ABB BALDOR RELIANCE

Customer information packet

M1019

.75/.33HP, 1730/1165RPM, 3PH, 60HZ, 56, 3524M
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	.750 HP @ 60 HZ
	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 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	2.600 A @ 230.0 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	1.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	E
Type	AC
Mech. spec.	35B011
Base	
Status	PRD/A
Elec. spec.	35WGG349
Layout	35LYB011
Eff. date	05-22-2025
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	3524M
Mounting Arrangement	F1
Number of Poles	4
	6
Overall Length	12.07 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	1165 rpm
	1730 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.	M1019										
SPEC.	35B011G349G1										
HP	.75/.33										
VOLTS	230										
AMP	2.6/1.8										
RPM	1730/1165										
FRAME	56		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF		**PF**									
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	OPEN	**SN**									
	SFA 2.77										

Accessories

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

AC Induction Motor Performance Data
Record # 87807
Preliminary Data Sheet

Winding: 35WGG349-R001	**Type:** 3524M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			.75/.33
Volts			230
Full Load Amps			2.6/1.8
R.P.M.			1730/1165
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT

230 V, 60 Hz: High Speed Connection	
Full Load Torque	2.28 LB-FT
Start Configuration	direct on line
Breakdown Torque	7.79 LB-FT
Pull-up Torque	4.68 LB-FT
Locked-rotor Torque	6.1 LB-FT
Starting Current	16.24 A
No-load Current	1.81 A
Line-line Res. @ 25ºC	10.2 Ω
Temp. Rise @ Rated Load	
Locked-rotor Power Factor	89.7
Rotor inertia	0.173 lb-ft²

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	52	67	74	81	85	78
Efficiency	54.4	68.2	72.9	74.1	73.4	71.3	73.7
Speed	1783	1768	1752	1733	1709	1682	1719
Line amperes	1.9	2.06	2.21	2.56	2.91	3.35	2.77

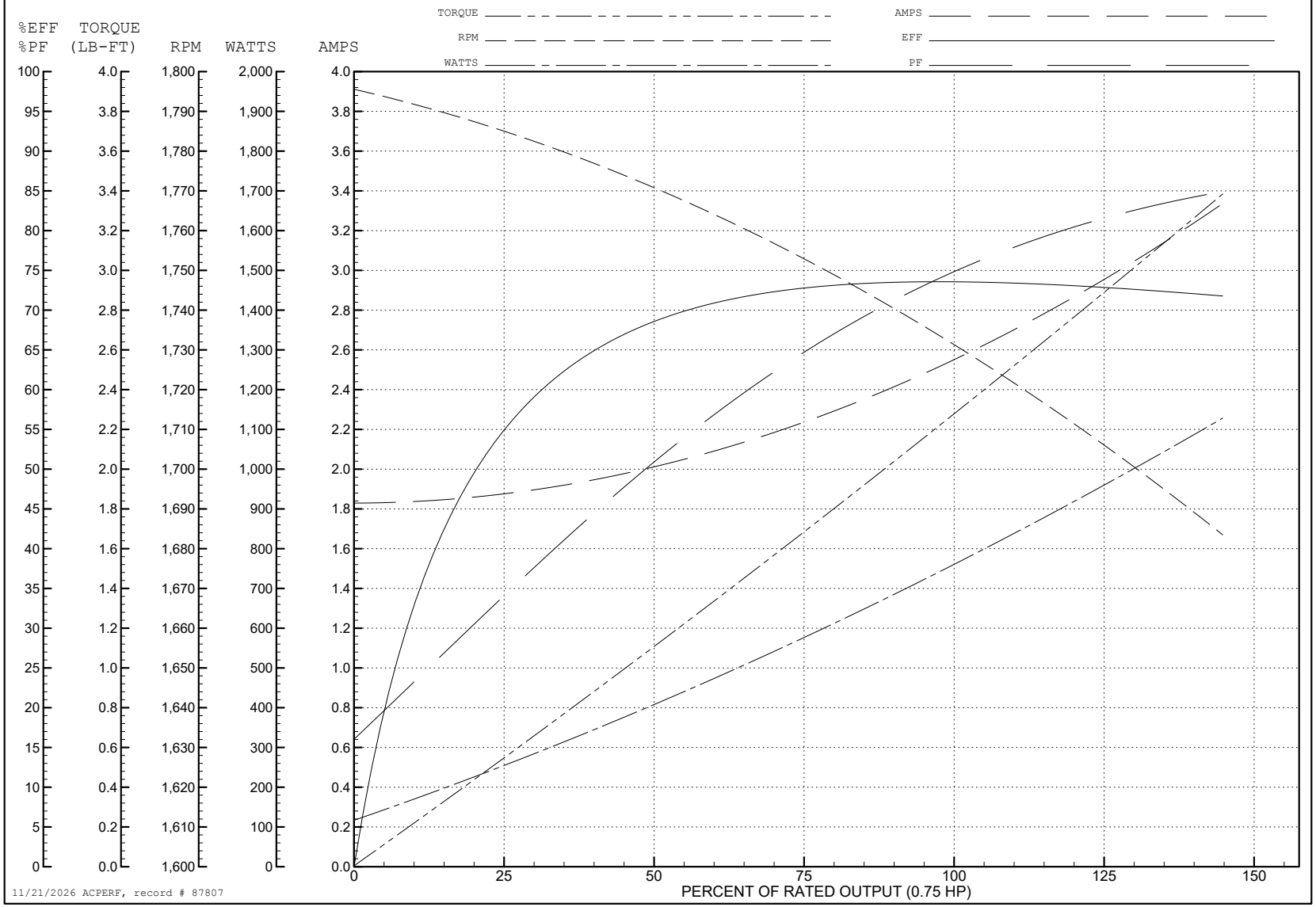
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WINDING # 35WGG349

0.75 HP 3 PH 60 HZ 1733 RPM 230 V 3524M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=7.79 PU=4.68 LR=6.1 LRA=16.24



AC Induction Motor Performance Data
Record # 87808
Preliminary Data Sheet

Winding: 35WGG349-R001	**Type:** 3524M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			.75/.33
Volts			230
Full Load Amps			2.6/1.8
R.P.M.			1730/1165
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT

230 V, 60 Hz: Low Speed Connection	
Full Load Torque	1.48 LB-FT
Start Configuration	direct on line
Breakdown Torque	6.14 LB-FT
Pull-up Torque	2.77 LB-FT
Locked-rotor Torque	4.09 LB-FT
Starting Current	8.58 A
No-load Current	1.71 A
Line-line Res. @ 25ºC	19.7 Ω
Temp. Rise @ Rated Load	
Locked-rotor Power Factor	88.2
Rotor inertia	0.173 lb-ft²

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	36	45	53	61	67	58
Efficiency	34.1	50.2	59	64.1	67	68.5	65.8
Speed	1193	1187	1181	1175	1168	1160	1171
Line amperes	1.71	1.72	1.76	1.82	1.9	2.01	1.87

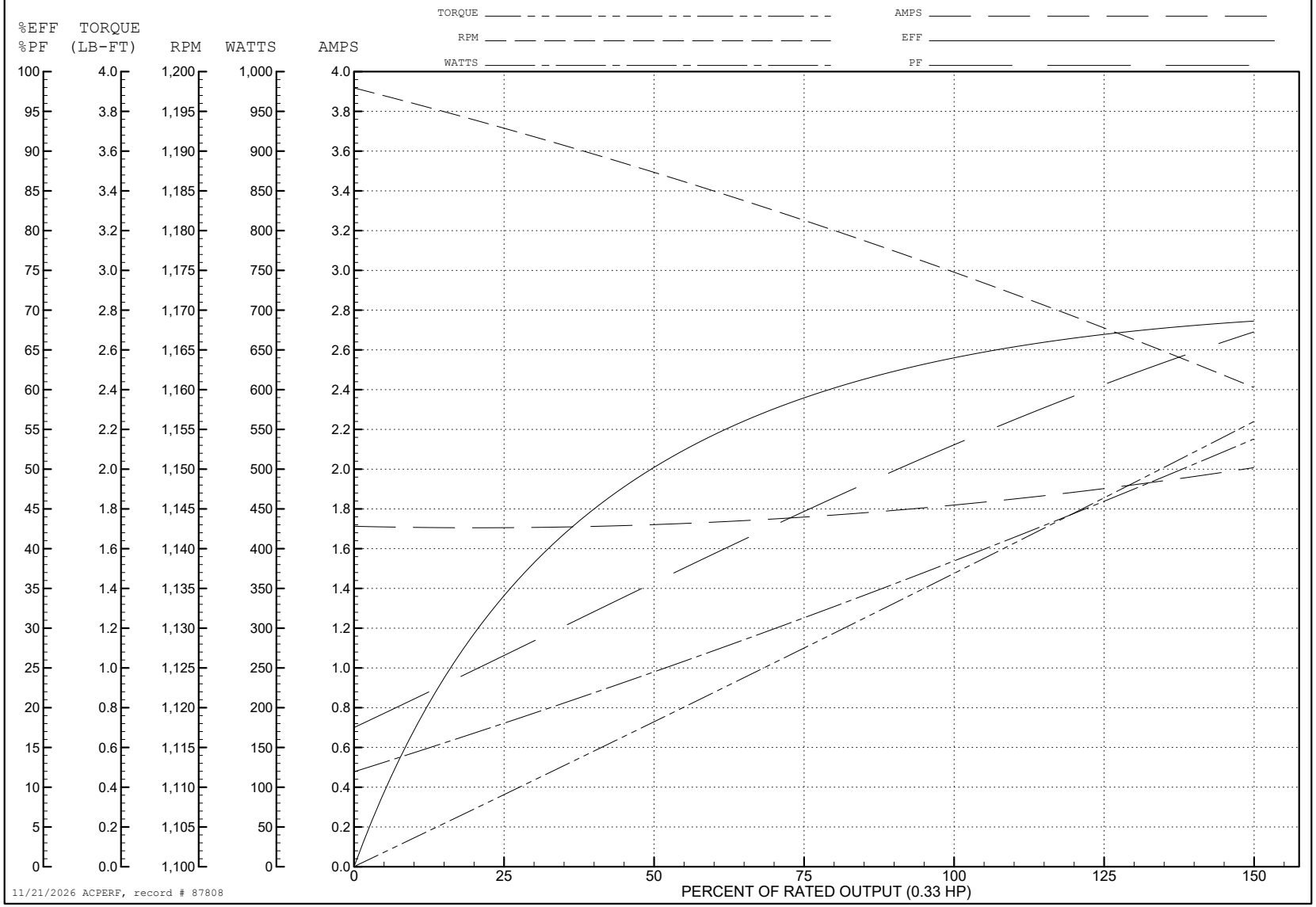
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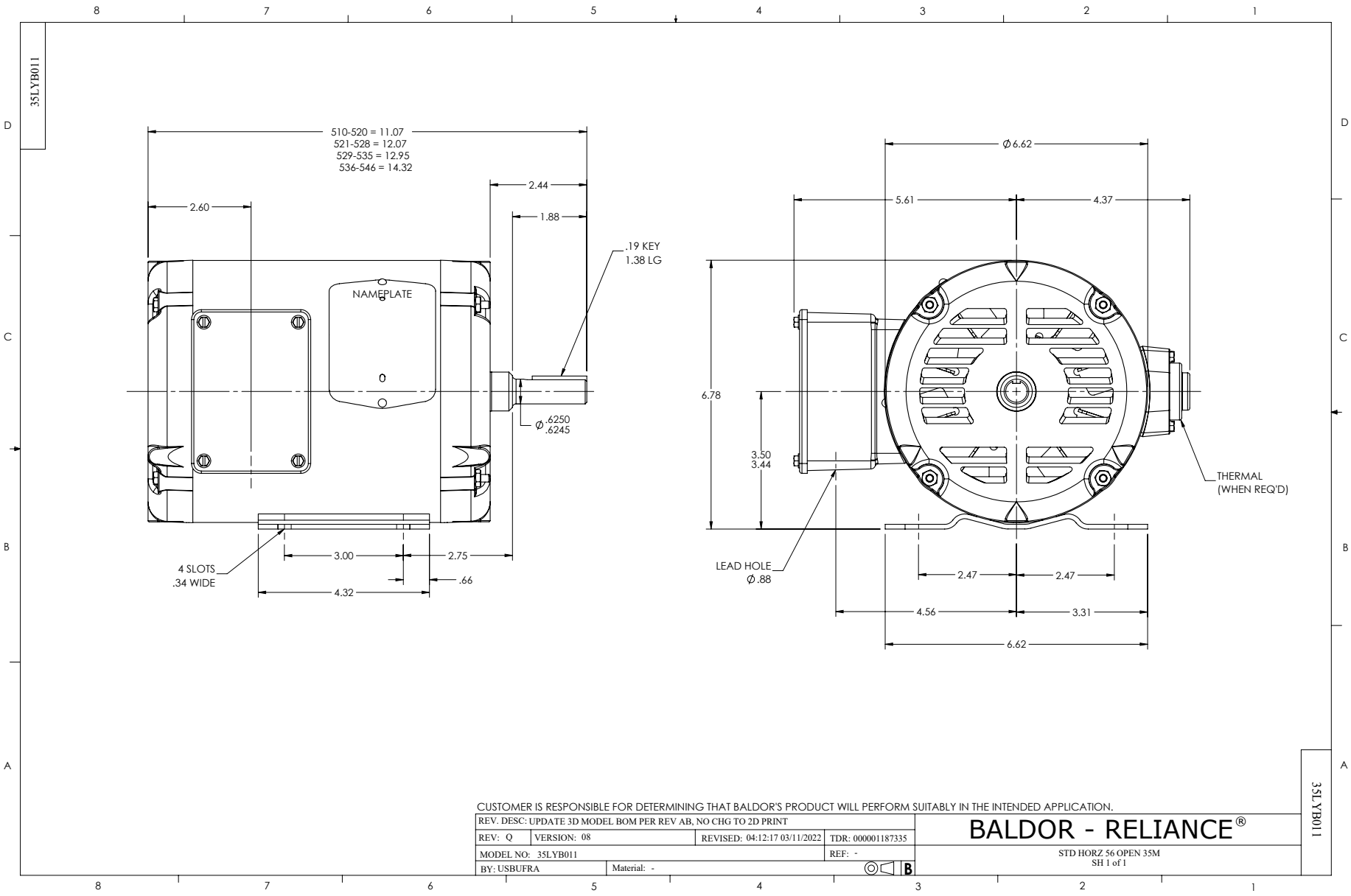
WINDING # 35WGG349

0.33 HP 3 PH 60 HZ 1175 RPM 230 V 3524M

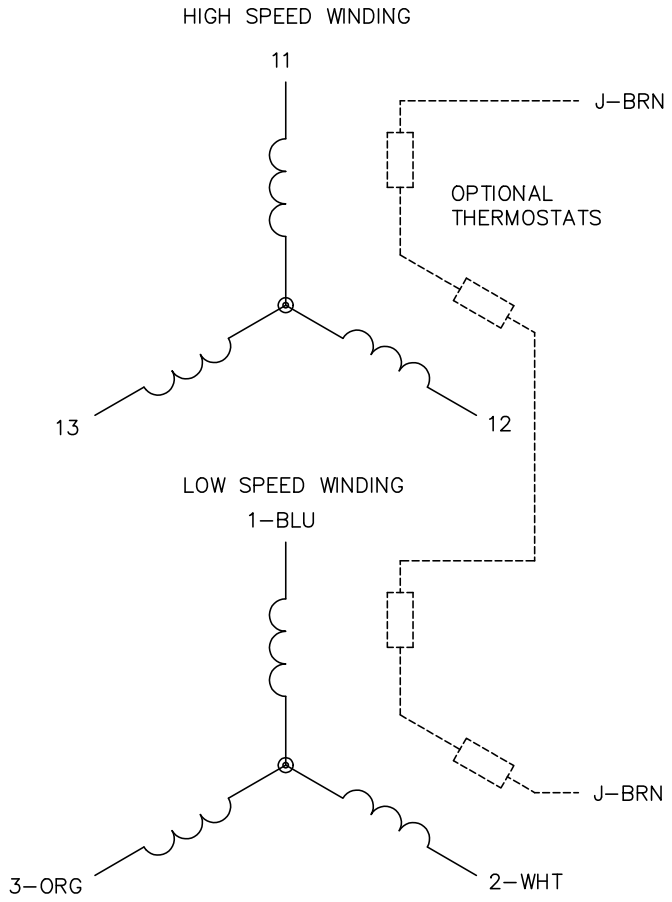
Typical performance - not guaranteed values.

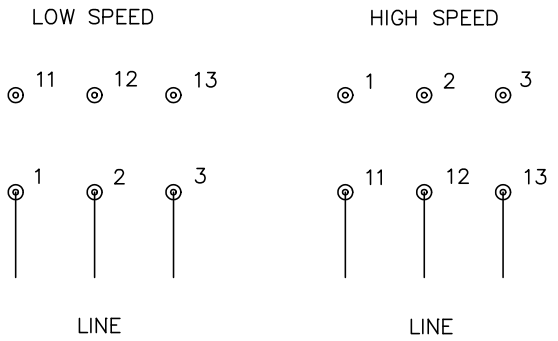
TORQUES(LB-FT): PO=6.14 PU=2.77 LR=4.09 LRA=8.58




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: -
B
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