

ABB BALDOR RELIANCE III

Customer information packet

VXM050562A

.5HP, 1170RPM, 3PH, 60HZ, 56C, 3516M, 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	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

NP0016XP SL									
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	Starting Current		6.68 A	
Service Factor (S.F.)		1	No-load Current		1.01 A	
NEMA Nom. Eff.		72 Power Factor	Line-line Res. @ 25°C		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

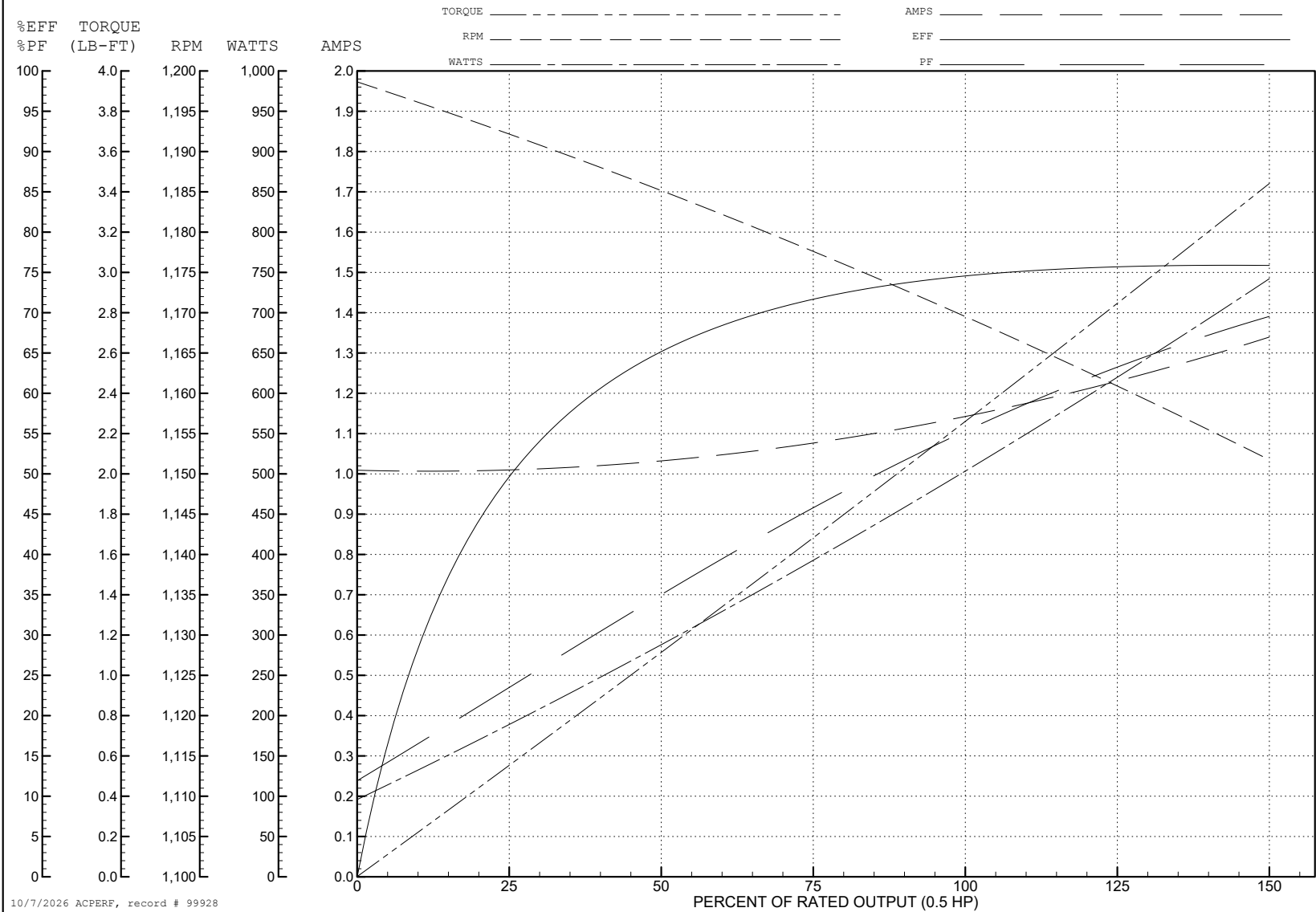
ABB Motors and Mechanical Inc.

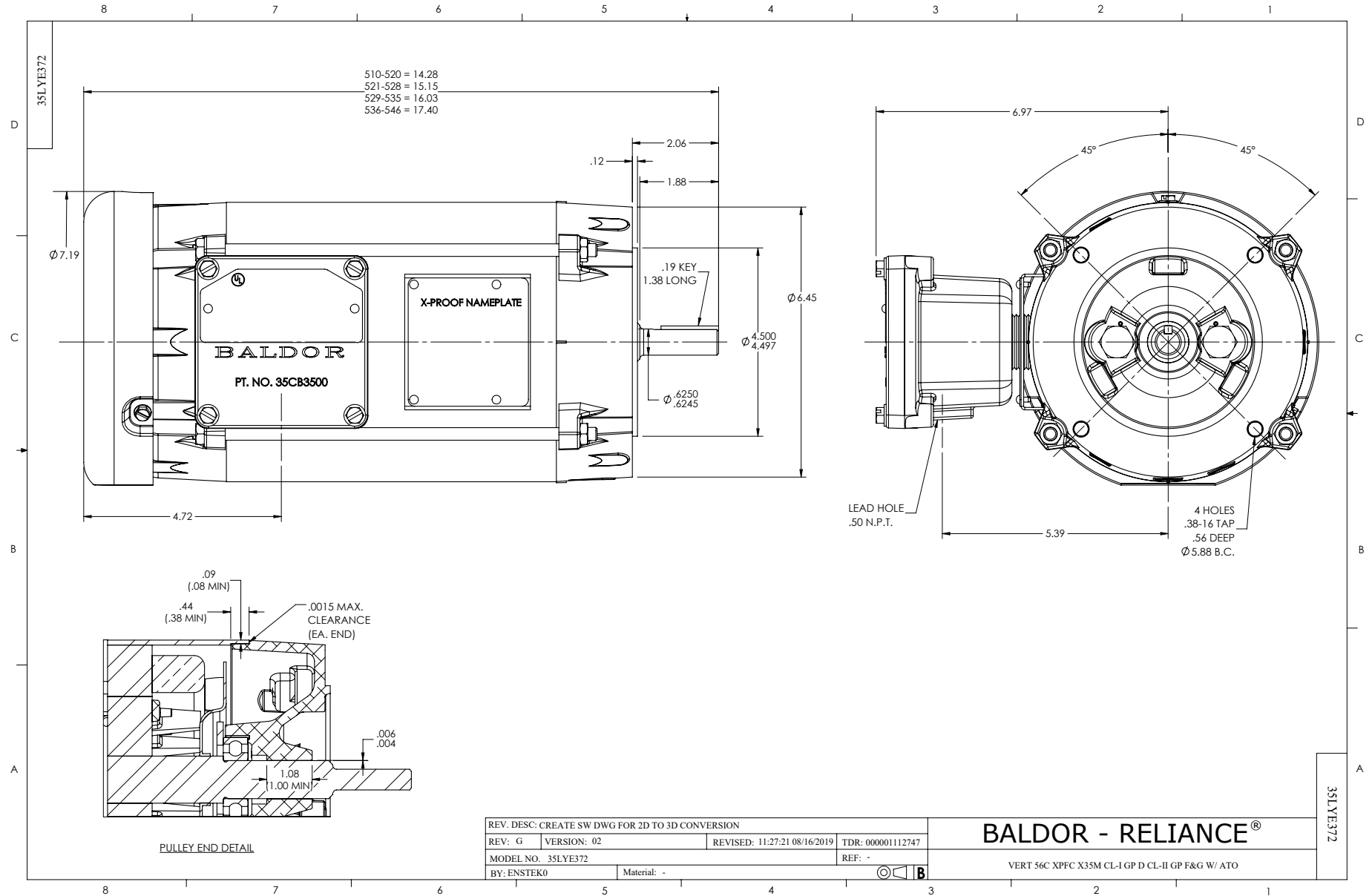
WINDING # 35WGG348

Typical performance - not guaranteed values.

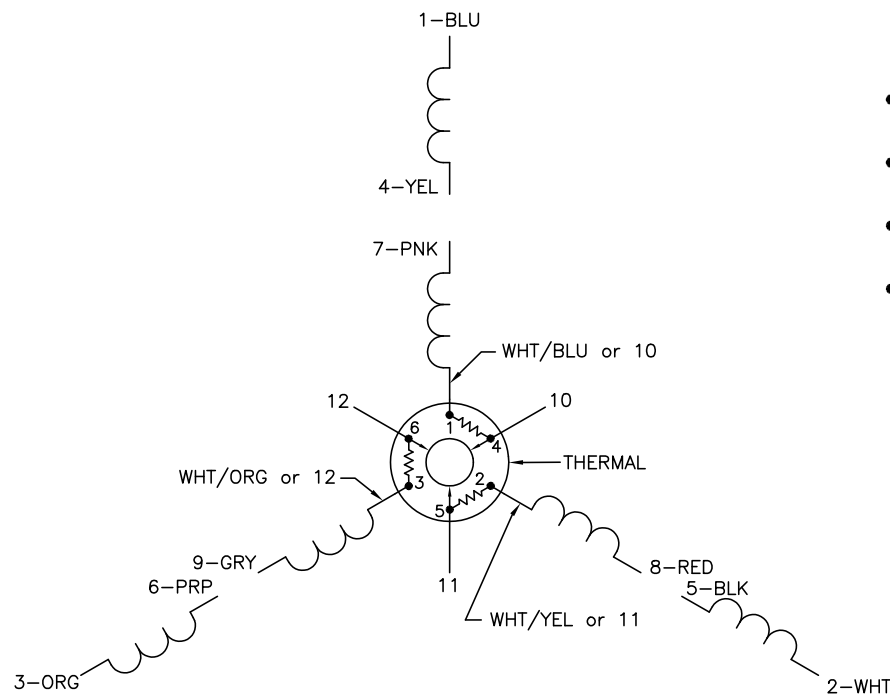
0.5 HP 3 PH 60 HZ 1170 RPM 460 V 3516M

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

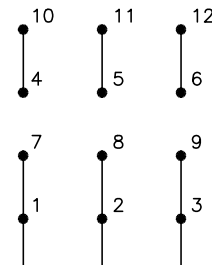




CD0007

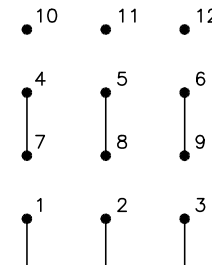


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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

REV. LTR: E

BY: EAH

REVISED: 05/06/99 17:1

TDR: 0181040

200000

FILE: AAA00008370

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, THERMAL, 12 LEADS

CD0007