ABB BALDOR RELIANCE

Customer information packet

M1218

.5/.22HP, 1750/1170RPM, 3PH, 60HZ, 56, 3516M
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56
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	.500 HP @ 60 HZ
	.220 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	1.020 A @ 460.0 V
Design Code	B
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	0.7 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L

Part Detail

Revision	D
Type	AC
Mech. spec.	35B011
Base	
Status	PRD/A
Elec. spec.	35WGG351
Layout	35LYB011
Eff. date	07-02-2024
CD Diagram	CD0013
Poles	04/06
Leads	6#18 Y
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	3516M
Mounting Arrangement	F1
Number of Poles	4
	6
Overall Length	11.07 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	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1170 rpm
	1750 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.	M1218										
SPEC.	35B011G351G1										
HP	.5/.22										
VOLTS	460										
AMP	1.02/.7										
RPM	1750/1170										
FRAME	56		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	L	**DES**	B	**CLASS**		F			
NEMA-NOM-EFF		**PF**									
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	OPEN	**SN**									
	SFA 1.07/.72										

Accessories

Part number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

AC Induction Motor Performance Data
Record # 87818
Preliminary Data Sheet

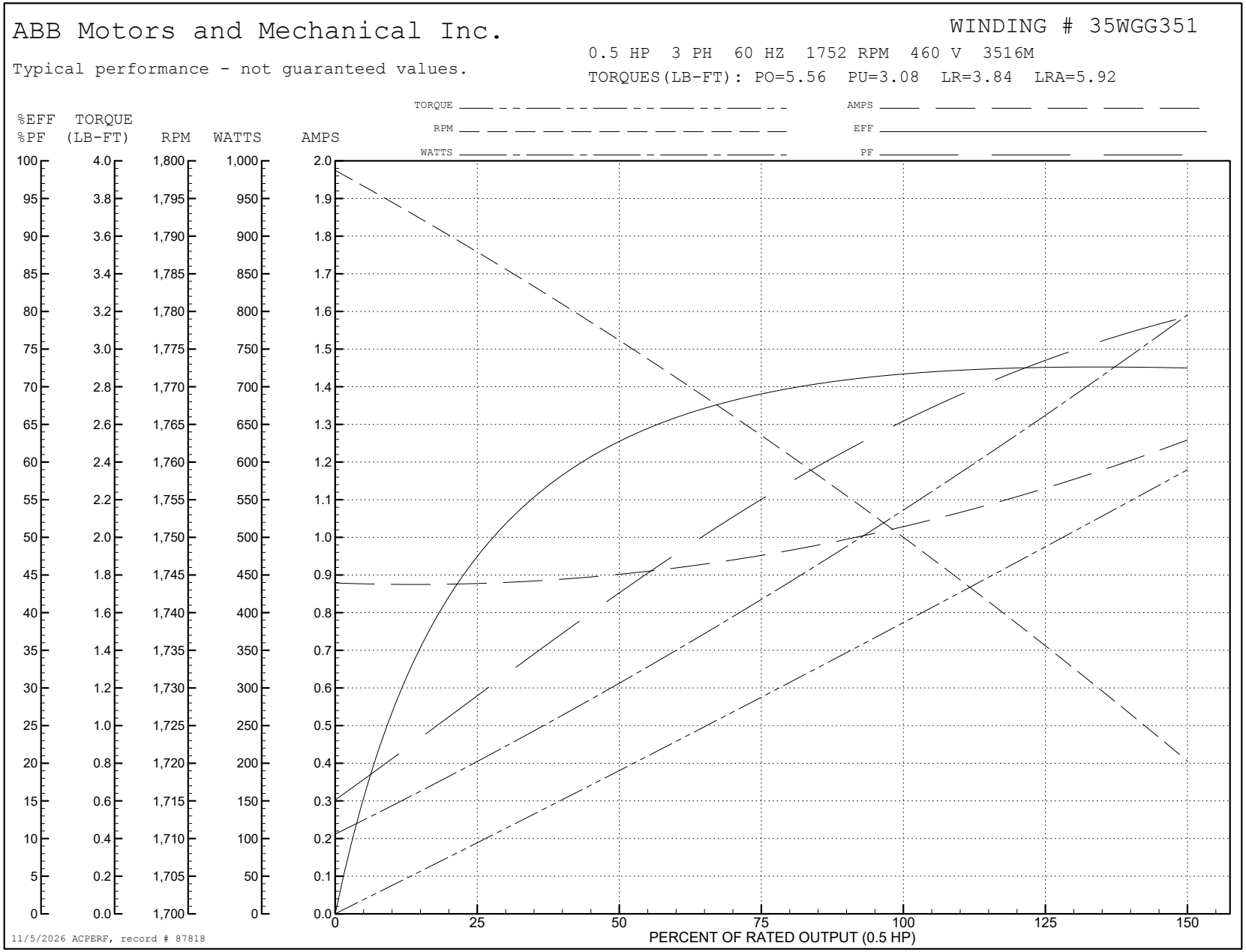
Winding: 35WGG351-R002	**Type:** 3516M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			.5/.22
Volts			460
Full Load Amps			1.02/.7
R.P.M.			1750/1170
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			1.07/.72

460 V, 60 Hz: High Speed Connection	
Full Load Torque	1.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	5.56 LB-FT
Pull-up Torque	3.08 LB-FT
Locked-rotor Torque	3.84 LB-FT
Starting Current	5.92 A
No-load Current	0.88 A
Line-line Res. @ 25ºC	61.7 Ω
Temp. Rise @ Rated Load	45°C
Temp. Rise @ S.F. Load	50°C
Locked-rotor Power Factor	92.3
Rotor inertia	0.116 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	42	54	64	73	79	69
Efficiency	46.8	62.3	68.5	71.6	72.5	72.4	72.1
Speed	1788	1776	1765	1752	1738	1720	1744
Line amperes	0.875	0.899	0.949	1.02	1.11	1.26	1.07


ABB Motors and Mechanical Inc.
WINDING # 35WGG351
Typical performance - not guaranteed values.
0.5 HP 3 PH 60 HZ 1752 RPM 460 V 3516M
TORQUES(LB-FT): PO=5.56 PU=3.08 LR=3.84 LRA=5.92
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/5/2026 ACPERF, record # 87818

AC Induction Motor Performance Data
Record # 87819
Preliminary Data Sheet

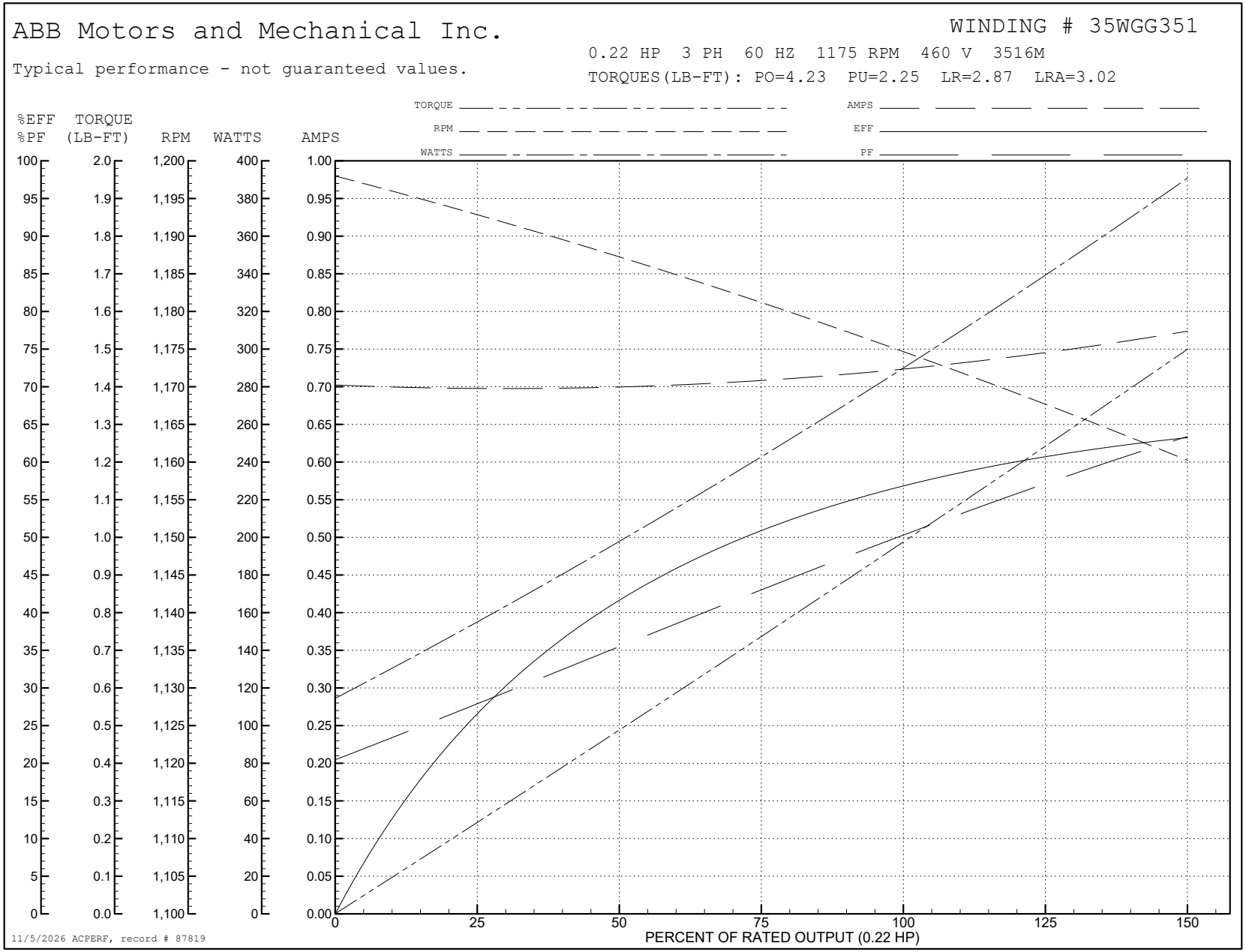
Winding: 35WGG351-R002	**Type:** 3516M	**Enclosure:** OPEN

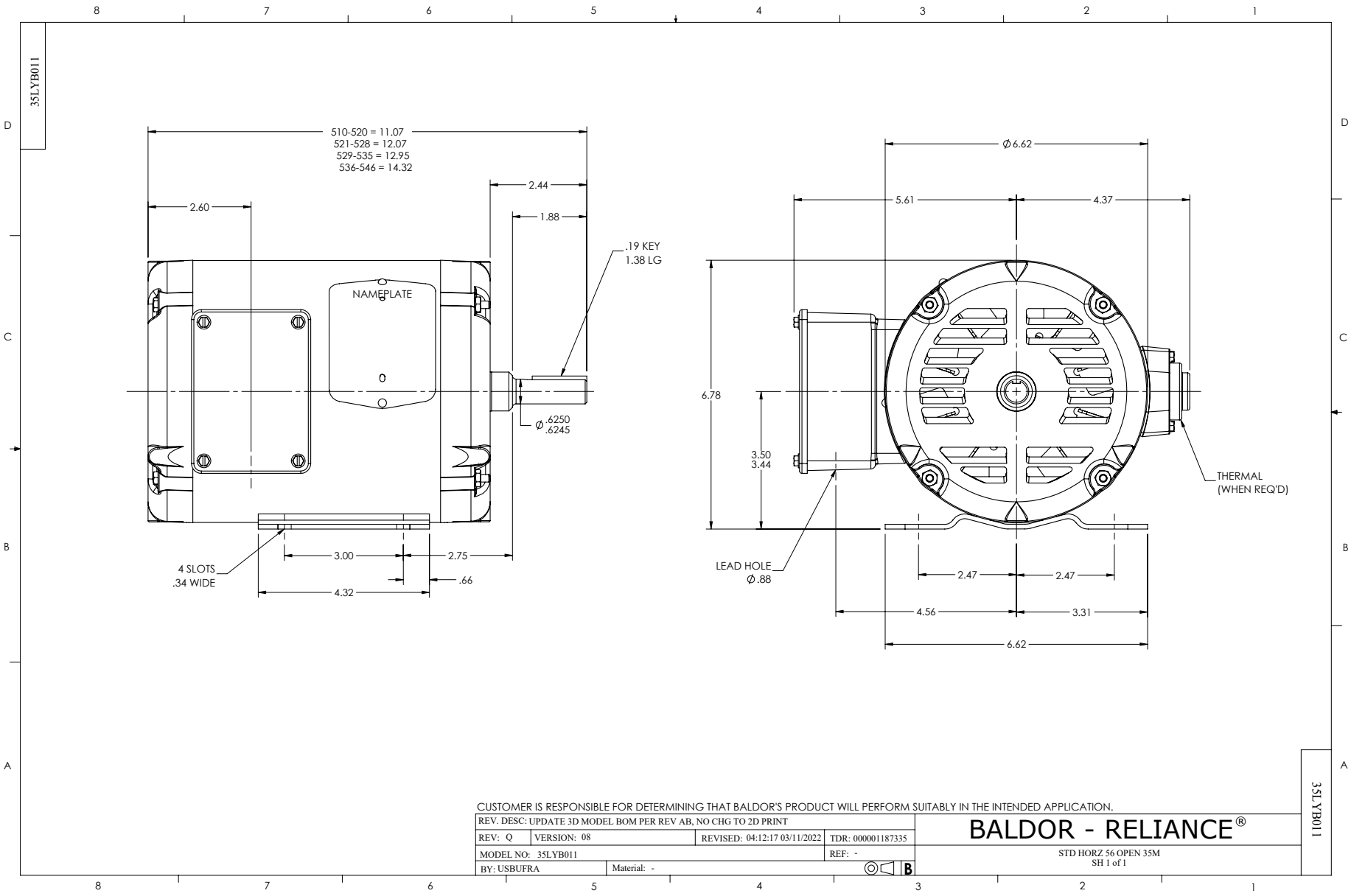
Nameplate Data			
Rated Output (HP)			.5/.22
Volts			460
Full Load Amps			1.02/.7
R.P.M.			1750/1170
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			1.07/.72

460 V, 60 Hz: Low Speed Connection	
Full Load Torque	0.985 LB-FT
Start Configuration	direct on line
Breakdown Torque	4.23 LB-FT
Pull-up Torque	2.25 LB-FT
Locked-rotor Torque	2.87 LB-FT
Starting Current	3.02 A
No-load Current	0.702 A
Line-line Res. @ 25ºC	116 Ω
Temp. Rise @ Rated Load	42°C
Temp. Rise @ S.F. Load	44°C
Locked-rotor Power Factor	90.5
Rotor inertia	0.116 lb-ft²

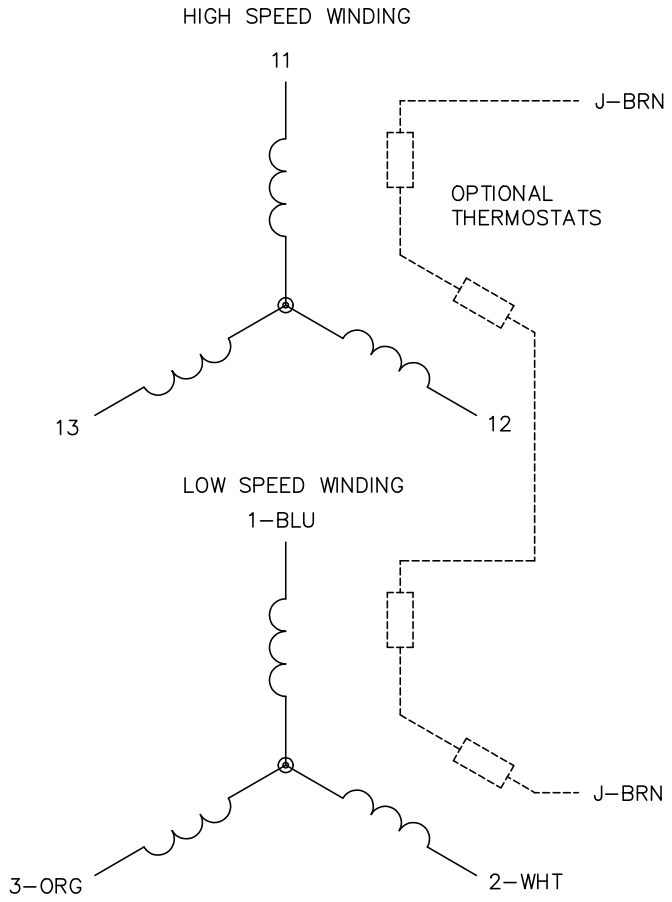
Load Characteristics 460 V, 60 Hz, 0.22 HP

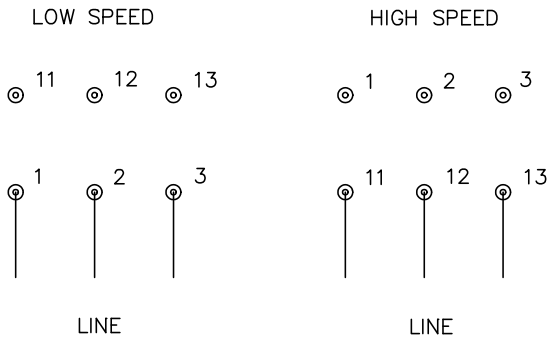
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	28	35	43	50	57	63	54
Efficiency	26.7	41.5	50.8	56.8	60.7	63	59.1
Speed	1193	1187	1181	1175	1168	1160	1171
Line amperes	0.698	0.7	0.708	0.723	0.745	0.774	0.736


ABB Motors and Mechanical Inc.
WINDING # 35WGG351
0.22 HP 3 PH 60 HZ 1175 RPM 460 V 3516M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=4.23 PU=2.25 LR=2.87 LRA=3.02
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.22 HP)
11/5/2026 ACPERF, record # 87819


35LYB011
510-520 = 11.07
521-528 = 12.07
529-535 = 12.95
536-546 = 14.32
2.44
2.60
1.88
.19 KEY
1.38 LG
NAMEPLATE
Ø .6250
.6245
4 SLOTS
.34 WIDE
3.00
2.75
.66
4.32
Ø 6.62
5.61
4.37
6.78
3.50
3.44
THERMAL
(WHEN REQ'D)
LEAD HOLE
Ø .88
2.47
2.47
4.56
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: UPDATE 3D MODEL BOM PER REV AB, NO CHG TO 2D PRINT
REV: Q
VERSION: 08
REVISED: 04:12:17 03/11/2022
TDR: 000001187335
MODEL NO: 35LYB011
REF: -
BY: USBUFRA
Material: -
BALDOR - RELIANCE®
STD HORZ 56 OPEN 35M
SH 1 of 1
35LYB011

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