ABB BALDOR RELIANCE

Customer information packet

XM050762A

.75HP, 1180RPM, 3PH, 60HZ, 56, 3524M, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	56
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	Rigid
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	C
Type	AC
Mech. spec.	35E354
Base	
Status	PRD/A
Elec. spec.	35WGG281
Layout	35LYE354
Eff. date	04-15-2025
CD Diagram	CD0007
Poles	06
Leads	12#18
Proprietary	False
Created date	12-09-2024

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
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	Normally Closed Thermostat
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	35E354G281G1						
CAT.NO.	XM050762A						
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	56			**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				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	3.34 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.1/1.55	**Breakdown Torque**	12.7 LB-FT
R.P.M.			1180	**Pull-up Torque**	5.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	7 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	7.5 A
Service Factor (S.F.)			1	**No-load Current**	1.16 A
NEMA Nom. Eff.	81.5	**Power Factor**	63	**Line-line Res. @ 25ºC**	20.1 Ω
Rating - Duty			40C AMB-CONT	**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

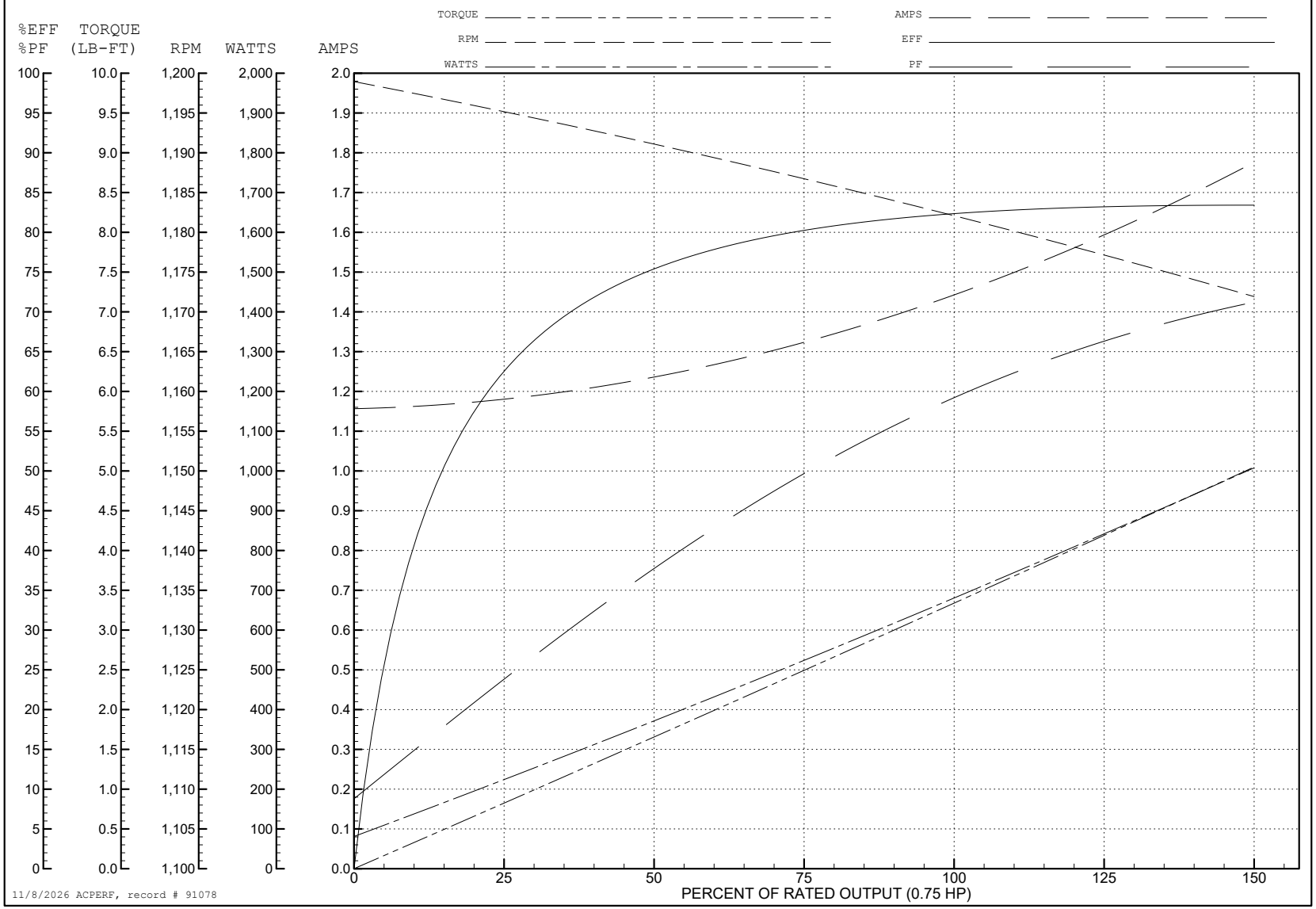
ABB Motors and Mechanical Inc.

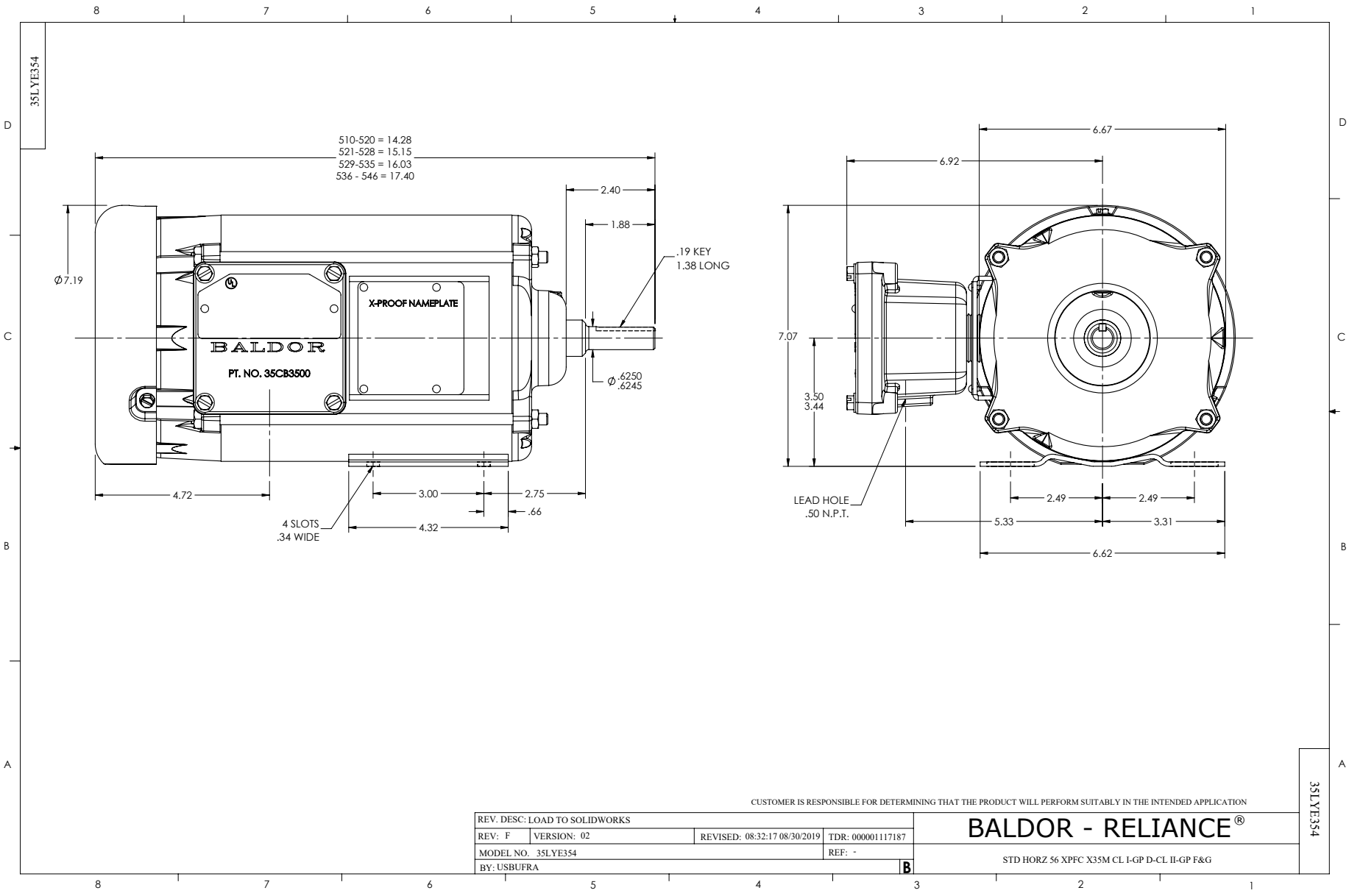
WINDING # 35WGG281

0.75 HP 3 PH 60 HZ 1180 RPM 460 V 3524M

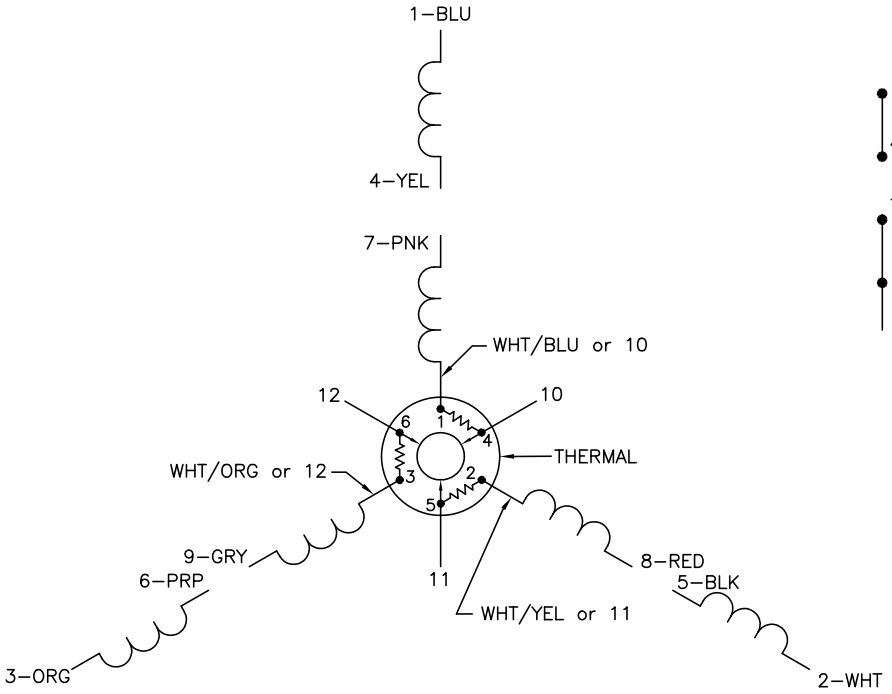
Typical performance - not guaranteed values.

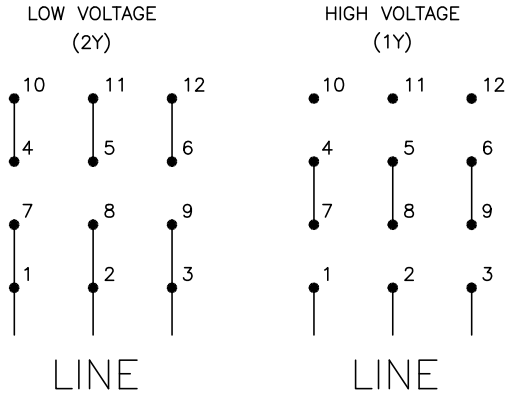
TORQUES(LB-FT): PO=12.7 PU=5.7 LR=7 LRA=7.5




35LYE354
510-520 = 14.28
521-528 = 15.15
529-535 = 16.03
536 - 546 = 17.40
2.40
1.88
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .6250
.6245
4.72
3.00
2.75
.66
4 SLOTS
.34 WIDE
4.32
6.67
6.92
7.07
3.50
3.44
LEAD HOLE
.50 N.P.T.
2.49
2.49
5.33
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: F
VERSION: 02
REVISED: 08:32:17 08/30/2019
TDR: 000001117187
MODEL NO. 35LYE354
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 56 XPFC X35M CL I-GP D-CL II-GP F&G
35LYE354

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