ABB BALDOR RELIANCE

Customer information packet

M7003A

.33HP, 1140RPM, 3PH, 60HZ, 56, X3512M, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/20/2026 11:10:49 AM

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	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	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	.800 A @ 460.0 V
	1.600 A @ 230.0 V
	1.700 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AQ
Type	AC
Mech. spec.	35E354
Base	
Status	NLA/A
Elec. spec.	35WGZ008
Layout	35LYE354
Eff. date	02-13-2023
CD Diagram	CD0007
Poles	06
Leads	12#18
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	0.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	14.30 IN
Power Factor	57
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	1140 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

Thermal Device - Winding	Do Not Use Eve-Not Valiid
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP0016XPSL					
NO.		**CC**			
SER. #					
SPEC	35E354Z08				
CAT.NO.	M7003A				
H.P.	.33	**T. CODE**	T4		
VOLTS	208-230/460				
AMPS	1.7-1.6/.8				
R.P.M.	1140				
HZ	60	**PH**	3	**CLASS**	B
SER.F.	1.00	**DES**	B	**CODE**	K
RATING	40C AMB-CONT				
FRAME	56	**NEMA NOM. EFF**			70
PF	57				
BLANK					

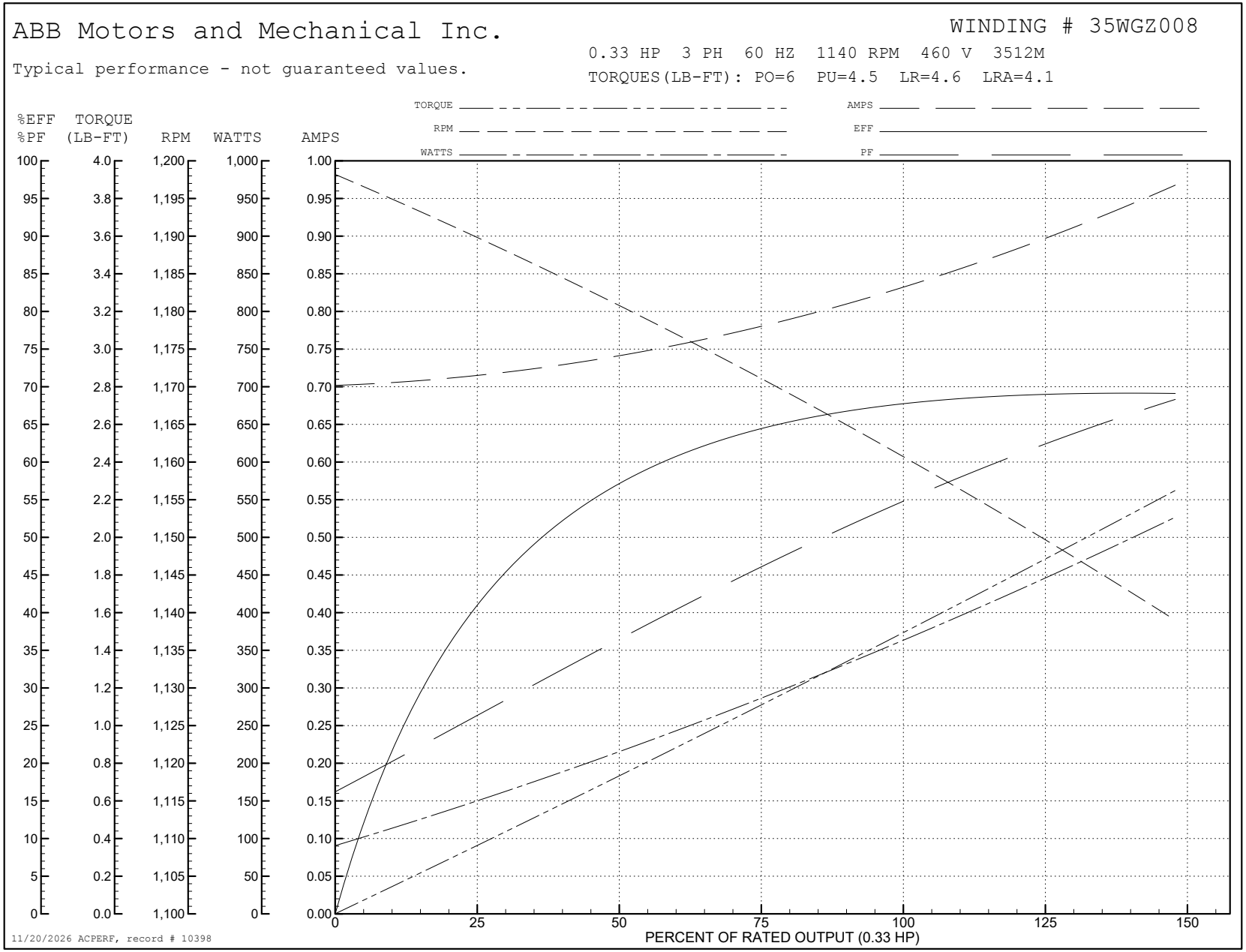
AC Induction Motor Performance Data
Record # 10398
Typical performance - not guaranteed values

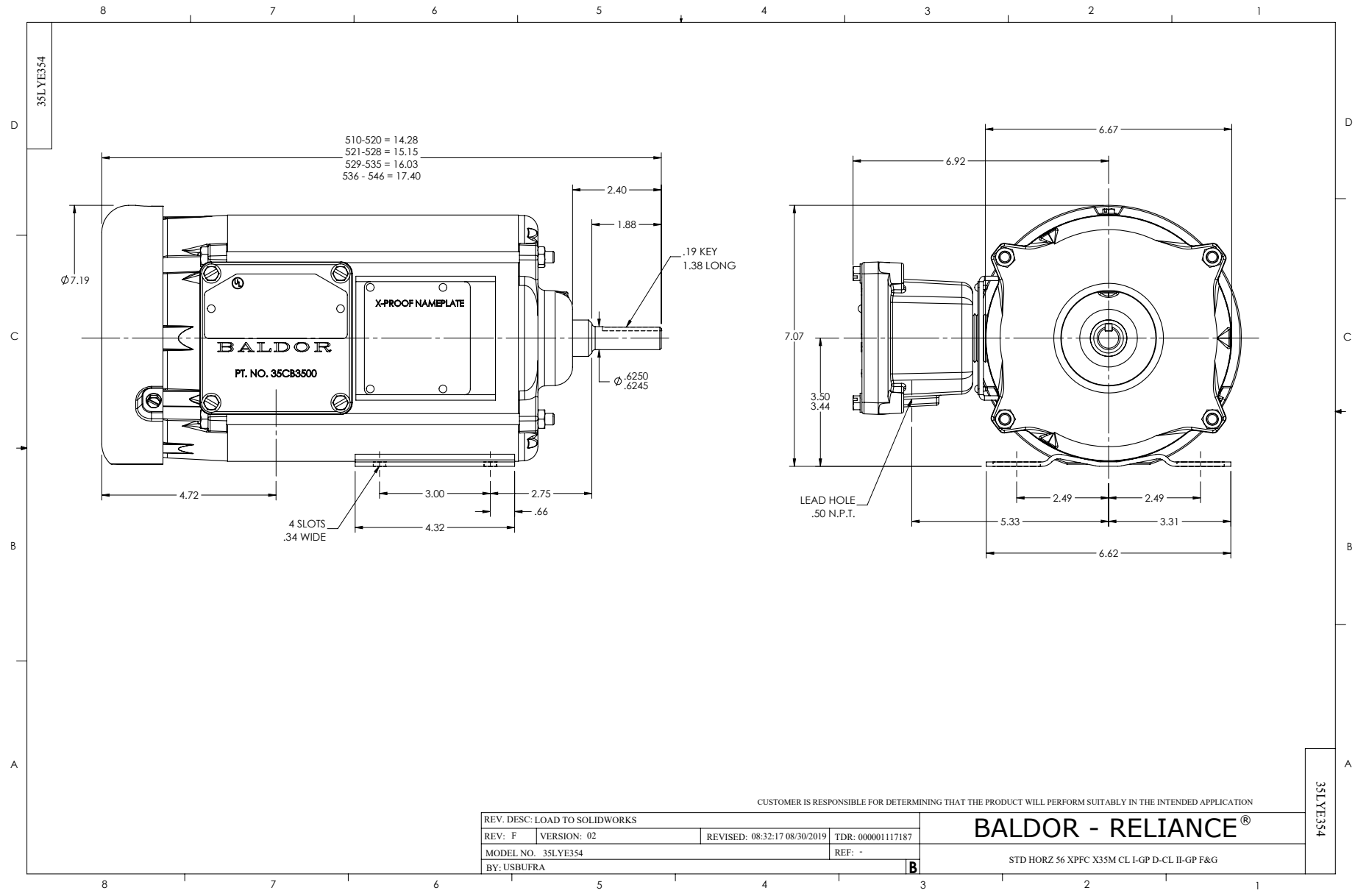
Winding: 35WGZ008-R002	**Type:** 3512M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	1.5 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			1.7-1.6/.8	**Breakdown Torque**	6 LB-FT
R.P.M.			1140	**Pull-up Torque**	4.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	4.6 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	4.1 A
Service Factor (S.F.)			1	**No-load Current**	0.7 A
NEMA Nom. Eff.	70	**Power Factor**	57	**Line-line Res. @ 25ºC**	56.6 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	32°C
				Locked-rotor Power Factor	72.4
				Rotor inertia	0.0712 LB-FT2

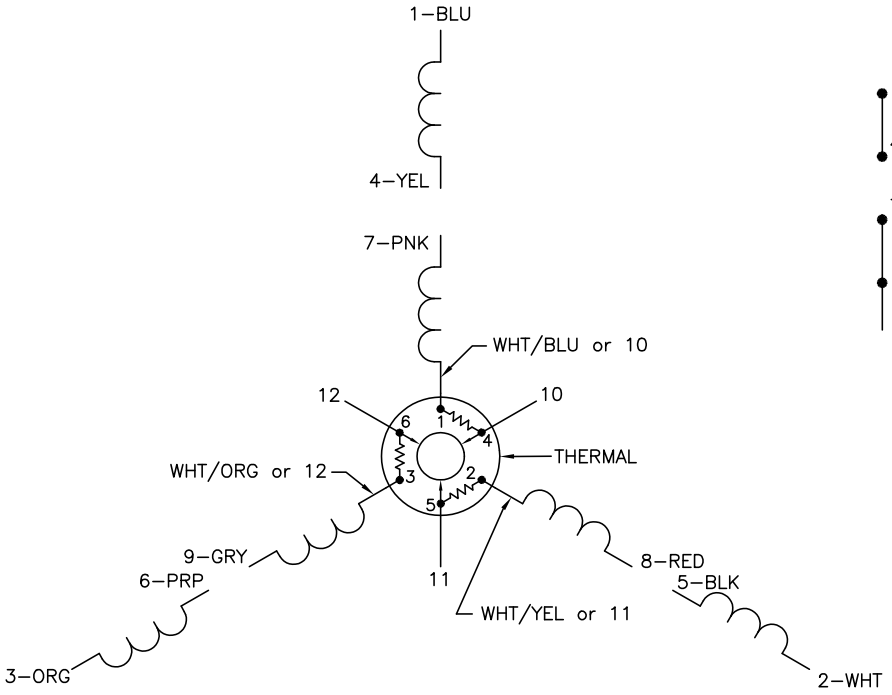
Load Characteristics 460 V, 60 Hz, 0.33 HP

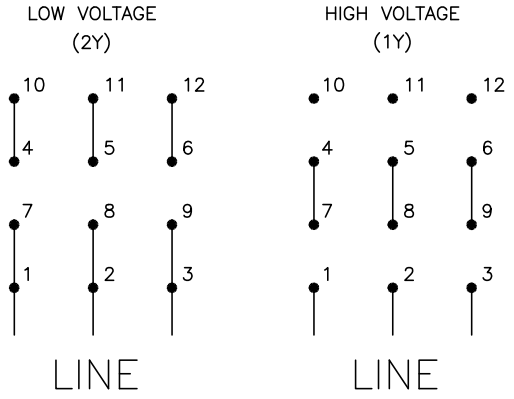
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	27	37	47	54	63	68
Efficiency	40.9	58	64.4	68.1	69.2	69
Speed	1190	1180	1171	1160	1150	1139
Line amperes	0.72	0.74	0.78	0.84	0.89	0.97


ABB Motors and Mechanical Inc.
WINDING # 35WGZ008
0.33 HP 3 PH 60 HZ 1140 RPM 460 V 3512M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=6 PU=4.5 LR=4.6 LRA=4.1
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.33 HP)
11/20/2026 ACPERF, record # 10398


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