

ABB BALDOR RELIANCE III

Customer information packet

VM7006-5

.5HP, 1740RPM, 3PH, 60HZ, 56C, 3512M, 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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL CSA
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
Current @ Voltage	.700 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	0.7 a
Insulation Class	B

Part Detail

Revision	R
Type	AC
Mech. spec.	35E374
Base	
Status	NLA/A
Elec. spec.	35WGN367
Layout	35LYE374
Eff. date	01-18-2023
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	08-11-2012

Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.30 IN
Power Factor	69
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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

NP1426XPSL									
NO.		CC							
SER.									
SPEC.	35E374N367G1								
CAT.NO.	VM7006-5								
HP	.5	T. CODE			T3C				
VOLTS	575								
AMPS	.7								
RPM	1740								
HZ	60	PH	3	CL	B				
SER.F.	1.00	DES	B	CODE	M				
RATING	40C AMB-CONT								
FRAME	56C	NEMA-NOM-EFF							78.5
PF	69								
BLANK									

AC Induction Motor Performance Data

Record # 43425

Typical performance - not guaranteed values

Winding: 35WGN367-R005			Type: 3512M		Enclosure: XPFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		.5	Full Load Torque			1.49 LB-FT
Volts		575	Start Configuration			direct on line
Full Load Amps		.7	Breakdown Torque			6.65 LB-FT
R.P.M.		1740	Pull-up Torque			4.62 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		5.25 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current		5.05 A
Service Factor (S.F.)		1	No-load Current			0.487 A
NEMA Nom. Eff.	78.5	Power Factor	69	Line-line Res. @ 25°C		49.7 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load			54°C
			Rotor inertia			0.0709 LB-FT2

Load Characteristics 575 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	28	45	58	69	75	80
Efficiency	59.5	73.1	78.5	79.8	80.1	78.9
Speed	1788	1774	1759	1741	1722	1702
Line amperes	0.5	0.536	0.596	0.676	0.766	0.88

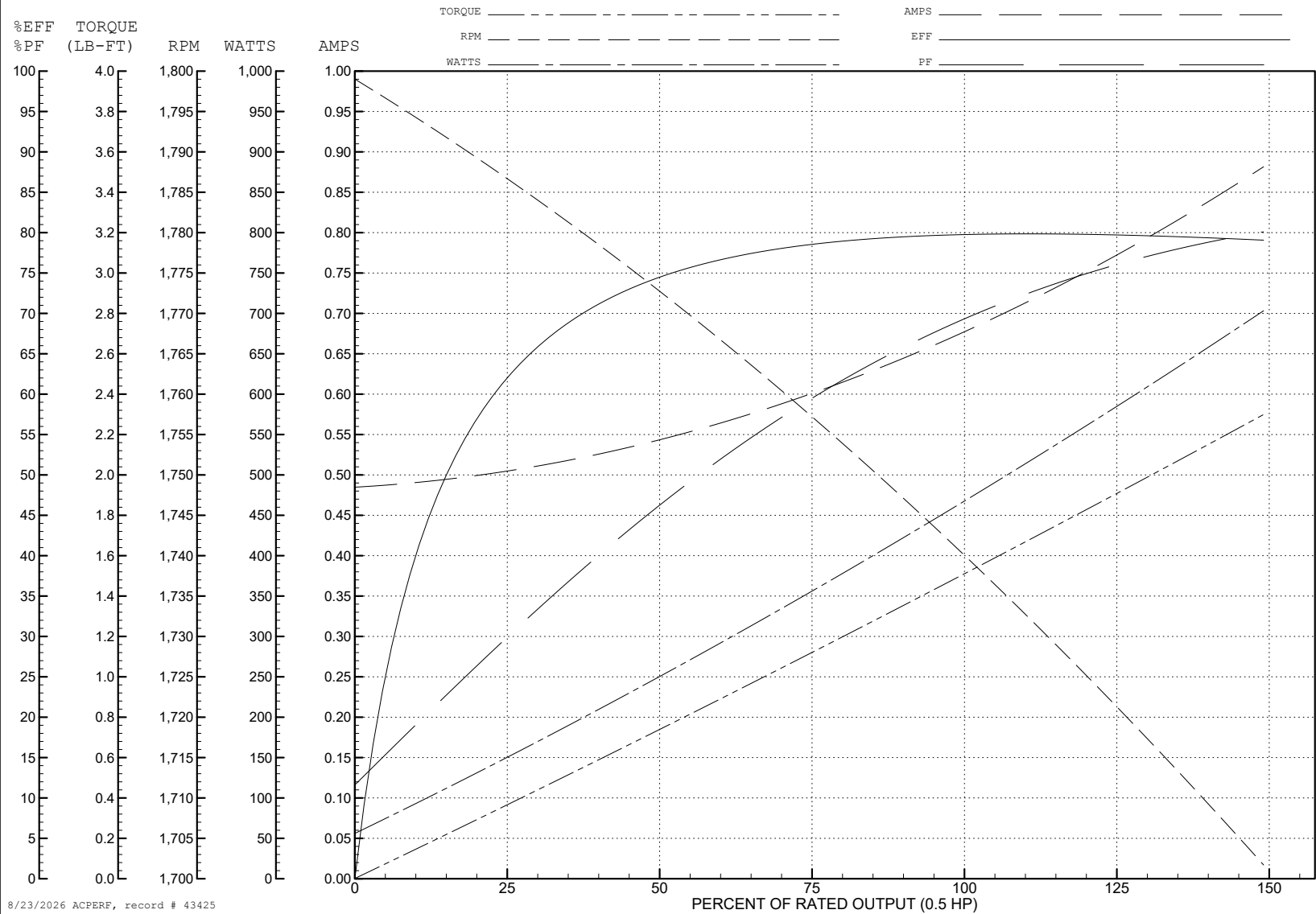
ABB Motors and Mechanical Inc.

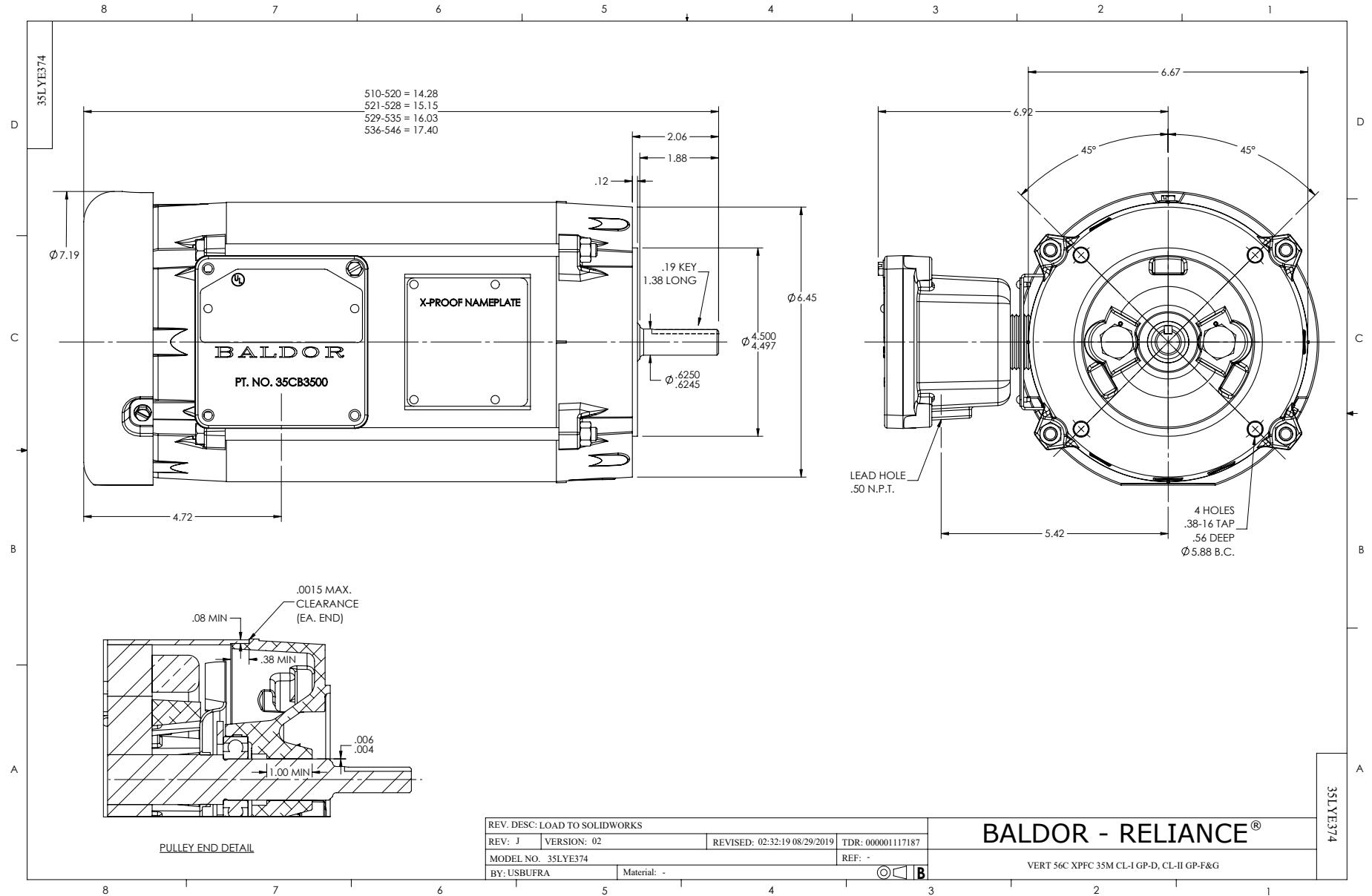
WINDING # 35WGN367

Typical performance - not guaranteed values.

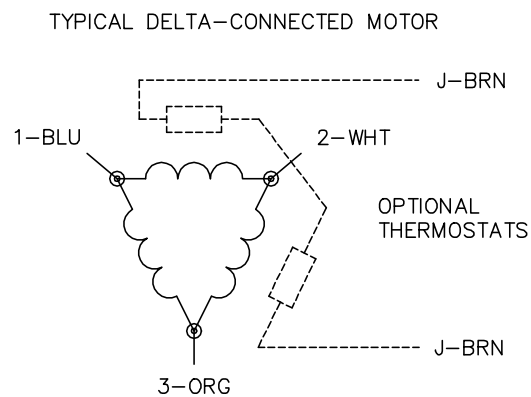
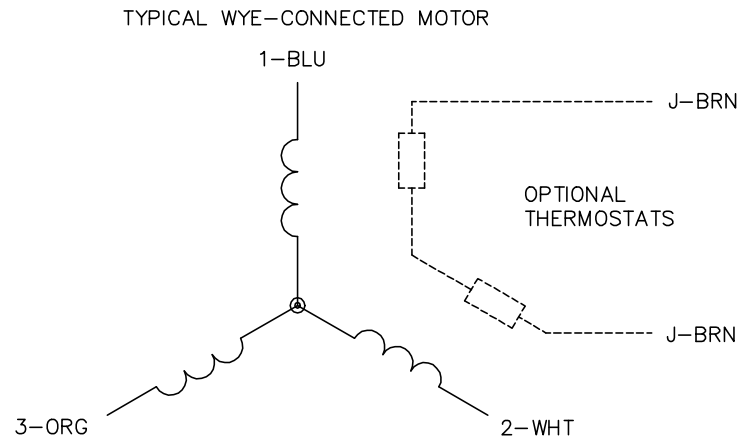
0.5 HP 3 PH 60 HZ 1740 RPM 575 V 3512M

TORQUES (LB-FT) : PO=6.65 PU=4.62 LR=5.25 LRA=5.05





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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