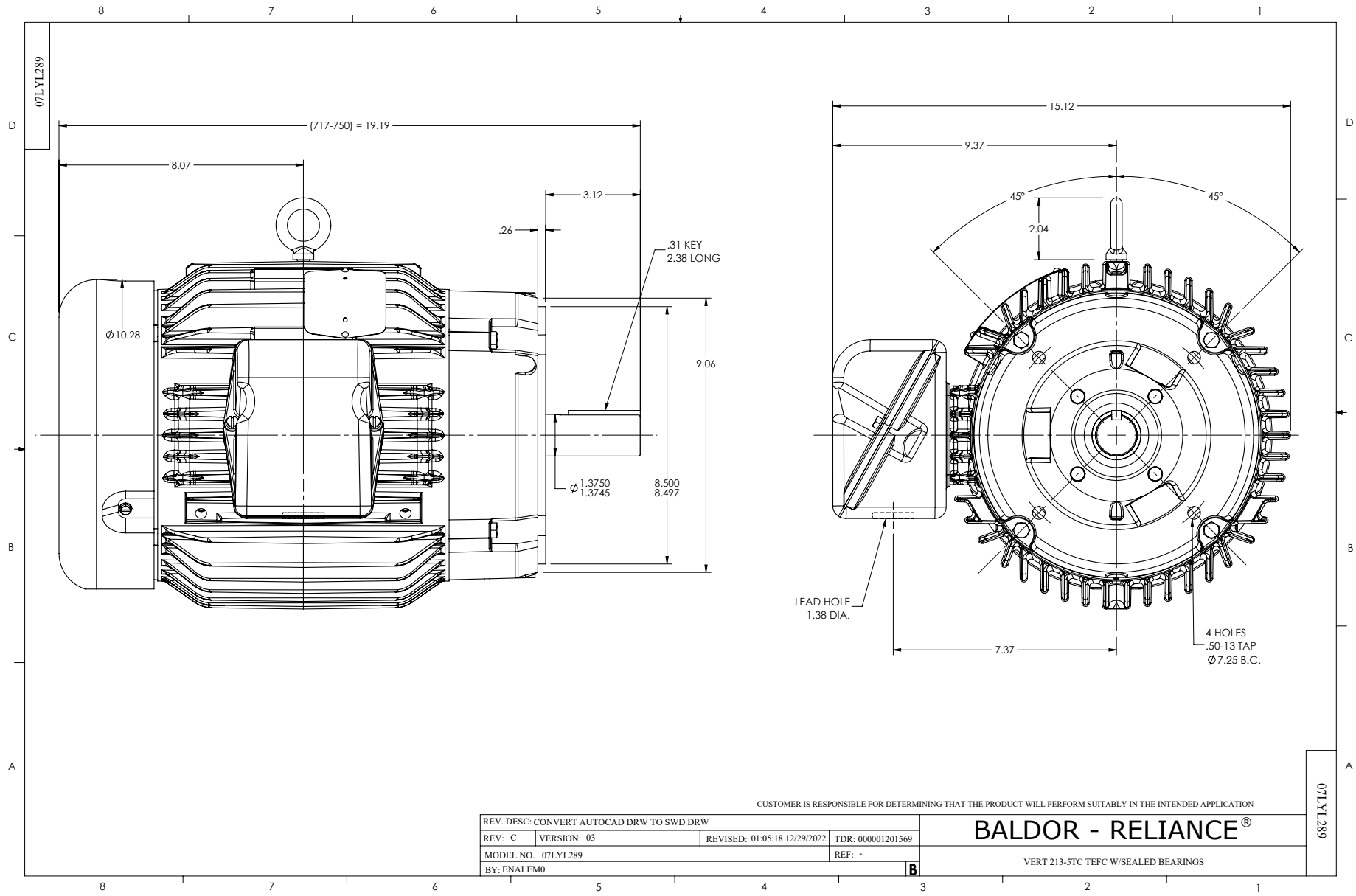
WINDING # 07WGR900

7.5 HP 3 PH 60 HZ 1760 RPM 575 V 0748M

Typical performance - not guaranteed values.

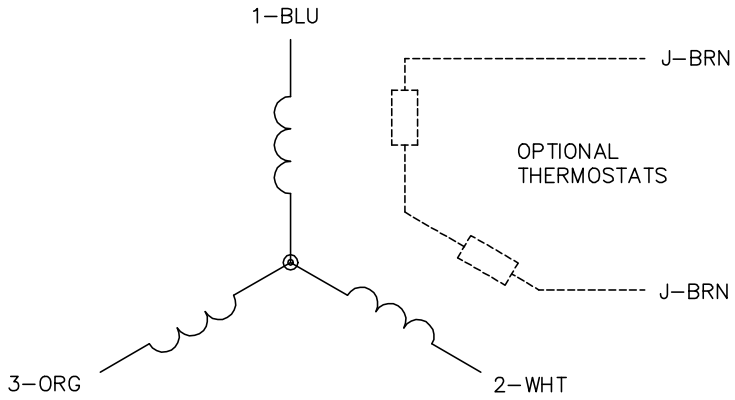
TORQUES(LB-FT): PO=79.0744 PU=32.25 LR=42.7086 LRA=47.9434

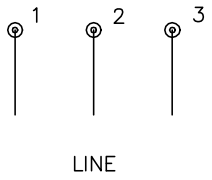



07LYL289
(717-750) = 19.19
8.07
3.12
.26
.31 KEY
2.38 LONG
Ø10.28
9.06
Ø 1.3750
1.3745
8.500
8.497
15.12
9.37
45°
45°
2.04
LEAD HOLE
1.38 DIA.
7.37
4 HOLES
.50-13 TAP
Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: C
VERSION: 03
REVISED: 01:05:18 12/29/2022
TDR: 000001201569
MODEL NO. 07LYL289
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 213-5TC TEFC W/SEALED BEARINGS
07LYL289

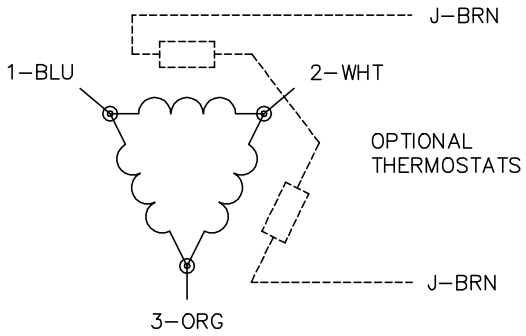
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

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