



Customer information packet

IDVSNM2237T-5

7.5HP, 1770RPM, 3PH, 60HZ, 0748M, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	213TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
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 CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	7.800 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	No Key Or Flat
Heater Indicator	No Heater
High Voltage Full Load Amps	7.8 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	H

Part detail

Revision	-
Type	AC
Mech. spec.	07M290
Base	
Status	PRD/A
Elec. spec.	07WGY729
Layout	07LYM290
Eff. date	11-20-2020
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	11-19-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.86 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3301L				
CAT NO	IDVSNM2237T-5			
SPEC.	07M290Y729G1			
FRAME	213TC	HP	7.5 TE	
VOLTS	575			
MAG CUR	4	FLA	7.8	
RPM	1770	RPM MAX	2700	
HZ	60	PH	3	CLASS H
SER.F.	1.00	SL HZ	1	
NEMA-NOM-EFF	91.7	WK2	1.18	
RATING	40C AMB-CONT			
DE BRG	6307	ODE BRG	6206	
CC	SN			
	1.5:1 CHP PWM			

NP VOLTS	575	Base Volt	575	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	7.8	NL AMPS	4.00	R1	0.887	X1	3.360
HP	7.5	Slip (HZ)	0.90	R2	0.581	X2	2.710
BASE SPEED	1773	WK ² (lb-ft ²)	1.180			XM	85.200
PHASE/HZ	3/60						

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1773	7.5	22.2	575	60	7.8
Max Speed	2659	7.5	14.8	575	90	7.3
CT Min Speed	1.773	0.007	22.2	0.58	0.06	7.8

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	575	60	4.0
1/4	1793	1.9	5.5	575	60	4.4
1/2	1787	3.7	10.9	575	60	5.2
3/4	1780	5.6	16.6	575	60	6.4
Full Load	1773	7.5	22.2	575	60	7.8
O/L	1748	15.0	44.9	575	60	14.7

Blower Data	Volts	Ph/Hz	FL Amps	L R Amps	Frame	CFM

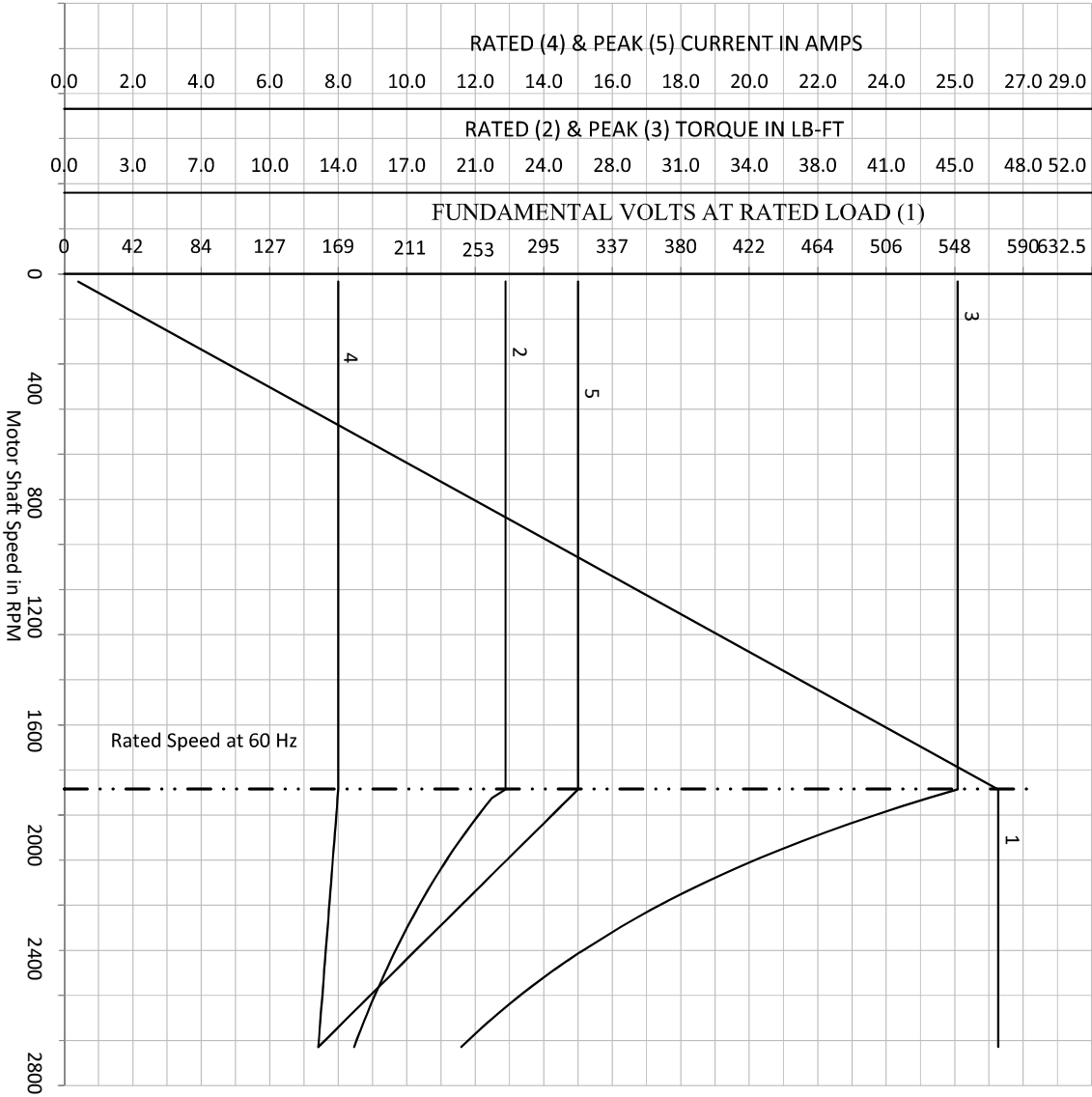
Remarks: Calculated Data

DR BY USBRRANI		A-C MOTOR	07WGY729
CK BY CD		PERFORMANCE	
APP BY USBRRANI		CURVES	
DATE 11/1/2024			Record: 85520



NP VOLTS	575	Base Volt	575	WYE CONN EQ. CKT OHMS PER PHASE (BASE RATING, 20C)		
NP AMPS	7.8	NL AMPS	4.00	R1	0.887	X1 3.360
HP	7.5	Slip (Hz)	0.90	R2	0.581	X2 2.710
BASE SPEED	1773	WK ² (lb-ft ²)	1.180			XM 85.200
PHASE/HZ	3/60					

Variable Speed AC Motor Curves



Calculated Data
Data Valid For Nameplate Speed Range only

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CK BY CD
APP BY USBRRANI
DATE 11/1/2024

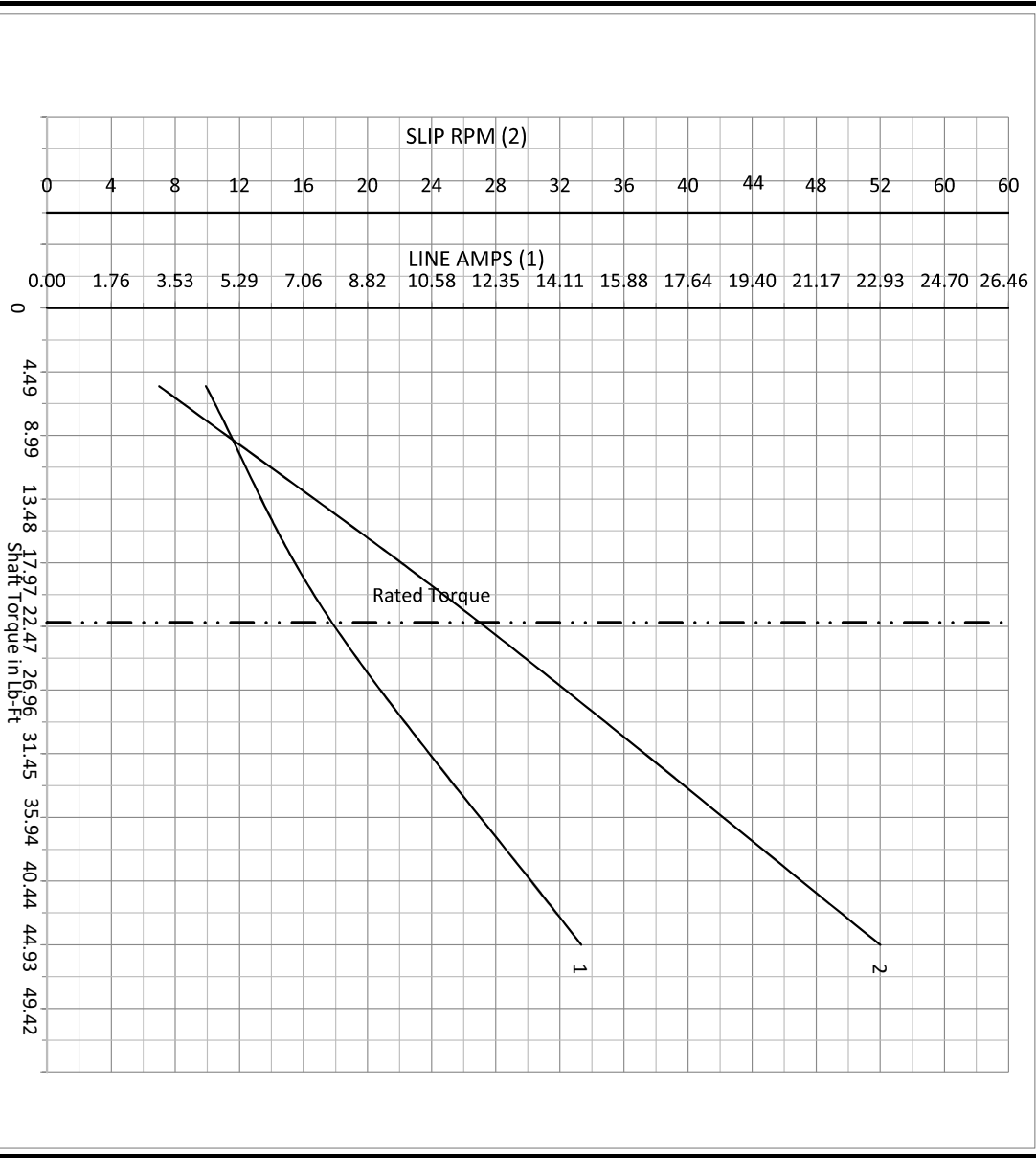
**A-C MOTOR
PERFORMANCE
CURVES**

07WGY729

Record: 85520

NP VOLTS	575	0	0	WYE CONN. EQ. CKT. OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	7.8	Base Volt	575	R1	0.887	X1	3.360
HP	7.5	NL AMPS	4.00	R2	0.581	X2	2.710
BASE SPEED	1773	Slip (HZ)	0.90				
PHASE/HZ	3/60	WK2 (lb-ft/2)	1.180	XM	85.200		

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



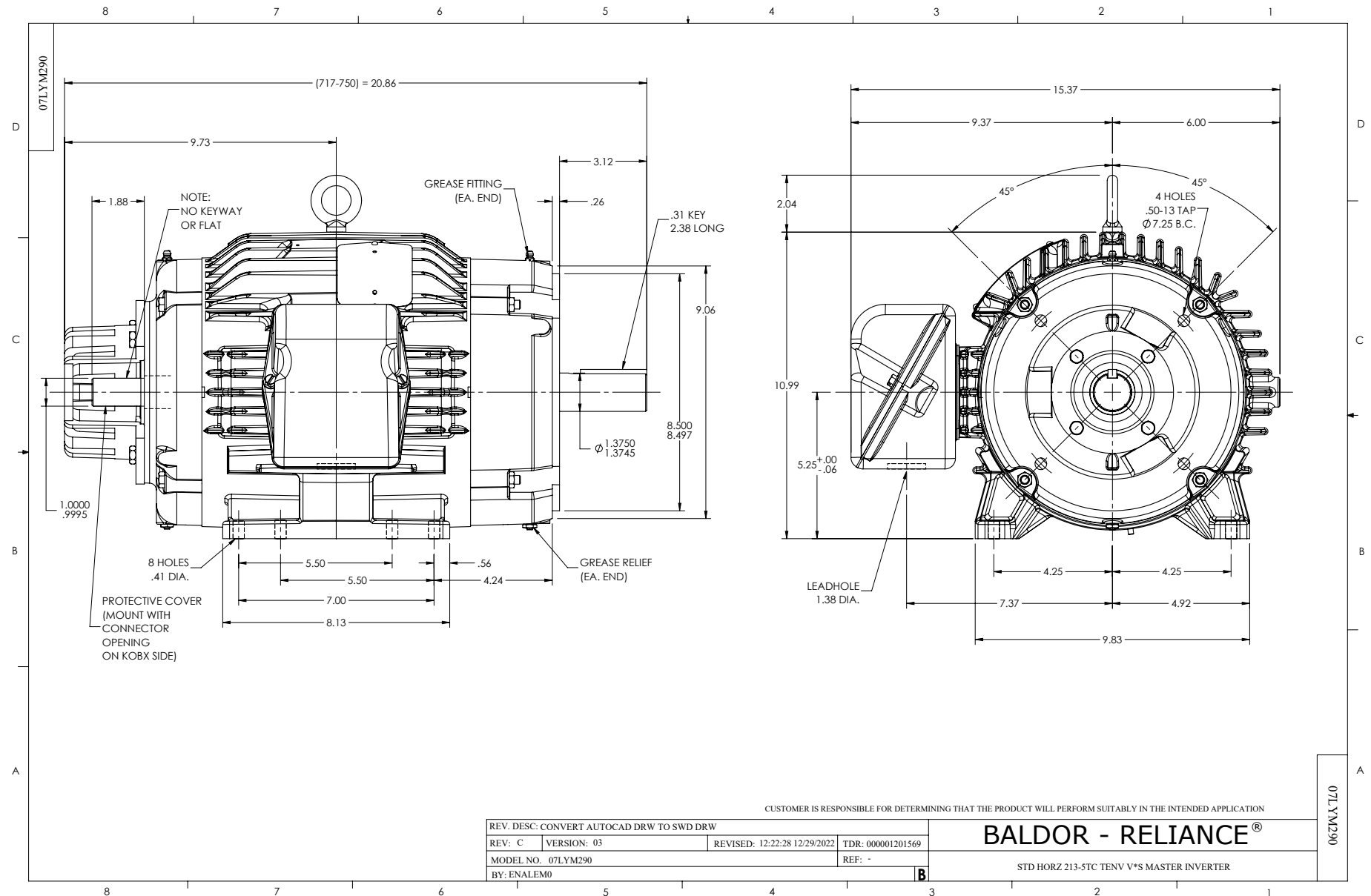
Calculated Data
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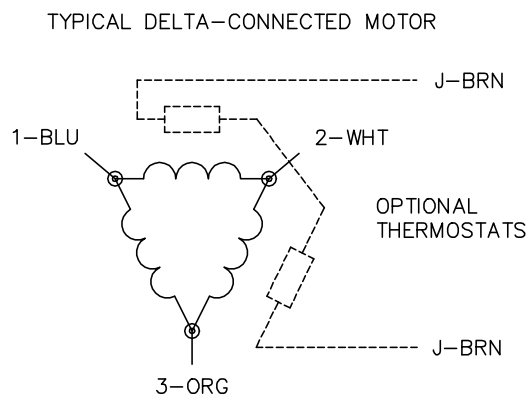
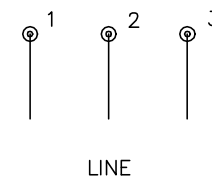
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CK BY CD
APP BY USBRRANI
DATE 11/1/2024

A-C MOTOR
PERFORMANCE
CURVES

07WGY729
Record: 85520



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: -



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

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