ABB BALDOR RELIANCE

Customer information packet

VXM050762A

.75HP, 1180RPM, 3PH, 60HZ, 56C, 3524M, 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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	1.550 A @ 460.0 V
	3.100 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a

Part Detail

Revision	A
Type	AC
Mech. spec.	35E372
Base	
Status	PRD/A
Elec. spec.	35WGG281
Layout	35LYE372
Eff. date	02-05-2025
CD Diagram	CD0007
Poles	06
Leads	12#18
Proprietary	False
Created date	02-23-2023

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
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	X3524M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.15 IN
Power Factor	63
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	1180 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	ES
Winding Thermal 2	None

Nameplate

NP0016XPSL							
NO.			**CC**				
SER. #							
SPEC	35E372G281						
CAT.NO.	VXM050762A						
H.P.	.75		**T. CODE**	T4			
VOLTS	230/460						
AMPS	3.1/1.55						
R.P.M.	1180						
HZ	60	**PH**	3	**CLASS**	F		
SER.F.	1.00	**DES**	B	**CODE**	K		
RATING	40C AMB-CONT						
FRAME	56C			**NEMA NOM. EFF**	81.5		
		PF	63				
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 91078
Preliminary Data Sheet

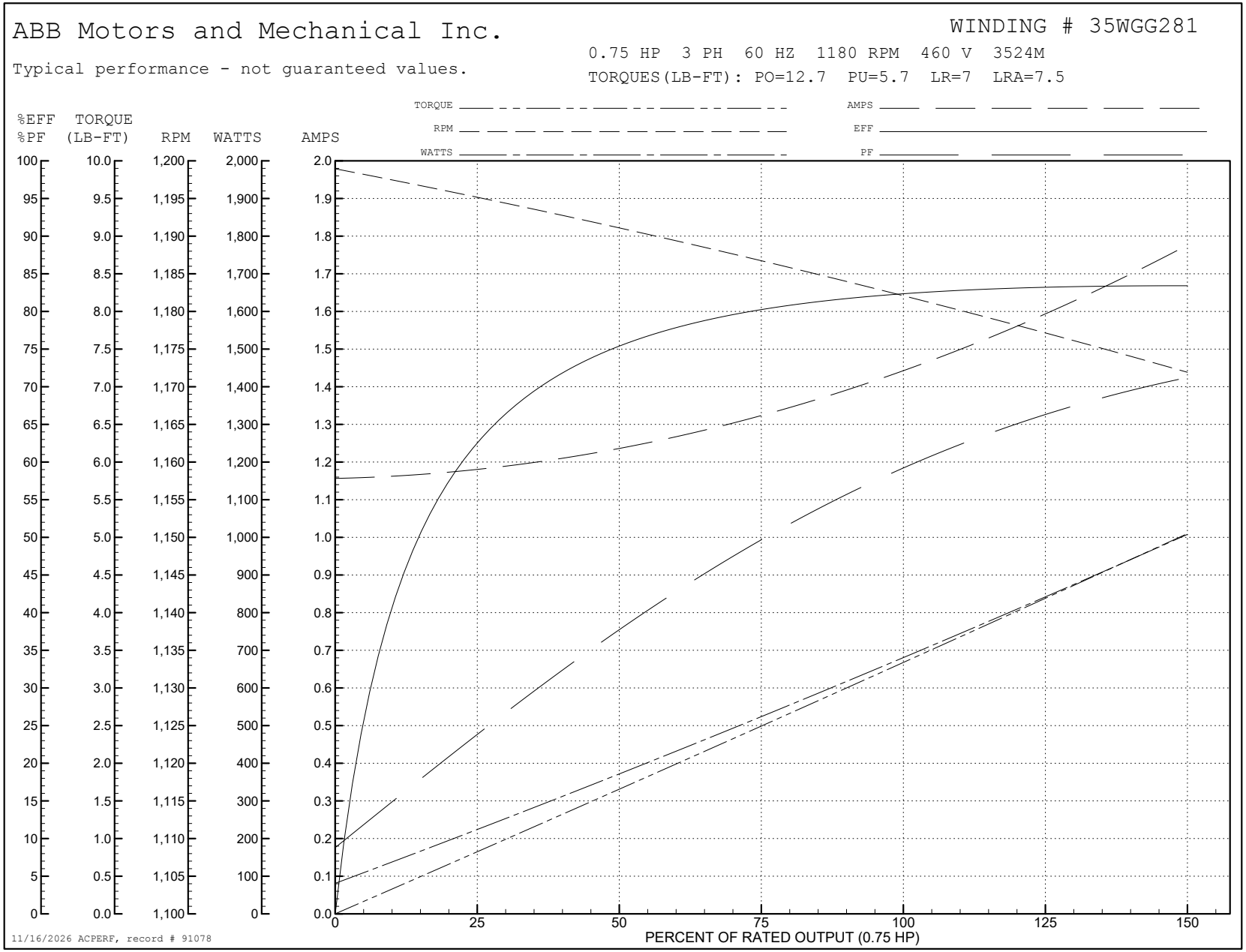
Winding: 35WGG281-R003	**Type:** 3524M	**Enclosure:** XPFC

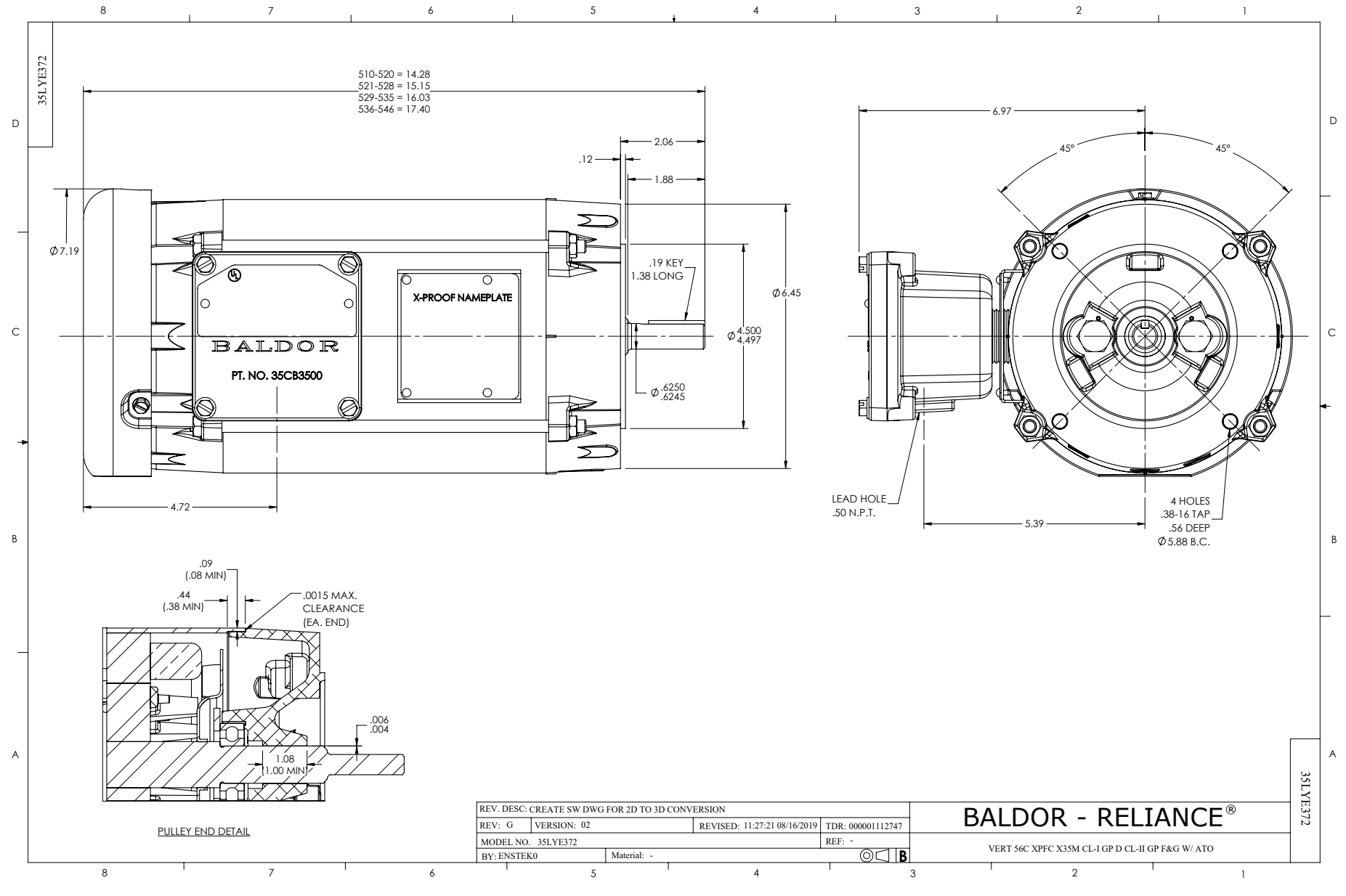
Nameplate Data			
Rated Output (HP)			.75
Volts			230/460
Full Load Amps			3.1/1.55
R.P.M.			1180
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	81.5	**Power Factor**	63
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	3.34 LB-FT
Start Configuration	direct on line
Breakdown Torque	12.7 LB-FT
Pull-up Torque	5.7 LB-FT
Locked-rotor Torque	7 LB-FT
Starting Current	7.5 A
No-load Current	1.16 A
Line-line Res. @ 25ºC	20.1 Ω
Temp. Rise @ Rated Load	31°C
Locked-rotor Power Factor	50.5
Rotor inertia	0.174 lb-ft²

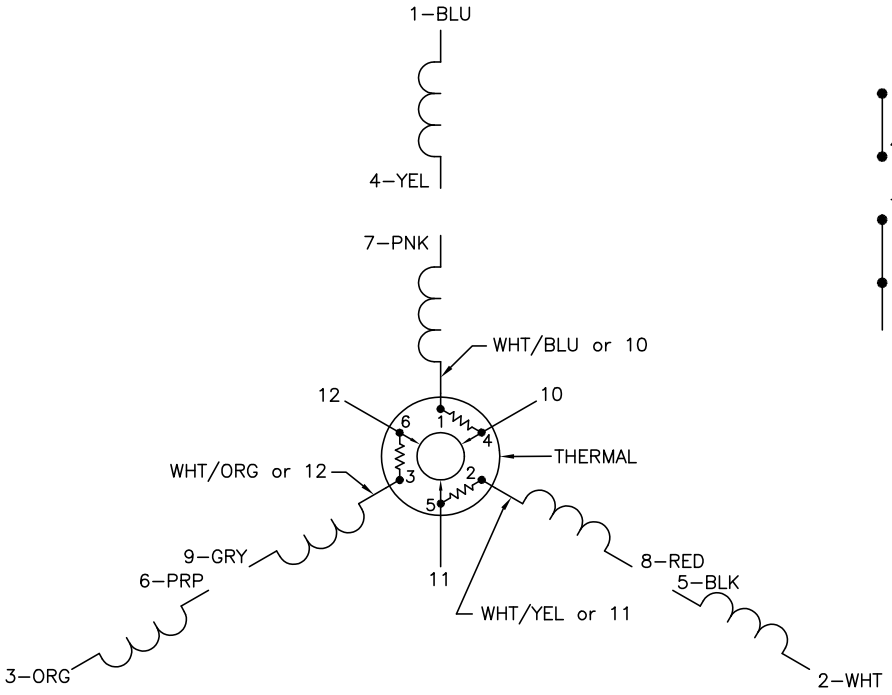
Load Characteristics 460 V, 60 Hz, 0.75 HP

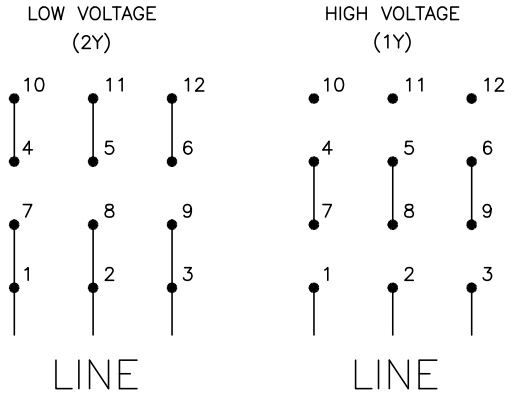
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	24	38	50	59	66	71
Efficiency	62.4	75.3	80.2	82.4	83.2	83.3
Speed	1195	1191	1187	1182	1177	1172
Line amperes	1.18	1.23	1.32	1.45	1.6	1.77


ABB Motors and Mechanical Inc.
WINDING # 35WGG281
Typical performance - not guaranteed values.
0.75 HP 3 PH 60 HZ 1180 RPM 460 V 3524M
TORQUES(LB-FT): PO=12.7 PU=5.7 LR=7 LRA=7.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/16/2026 ACPERF, record # 91078


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