

**BALDOR • RELIANCE**

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# Customer information packet

## VXM050742-5

.75HP, 1765RPM, 3PH, 60HZ, 56C, 3514M, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

## Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP D; CL II GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
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	6
Current @ Voltage	.960 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	F

## Part detail

Revision	A
Type	AC
Mech. spec.	35E374
Base	
Status	PRD/A
Elec. spec.	35WGG123
Layout	35LYE374
Eff. date	09-20-2023
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	02-23-2023

Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3514M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.28 IN
Power Factor	73
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1765 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**

**NP0887XPSLEV**

<b>NO.</b>		<b>CC</b>	
<b>S/N</b>		<b>TEMP CODE</b>	T3C
<b>SPEC.</b>	35E374G123	<b>INV.TYPE</b>	PWM
<b>CAT.NO.</b>	VXM050742-5	<b>C HP FR</b>	60
<b>HP</b>	.75	<b>C HP TO</b>	90
<b>VOLTS</b>	575	<b>CT HZ FROM</b>	6
<b>AMPS</b>	.96	<b>CT HZ TO</b>	60
<b>RPM</b>	1765	<b>VT HZ FROM</b>	6
<b>HZ</b>	60	<b>VT HZ TO</b>	60
<b>SER.F.</b>	1.15	<b>MAG CUR</b>	.66
<b>FRAME</b>	56C	<b>MX RPM</b>	2700
	<b>PH</b>	3	<b>CL</b>
	F	<b>NOM.EFF.</b>	82.5
	<b>DES</b>	B	<b>SL HZ</b>
	1.2	<b>WK2</b>	0.101
	<b>RATING</b>	40C AMB-CONT	
	SFA 1.05		
	1.15 SF ON SINE WAVE		

**AC Induction Motor Performance Data**

Record # 88373

Typical performance - not guaranteed values

<b>Winding:</b> 35WGG123-R007		<b>Type:</b> 3514M		<b>Enclosure:</b> OPEN	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	.75	<b>Full Load Torque</b>	2.25 LB-FT		
<b>Volts</b>	575	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	.93	<b>Breakdown Torque</b>	7.36 LB-FT		
<b>R.P.M.</b>	1765	<b>Pull-up Torque</b>	4.05 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	4.68 LB-FT		
<b>NEMA Design Code</b>	B	<b>Starting Current</b>	6.16 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	0.589 A		
<b>NEMA Nom. Eff.</b>	82.5	<b>Line-line Res. @ 25°C</b>	49.2 Ω		
<b>Rating - Duty</b>	40C	<b>Temp. Rise @ Rated Load</b>	24°C		
<b>S.F. Amps</b>	1.09	<b>Temp. Rise @ S.F. Load</b>	28°C		
		<b>Locked-rotor Power Factor</b>	66		
		<b>Rotor inertia</b>	0.101 lb-ft <sup>2</sup>		

**Load Characteristics 575 V, 60 Hz, 0.75 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>	34	52	65	74	80	83	78
<b>Efficiency</b>	71.1	80.8	83.1	83.6	82.8	81	83.1
<b>Speed</b>	1790	1782	1773	1763	1753	1740	1757
<b>Line amperes</b>	0.61	0.682	0.782	0.913	1.07	1.26	1.01

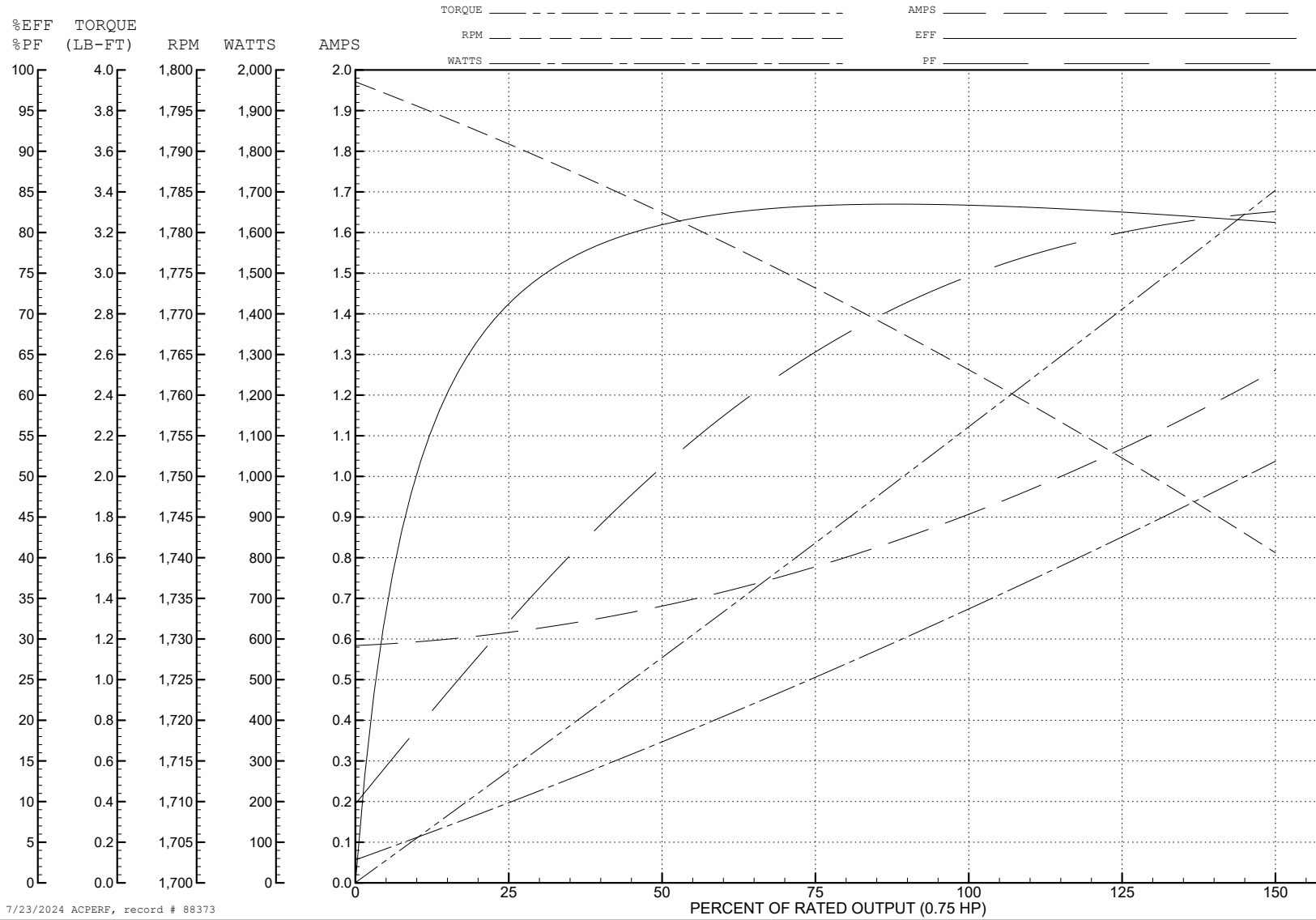
ABB Motors and Mechanical Inc.

WINDING # 35WGG123

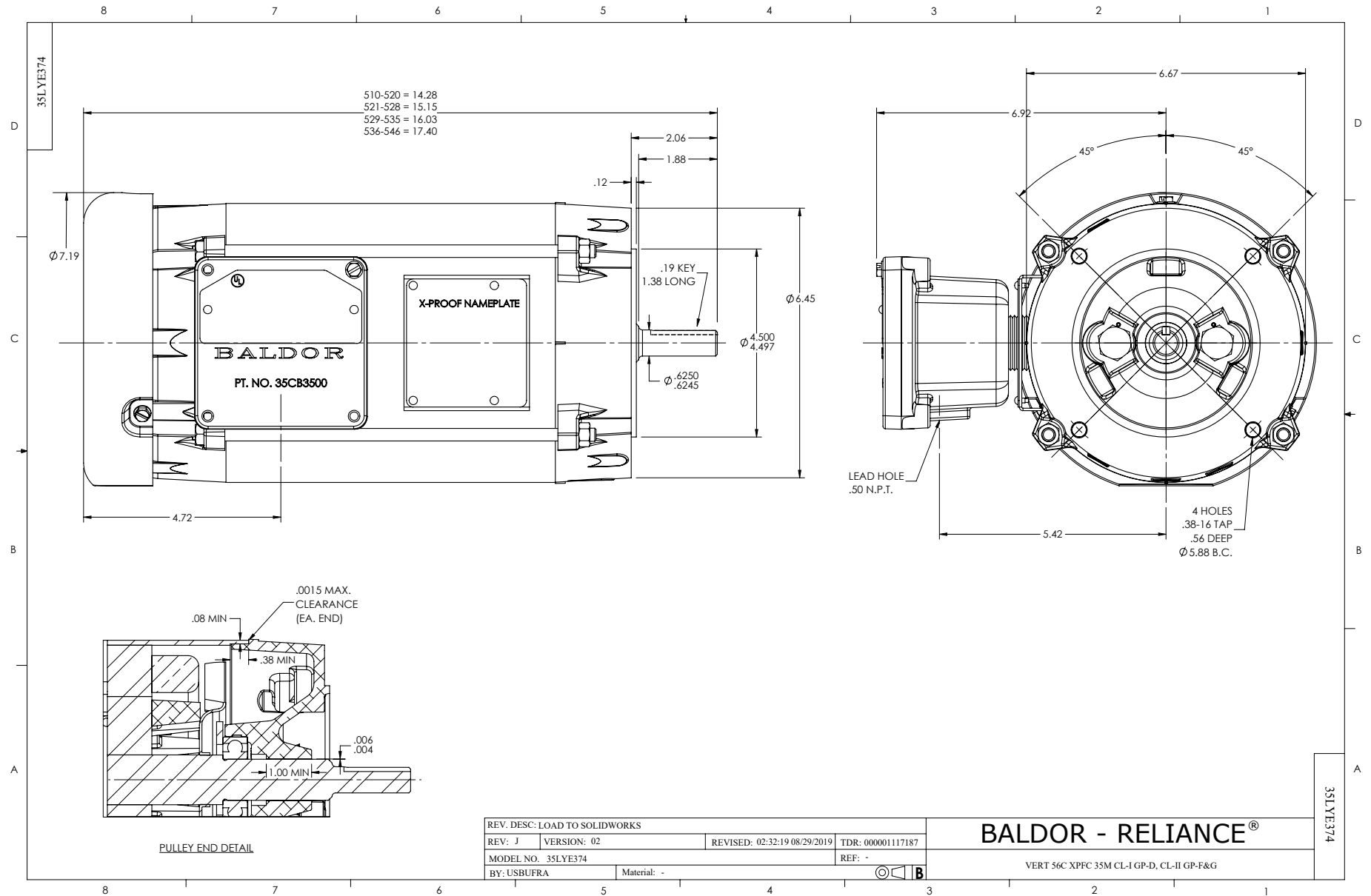
0.75 HP 3 PH 60 HZ 1765 RPM 575 V 3514M

Typical performance - not guaranteed values.

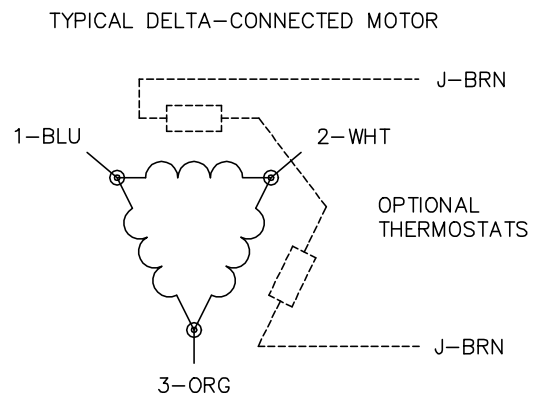
TORQUES (LB-FT): PO=7.36 PU=4.05 LR=4.68 LRA=6.16



7/23/2024 ACPERF, record # 88373



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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