

**BALDOR • RELIANCE**

---

# Customer information packet

## VXT3074T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 0738M, TEFC

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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CCSA US NEMA_PREMIUM NEMA PREMIUM CSA EEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	3
Current @ Voltage	19.000 A @ 230.0 V 20.200 A @ 208.0 V 9.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %

## Part detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGW644
Layout	07LYL289
Eff. date	06-28-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-10-2020

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
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	4
Overall Length	19.20 IN
Power Factor	81
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	1770 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**

<b>NP4163L</b>										
<b>CAT.NO.</b>	VXT3074T					<b>I.P.</b>	54			
<b>SPEC.</b>	07-0000-0913					<b>ENCL</b>	TEFC			
<b>FRAME</b>	213TC		<b>H.P.</b>	7.5						
<b>VOLTS</b>	208-230/460		<b>P.F.</b>	81						
<b>F.L. AMPS</b>	20.2-19/9.5		<b>RATING</b>	40C AMB-CONT						
<b>R.P.M.</b>	1770									
<b>HZ.</b>	60		<b>PH.</b>	3		<b>CLASS</b>	F			
<b>SER.F.</b>	1.15		<b>DES.</b>	A		<b>SL HZ</b>	0.89			
<b>NEMA NOM. EFF.</b>	91.7		<b>WK2</b>	0.934						
<b>DE</b>	6307		<b>ODE</b>	6206						
<b>MAG. CUR.</b>	5.14									
<b>INV TYPE</b>	PWM	<b>CHP</b>	60	<b>TO</b>	90	<b>T. CODE</b>	T3C			
<b>CT</b>	3	<b>TO</b>	60	<b>VT</b>	3	<b>TO</b>	60			
<b>CC</b>	010A		<b>SN</b>							
USABLE AT 50 HZ 5HP 190/380V										
17.2/8.6A										

**AC Induction Motor Performance Data**

Record # 57072

Typical performance - not guaranteed values

<b>Winding: 07WGX790-REV-</b>		<b>Type: 0735M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	7.5	<b>Full Load Torque</b>	22.23 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	19/9.5	<b>Breakdown Torque</b>	69.8 LB-FT		
<b>R.P.M.</b>	1770	<b>Pull-up Torque</b>	34.3 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	42.2 LB-FT	
<b>NEMA Design Code</b>	A <b>KVA Code</b>	J	<b>Starting Current</b>	68 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	4.18 A		
<b>NEMA Nom. Eff.</b>	91.7 <b>Power Factor</b>	81	<b>Line-line Res. @ 25°C</b>	1.43 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	42°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	52°C	
			<b>Locked-rotor Power Factor</b>	37	
			<b>Rotor inertia</b>	0.861 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	43	65	76	81	83	84	82
<b>Efficiency</b>	87.4	91.6	92.3	92	91.2	90.1	91.5
<b>Speed</b>	1792	1784	1777	1769	1760	1750	1764
<b>Line amperes</b>	4.68	5.93	7.53	9.44	11.6	13.9	10.7

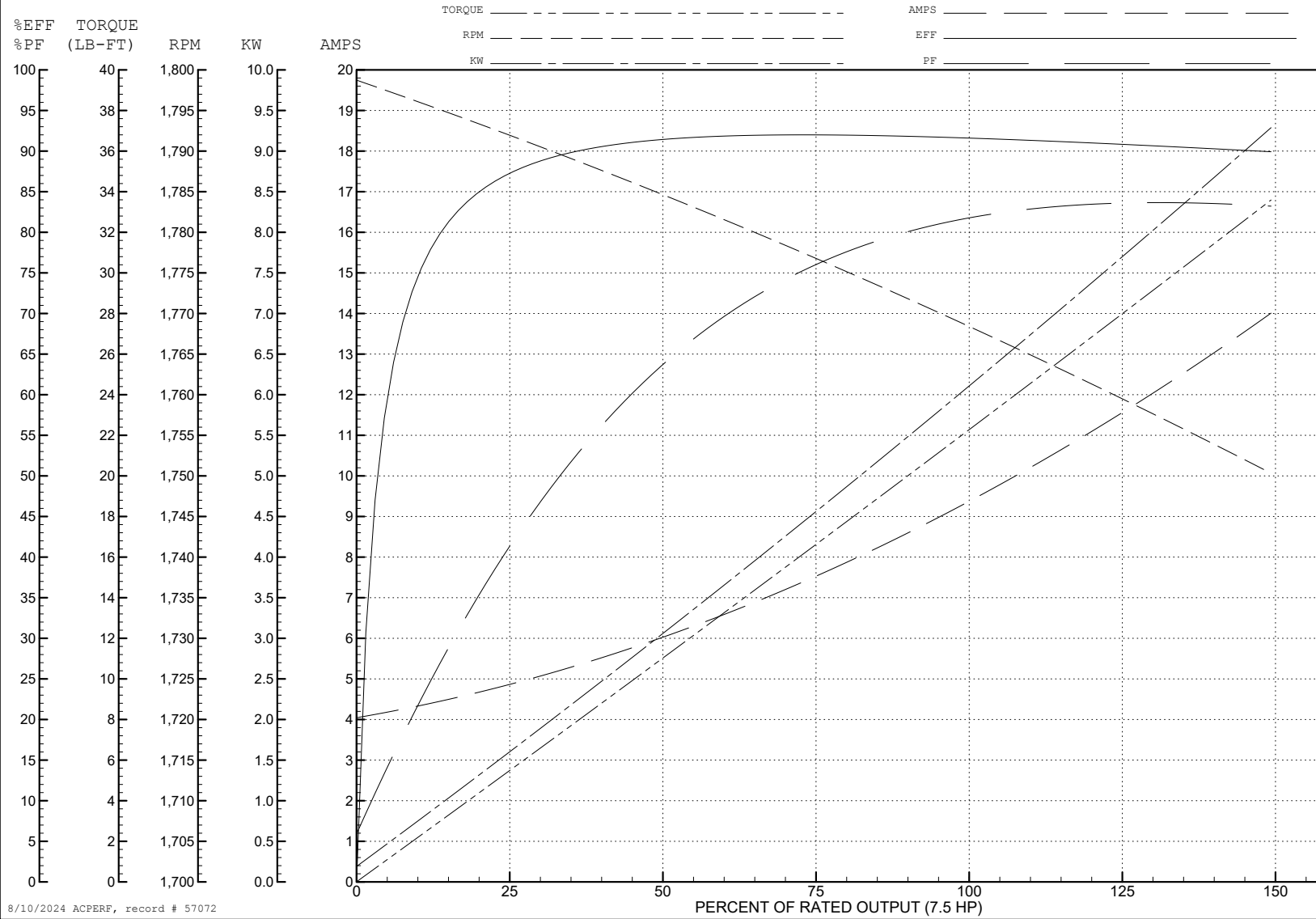
ABB Motors and Mechanical Inc.

WINDING # 07WGX790

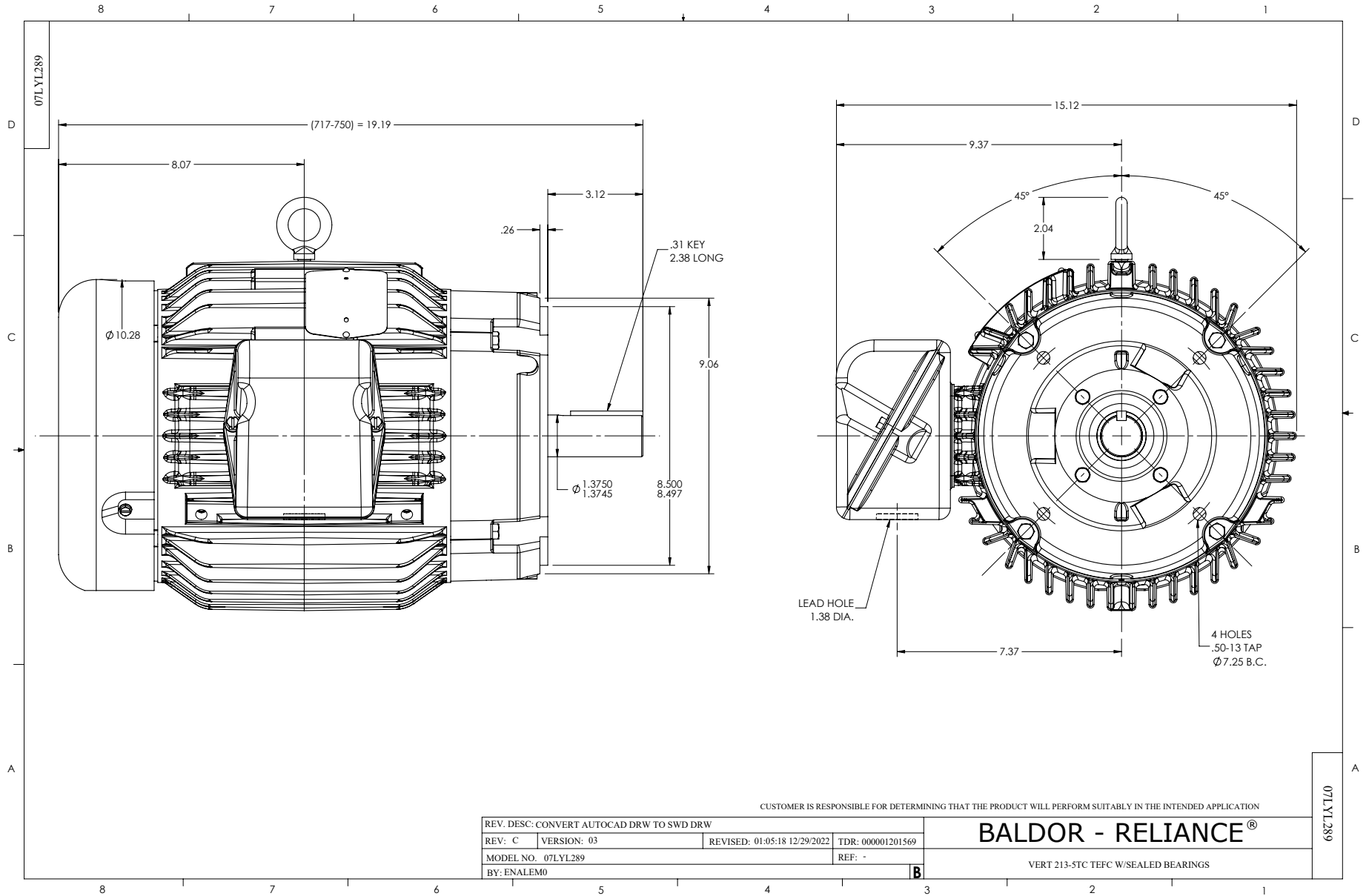
Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 0735M

TORQUES (LB-FT): PO=69.8 PU=34.3 LR=42.2 LRA=68



8/10/2024 ACPERF, record # 57072



CD0005



LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS