ABB BALDOR RELIANCE

Customer information packet

VXM050562A

.5HP, 1170RPM, 3PH, 60HZ, 56C, 3516M, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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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	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	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
Current @ Voltage	2.400 A @ 230.0 V
	2.200 A @ 208.0 V
	1.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T4

Part Detail

Revision	-
Type	AC
Mech. spec.	35E372
Base	
Status	PRD/A
Elec. spec.	35WGG348
Layout	35LYE372
Eff. date	11-06-2024
CD Diagram	CD0007
Poles	06
Leads	12#18 Y
Proprietary	False
Created date	02-23-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	1.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3516M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	14.28 IN
Power Factor	56
Product Family	General Purpose
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1170 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	Automatic Thermal Overload
Winding Thermal 1 Location	EP
Winding Thermal 2	None

Nameplate

NP0016XPSL							
NO.		**CC**					
SER. #							
SPEC	35E372G348						
CAT.NO.	VXM050562A						
H.P.	.5	**T. CODE**	T4				
VOLTS	208-230/460						
AMPS	2.2-2.4/1.2						
R.P.M.	1170						
HZ	60	**PH**	3	**CLASS**	F		
SER.F.	1.00	**DES**	B	**CODE**	M		
RATING	40C AMB-CONT						
FRAME	56C			**NEMA NOM. EFF**	72		
	PF	56					
BLANK							

AC Induction Motor Performance Data
Record # 99928
Typical performance - not guaranteed values

Winding: 35WGG348-R001	**Type:** 3516M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	2.281 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			2-2.4/1.2	**Breakdown Torque**	11.2 LB-FT
R.P.M.			1170	**Pull-up Torque**	5.04 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	6.32 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	6.68 A
Service Factor (S.F.)			1	**No-load Current**	1.01 A
NEMA Nom. Eff.	72	**Power Factor**	56	**Line-line Res. @ 25ºC**	39.575 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	45°C
				Locked-rotor Power Factor	68.8

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	24	36	46	56	63	70
Efficiency	50.1	65.4	71.8	74.8	75.8	75.7
Speed	1191.5	1184.7	1177.3	1169.4	1161	1151.4
Line amperes	1.01	1.03	1.08	1.15	1.23	1.34

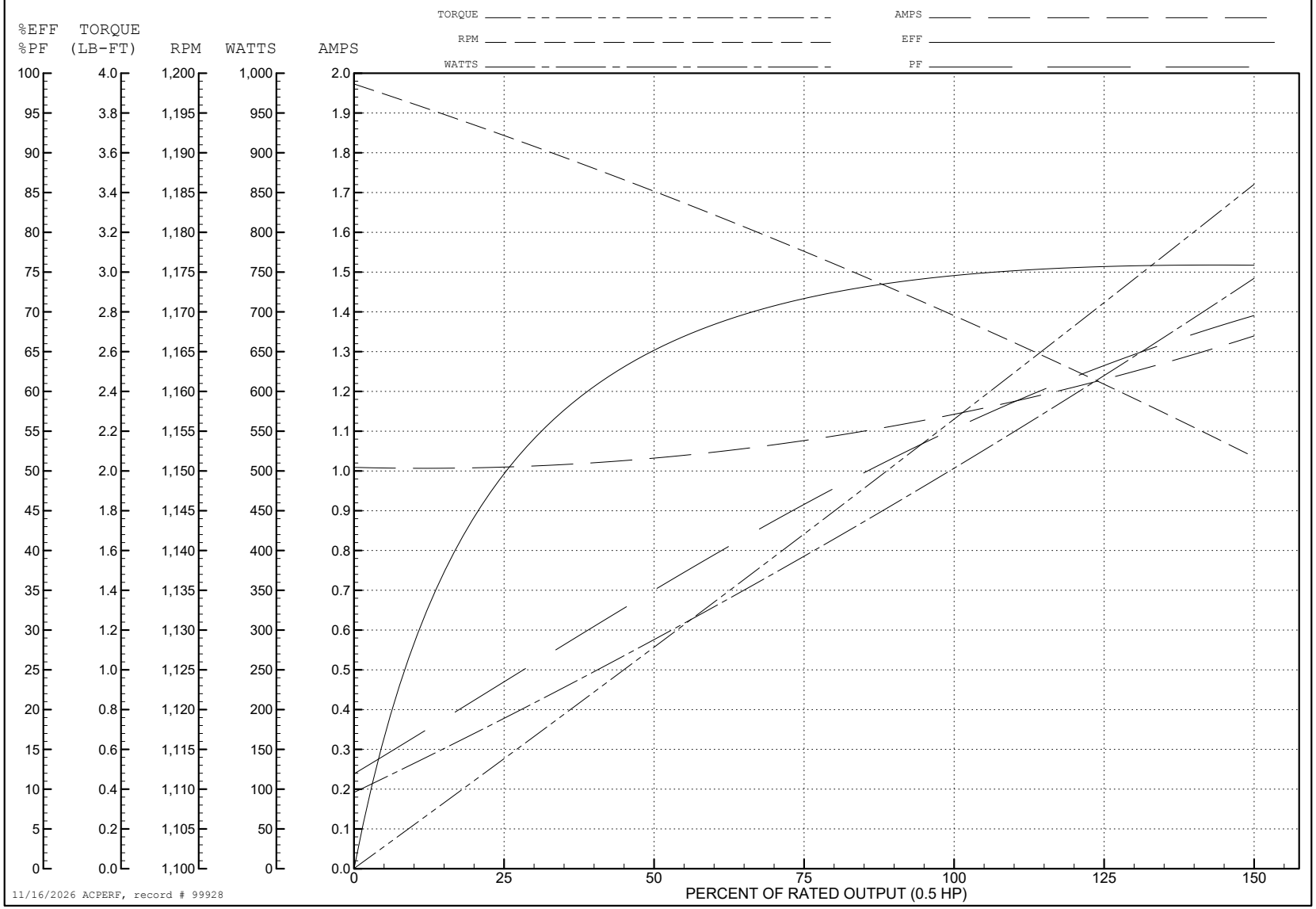
ABB Motors and Mechanical Inc.

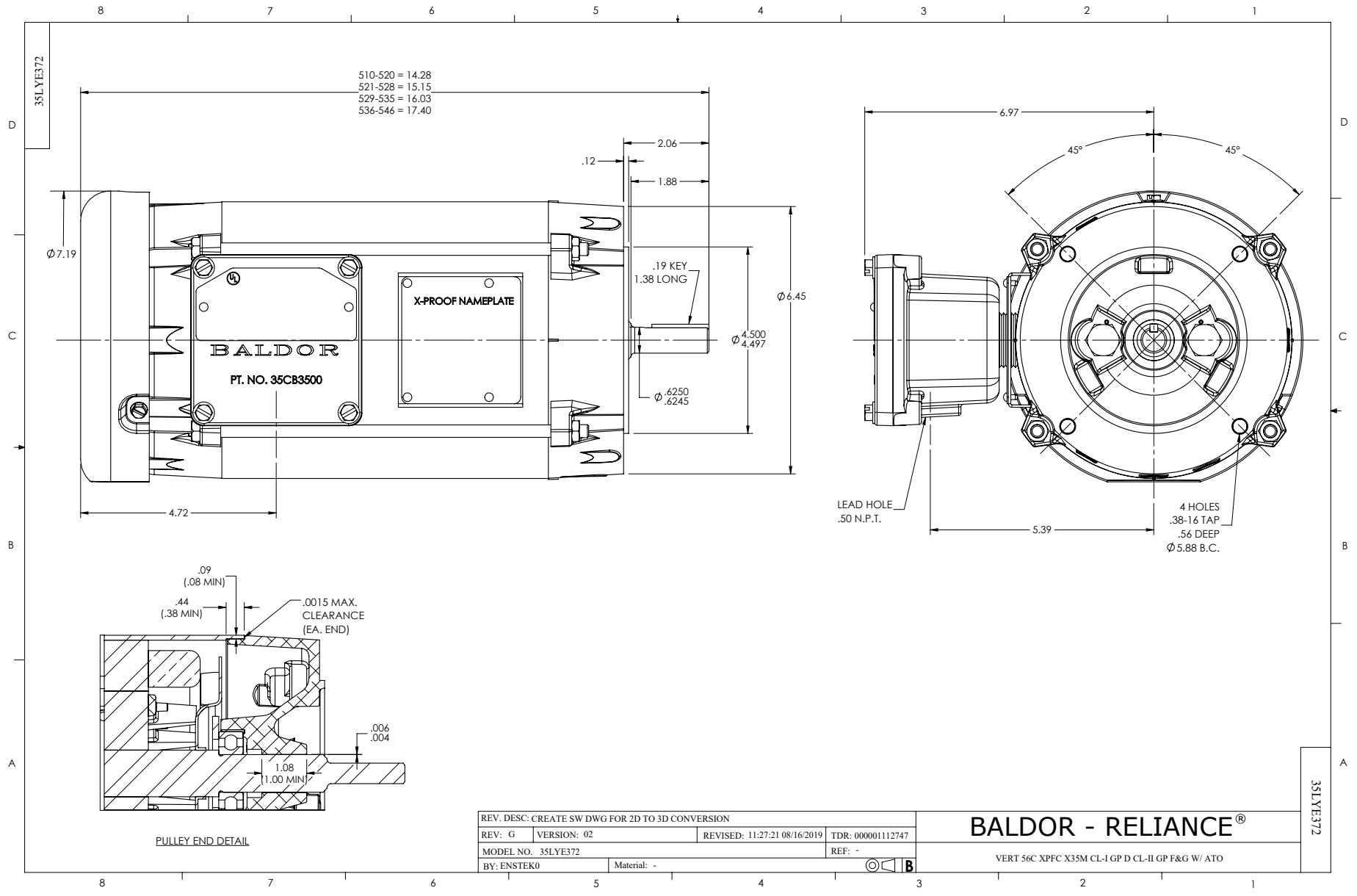
WINDING # 35WGG348

0.5 HP 3 PH 60 HZ 1170 RPM 460 V 3516M

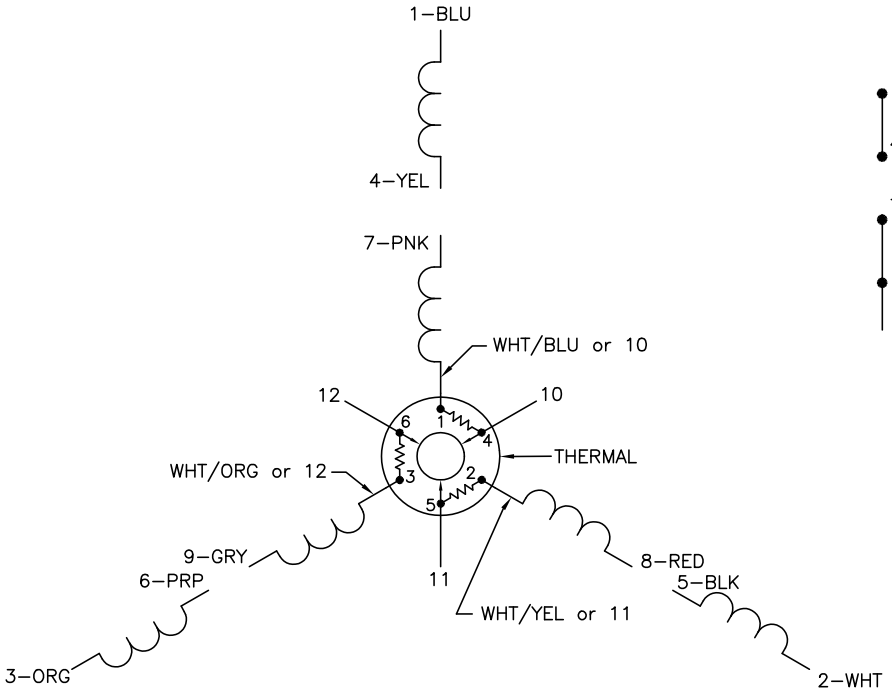
TORQUES(LB-FT): PO=11.2 PU=5.04 LR=6.32 LRA=6.68

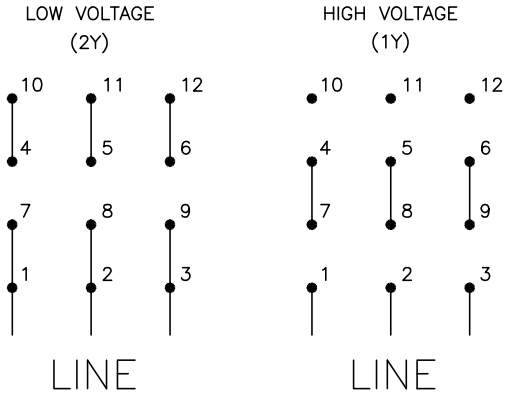
Typical performance - not guaranteed values.




35LYE372
510-520 = 14.28
521-528 = 15.15
529-535 = 16.03
536-546 = 17.40
2.06
.12
1.88
Ø7.19
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø6.45
Ø4.500
4.497
Ø.6250
.6245
4.72
6.97
45°
45°
LEAD HOLE
.50 N.P.T.
5.39
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
.09
(.08 MIN)
.44
(.38 MIN)
.0015 MAX.
CLEARANCE
(EA. END)
.006
.004
1.08
(1.00 MIN)
PULLEY END DETAIL
REV. DESC: CREATE SW DWG FOR 2D TO 3D CONVERSION
REV: G
VERSION: 02
REVISED: 11:27:21 08/16/2019
TDR: 000001112747
MODEL NO. 35LYE372
REF: -
BY: ENSTEK0
Material: -
BALDOR - RELIANCE®
VERT 56C XPFC X35M CL-I GP D CL-II GP F&G W/ ATO
35LYE372

CD0007





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE			BALDOR ELECTRIC Co.
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
CD0007		FILE: AAA00008370	MDL: –
		MTL: –	3PH, DV, THERMAL, 12 LEADS

CD0007