ABB BALDOR RELIANCE

Customer information packet

M1721T

1.5/.67HP, 1735/1160RPM, 3PH, 60HZ, 182T, 352
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/1/2026 7:22:52 PM

Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
	.670 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	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	2.300 A @ 460.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	D
Type	AC
Mech. spec.	35L100
Base	
Status	PRD/A
Elec. spec.	35WGG358
Layout	35LYL100
Eff. date	07-27-2024
CD Diagram	CD0013
Poles	04/06
Leads	6#18
Proprietary	False
Created date	02-23-2023

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
	6
Overall Length	14.29 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1160 rpm
	1735 rpm
Speed Code	2S-2W-VT
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L											
CAT.NO.	M1721T										
SPEC.	35L100G358										
HP	1.5/.67										
VOLTS	460										
AMP	2.3/1.4										
RPM	1735/1160										
FRAME	182T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	-	**CLASS**	F				
NEMA-NOM-EFF		**PF**									
RATING	40C AMB-CONT										
CC											
DE	6206		**ODE**	6203							
ENCL	TEFC	**SN**									
	SFA 2.57										

Parts List

Part number	Description	Quantity
SA414937	SA 35L100G358	1.000 ea
RA406706	RA 35L100G358	1.000 ea
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122A00	MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,F	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3113A01	PU ENDPLATE, MACH W/206 BRG	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
HA3100A20	THRUBOLT 10-32 X 9.812	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0013	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
36-3301	C FACE KIT	A8
36EP1304A62SP	FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS	A8

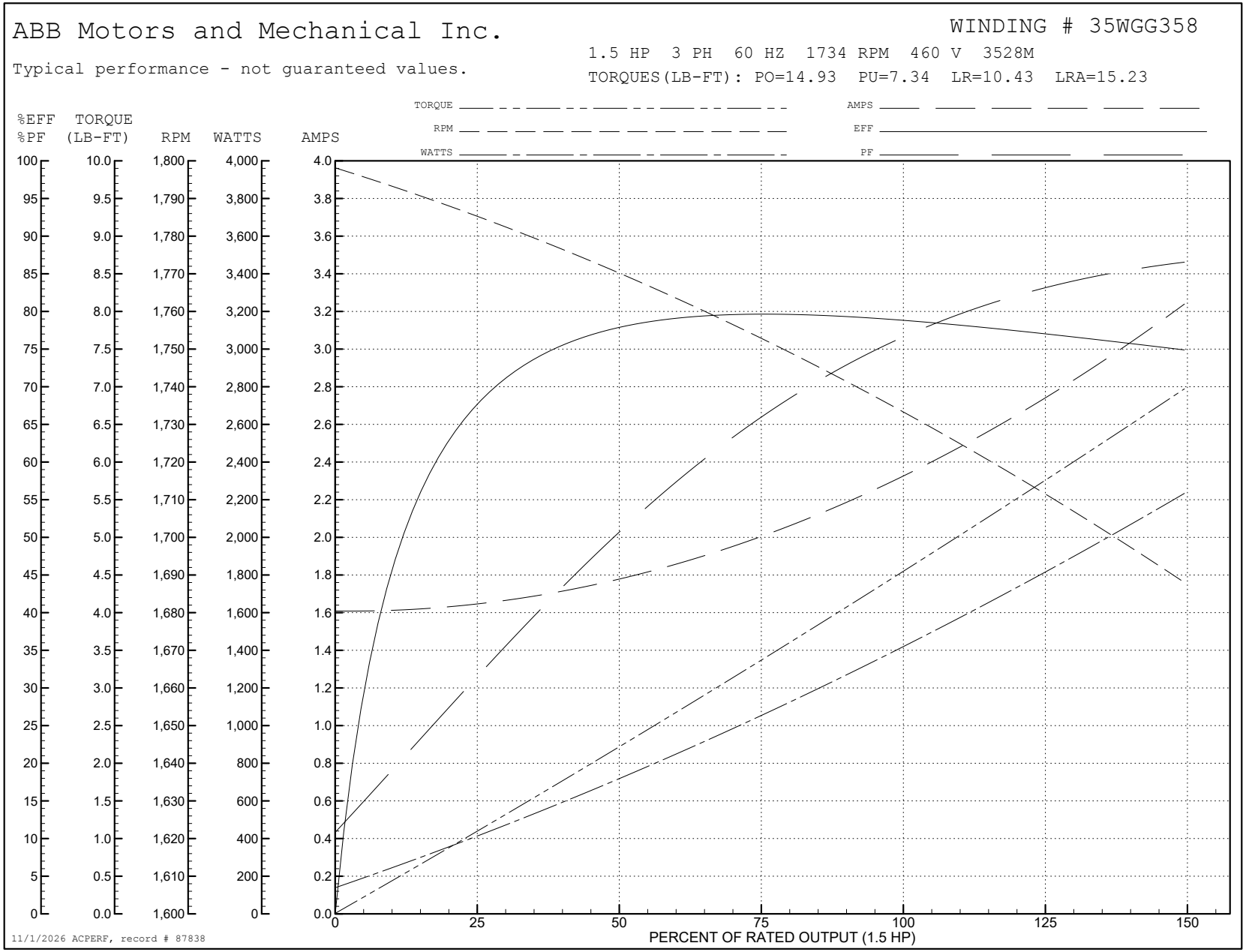
AC Induction Motor Performance Data
Record # 87838
Preliminary Data Sheet

Winding: 35WGG358-R001	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)		1.5/.67	**Full Load Torque**	4.54 LB-FT
Volts		460	**Start Configuration**	direct on line
Full Load Amps		2.3/1.4	**Breakdown Torque**	14.93 LB-FT
R.P.M.		1735/1160	**Pull-up Torque**	7.34 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	10.43 LB-FT
NEMA Design Code	- **KVA Code**	K	**Starting Current**	15.23 A
Service Factor (S.F.)		1.15	**No-load Current**	1.61 A
NEMA Nom. Eff.	0 **Power Factor**	0	**Line-line Res. @ 25ºC**	20.9 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	74°C
S.F. Amps			**Temp. Rise @ S.F. Load**	88°C
			Locked-rotor Power Factor	85.9
			Rotor inertia	0.202 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	51	66	76	83	87	80
Efficiency	66	76.7	79.8	79.2	77.3	74.6	78.1
Speed	1785	1769	1754	1734	1713	1687	1721
Line amperes	1.64	1.78	1.99	2.33	2.73	3.24	2.57


ABB Motors and Mechanical Inc.
WINDING # 35WGG358
1.5 HP 3 PH 60 HZ 1734 RPM 460 V 3528M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=14.93 PU=7.34 LR=10.43 LRA=15.23
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/1/2026 ACPERF, record # 87838

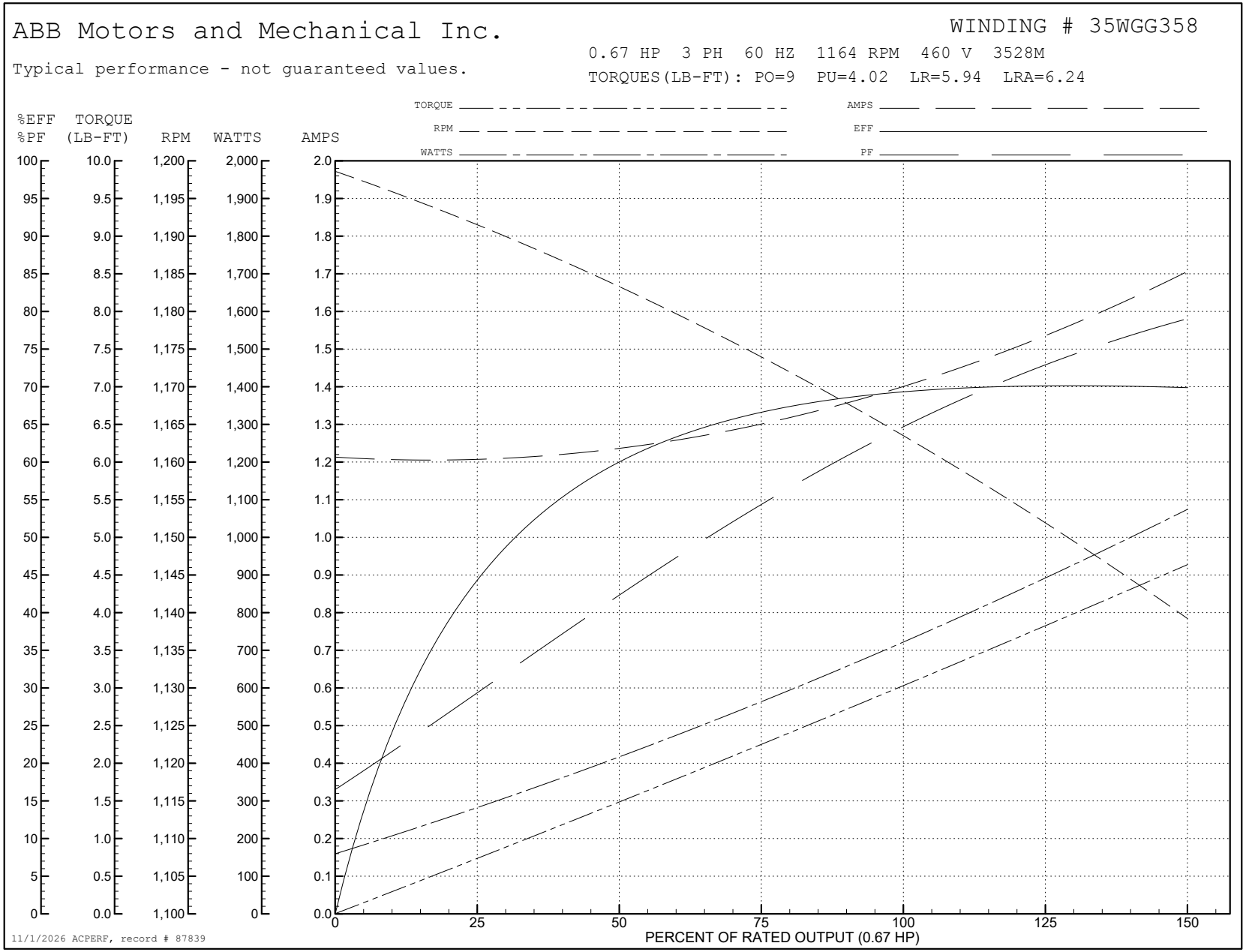
AC Induction Motor Performance Data
Record # 87839
Preliminary Data Sheet

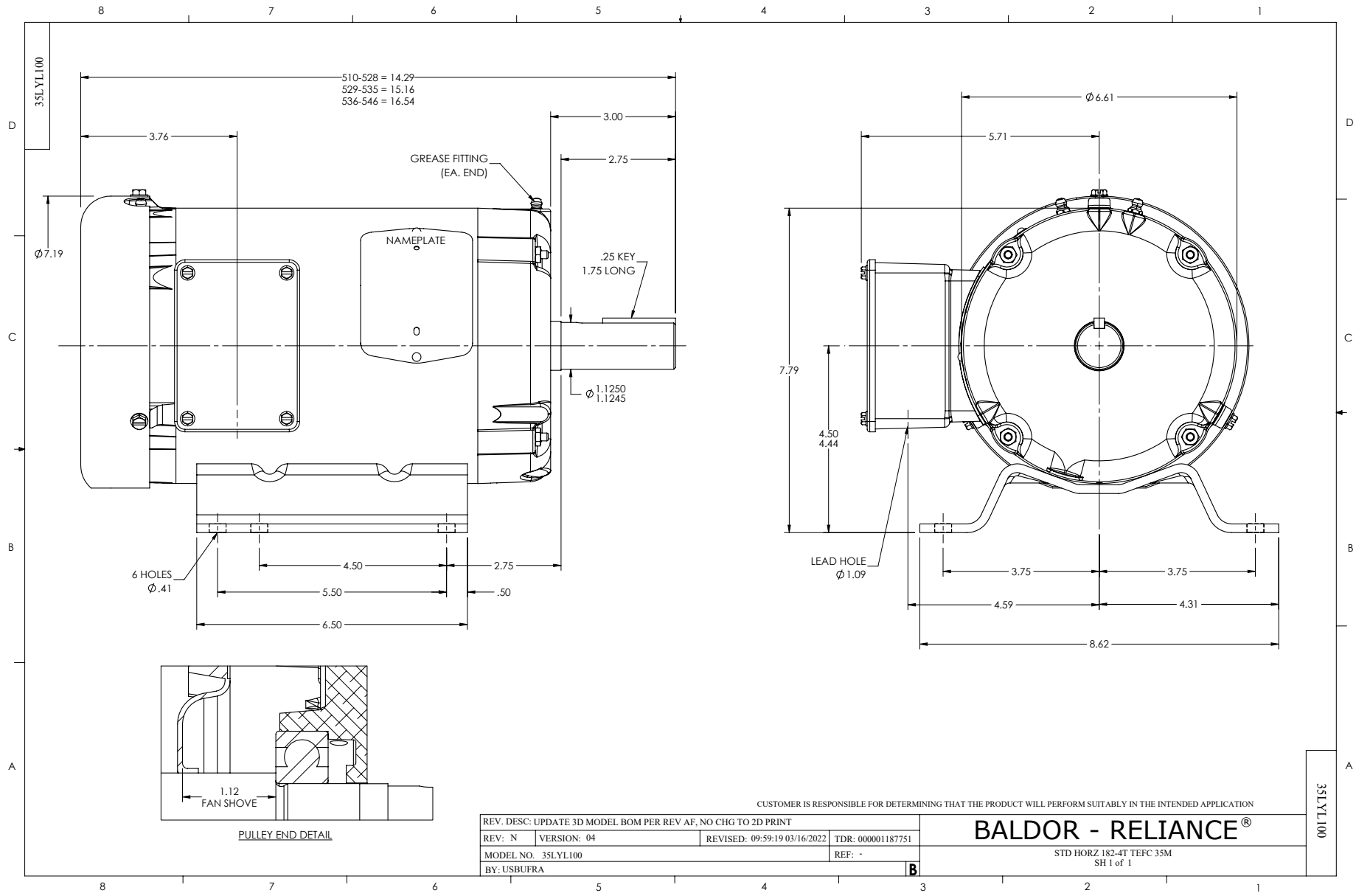
Winding: 35WGG358-R001	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)		1.5/.67	**Full Load Torque**	3.03 LB-FT
Volts		460	**Start Configuration**	direct on line
Full Load Amps		2.3/1.4	**Breakdown Torque**	9 LB-FT
R.P.M.		1735/1160	**Pull-up Torque**	4.02 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	5.94 LB-FT
NEMA Design Code	- **KVA Code**	K	**Starting Current**	6.24 A
Service Factor (S.F.)		1.15	**No-load Current**	1.21 A
NEMA Nom. Eff.	0 **Power Factor**	0	**Line-line Res. @ 25ºC**	53.3 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	
			Locked-rotor Power Factor	85.9
			Rotor inertia	0.202 lb-ft²

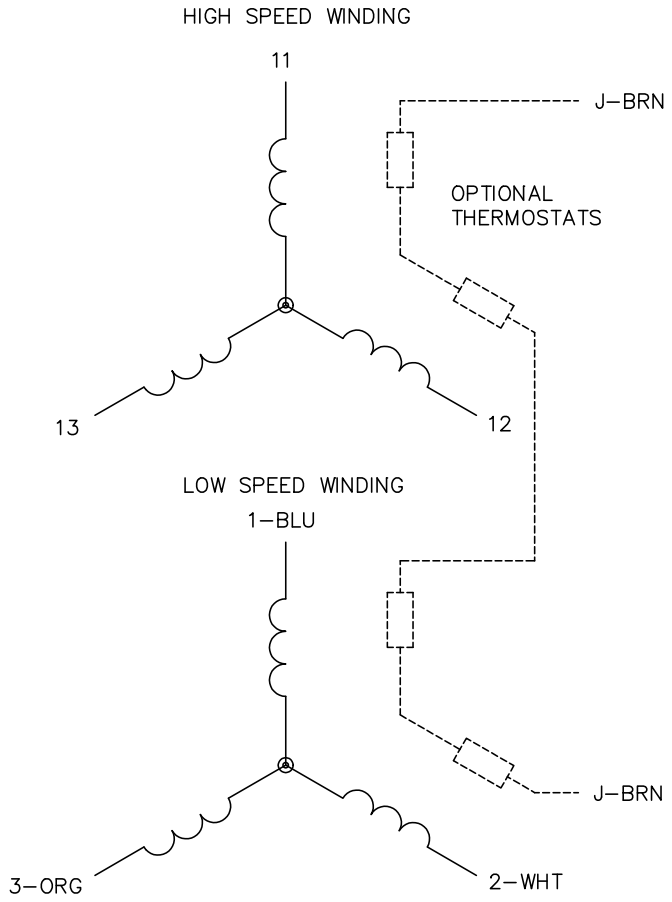
Load Characteristics 460 V, 60 Hz, 0.67 HP

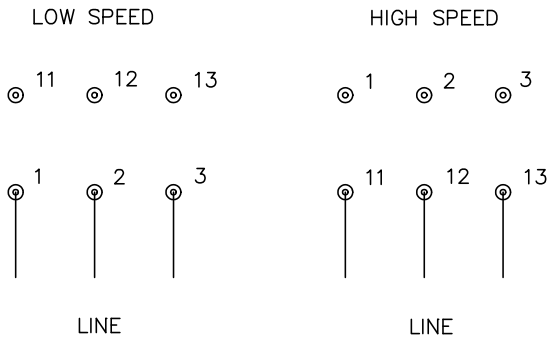
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	43	54	65	73	79	70
Efficiency	44.1	59.7	66.5	69.5	70.3	69.6	70
Speed	1191	1183	1174	1164	1152	1139	1157
Line amperes	1.21	1.24	1.3	1.4	1.53	1.71	1.48


ABB Motors and Mechanical Inc.
WINDING # 35WGG358
Typical performance - not guaranteed values.
0.67 HP 3 PH 60 HZ 1164 RPM 460 V 3528M
TORQUES(LB-FT): PO=9 PU=4.02 LR=5.94 LRA=6.24
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.67 HP)
11/1/2026 ACPERF, record # 87839


35LYL100
510-528 = 14.29
529-535 = 15.16
536-546 = 16.54
3.00
3.76
2.75
GREASE FITTING
(EA. END)
NAMEPLATE
Ø7.19
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
6 HOLES
Ø.41
4.50
2.75
5.50
.50
6.50
Ø6.61
5.71
7.79
4.50
4.44
LEAD HOLE
Ø1.09
3.75
3.75
4.59
4.31
8.62
1.12
FAN SHOVE
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV AF, NO CHG TO 2D PRINT
REV: N
VERSION: 04
REVISED: 09:59:19 03/16/2022
TDR: 000001187751
MODEL NO. 35LYL100
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 35M
SH 1 of 1
35LYL100

CD0013





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

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/22/99 8:50	TDR: 0171435
CD0013		FILE: AAA00005143	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 2–WINDING

CD0013