

ABB BALDOR RELIANCE III

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	CLI GP D; CLII 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
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	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	B
Type	AC
Mech. spec.	35E374
Base	
Status	PRD/A
Elec. spec.	35WGG123
Layout	35LYE374
Eff. date	10-21-2024
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											
NO.						CC					
S/N						TEMP CODE	T3C				
SPEC.	35E374G123					INV.TYPE	PWM				
CAT.NO.	VXM050742-5					C HP FR	60	C HP TO	90		
HP	.75					CT HZ FROM	6	CT HZ TO	60		
VOLTS	575					VT HZ FROM	6	VT HZ TO	60		
AMPS	.96				MAG CUR	.66					
RPM	1765				MX RPM	2700					
HZ	60	PH	3	CL	F	NOM.EFF.	82.5				
SER.F.	1.15	DES	B	SL HZ	1.2	WK2	0.101				
FRAME	56C	RATING	40C AMB-CONT								
	SFA 1.05										
	1.15 SF ON SINE WAVE										

AC Induction Motor Performance Data

Record # 88373

Typical performance - not guaranteed values

Winding: 35WGG123-R007			Type: 3514M		Enclosure: OPEN	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		.75	Full Load Torque		2.25 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		.93	Breakdown Torque		7.36 LB-FT	
R.P.M.		1765	Pull-up Torque		4.05 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	4.68 LB-FT	
NEMA Design Code	B	KVA Code	K	Starting Current	6.16 A	
Service Factor (S.F.)		1.15	No-load Current		0.589 A	
NEMA Nom. Eff.	82.5	Power Factor	73	Line-line Res. @ 25°C	49.2 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		24°C	
S.F. Amps		1.09	Temp. Rise @ S.F. Load		28°C	
			Locked-rotor Power Factor		66	
			Rotor inertia		0.101 lb-ft²	

Load Characteristics 575 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	52	65	74	80	83	78
Efficiency	71.1	80.8	83.1	83.6	82.8	81	83.1
Speed	1790	1782	1773	1763	1753	1740	1757
Line amperes	0.61	0.682	0.782	0.913	1.07	1.26	1.01

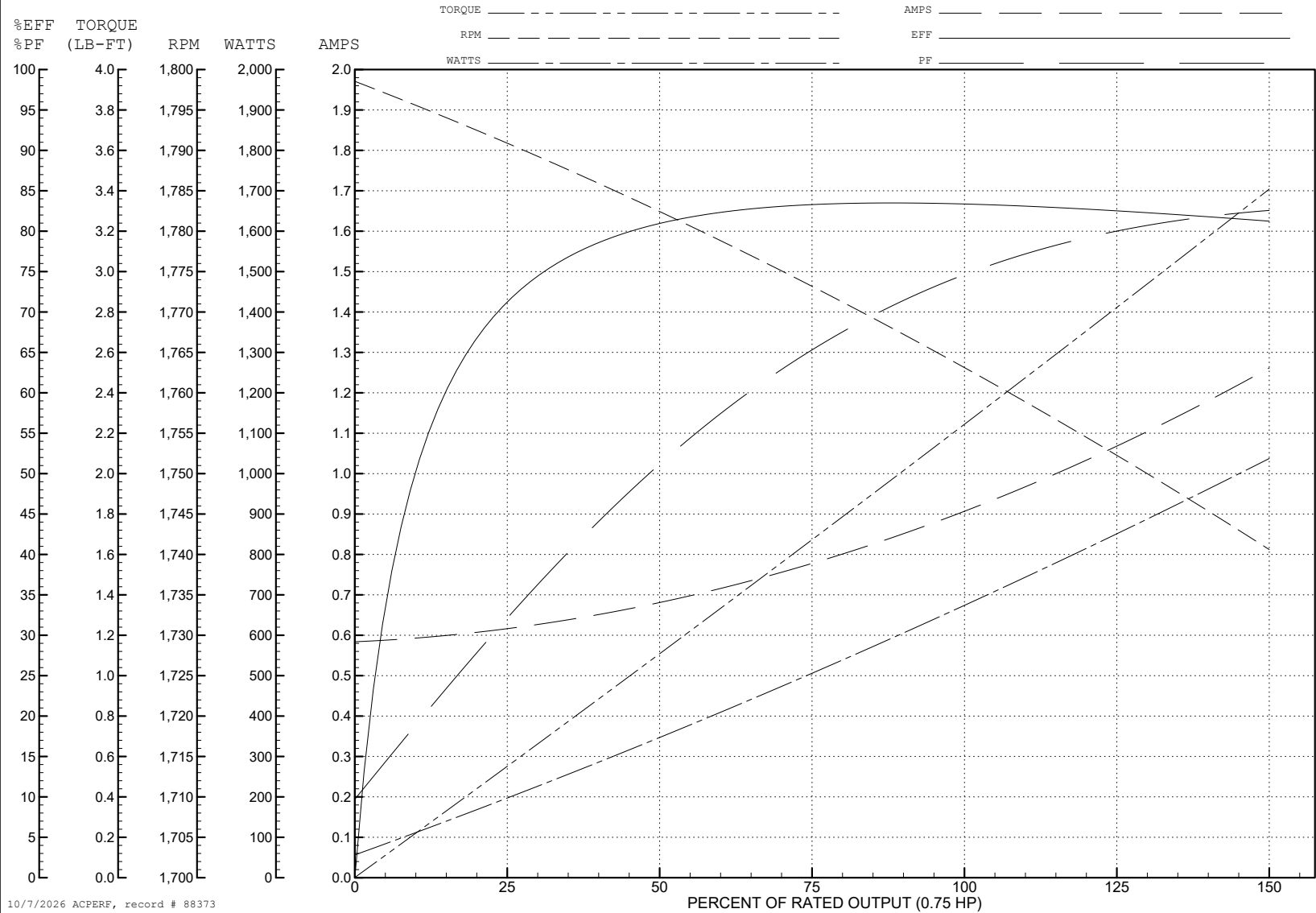
ABB Motors and Mechanical Inc.

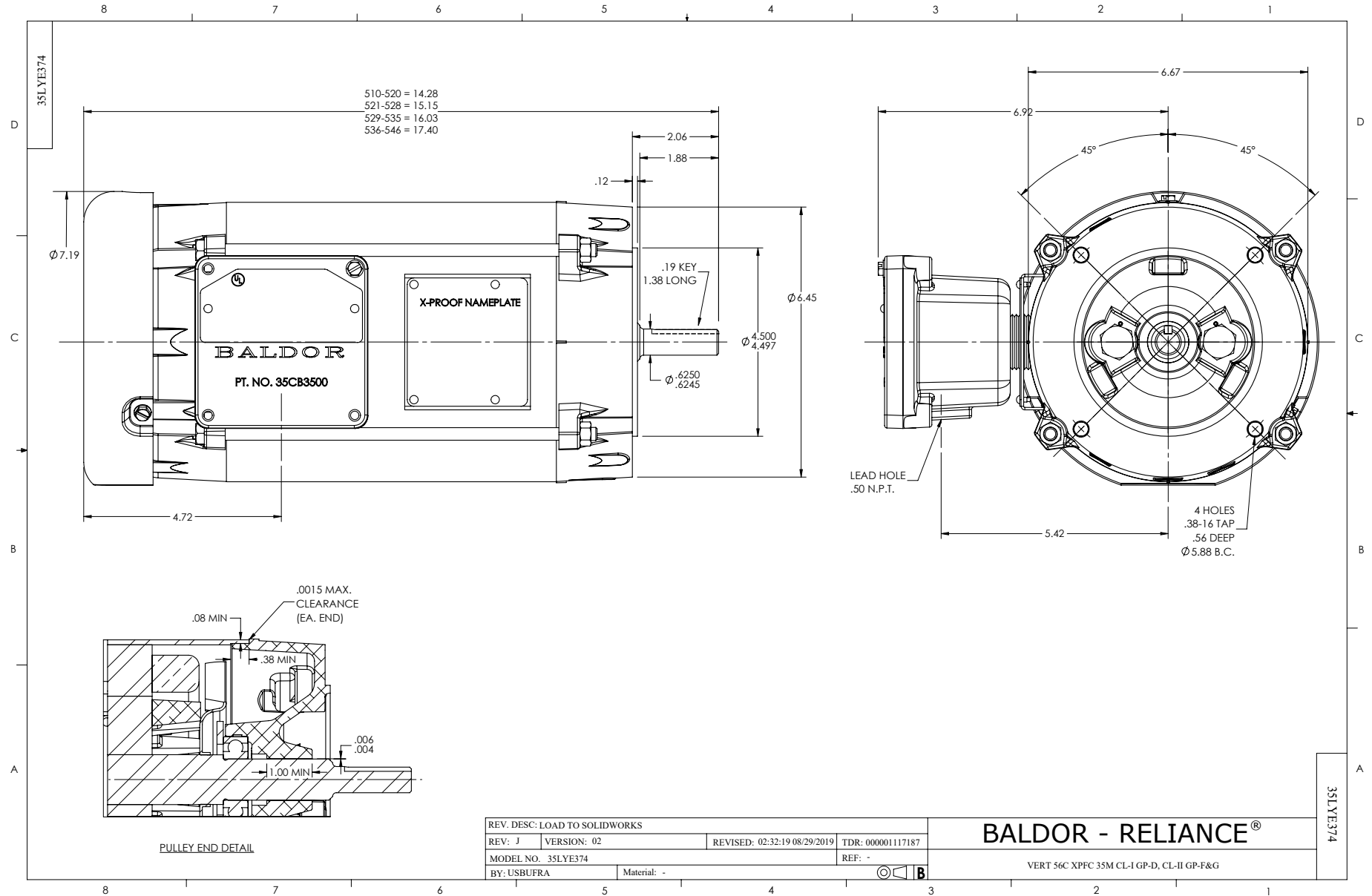
WINDING # 35WGG123

Typical performance - not guaranteed values.

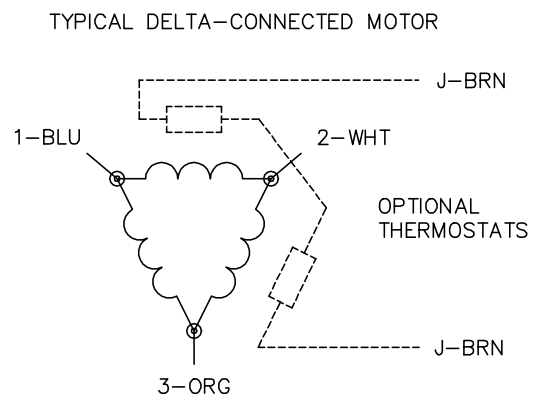
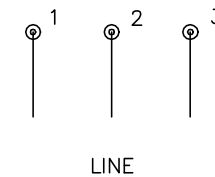
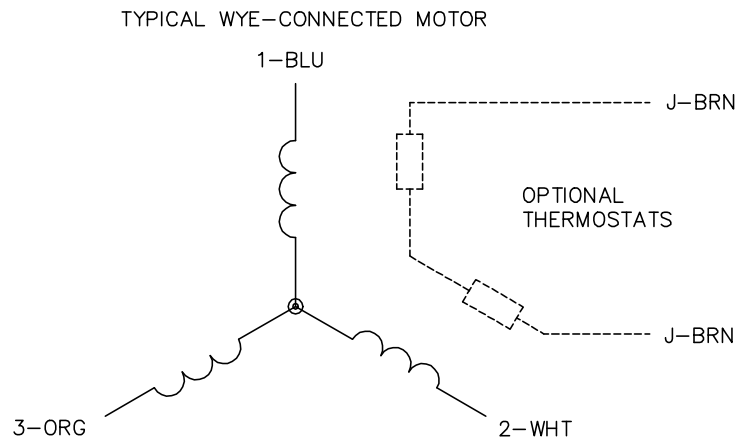
0.75 HP 3 PH 60 HZ 1765 RPM 575 V 3514M

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





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

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