ABB BALDOR RELIANCE

Customer information packet

CJL545A

1HP, 1725RPM, 1PH, 60HZ, 56J, 1920L, OPEN, F1

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Specifications

Enclosure	OPEN
Frame	56J
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
Agency Approvals	CSA
	UR
	CE
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	13.400 A @ 115.0 V
	6.700 A @ 230.0 V
	7.400 A @ 208.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.7 a

Part Detail

Revision	Y
Type	AC
Mech. spec.	19B103
Base	
Status	NLA/A
Elec. spec.	19WGW056
Layout	19LYB103
Eff. date	06-08-2018
CD Diagram	CD0203
Poles	04
Leads	4#16 A&J,1#18 B PH,1#14 #1TH
Proprietary	False
Created date	01-01-0001

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	1920L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.84 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	No Slinger
Speed	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Winding Thermal 2	None

Nameplate

NP1986A02									
CAT.NO.	CJL545A			**ENCL**	OPEN				
SPEC.	19B103W056			**FRAME**	56J				
HP	1								
VOLTS	115/230								
AMPS	13.4/6.7								
RPM	1725								
HZ	60	**PH**	1	**CL**	F				
SER.F.	1.15	**DES**	N	**CODE**	K				
FL EFF	66	**PF**	72						
RATING	40C AMB-CONT								
SF AMP						**USABLE AT 208V**	N/A		
SER.									
MANUAL	N	**AUTO**	Y	**NONE**	N				
BLANK									

AC Induction Motor Performance Data
Record # 61254
Typical performance - not guaranteed values

Winding: 19WGW056-R002	**Type:** 1920L	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	2.97 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			13.4/6.7	**Breakdown Torque**	6.73 LB-FT
R.P.M.			1725	**Pull-up Torque**	5.7 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	8.32 LB-FT
NEMA Design Code	N	**KVA Code**	K	**Starting Current**	70 A
Service Factor (S.F.)			1.15	**No-load Current**	9.3 A
NEMA Nom. Eff.	66	**Power Factor**	72	**Line-line Res. @ 25ºC**	0.778 Ω A Ph 1.82 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
				Locked-rotor Power Factor	96.8
				Rotor inertia	0.119 LB-FT2

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	52	65	74	81	84	78
Efficiency	48.9	61.4	65.4	65.9	63	59.1	64.2
Speed	1782	1768	1752	1733	1704	1670	1716
Line amperes	9.42	10.06	11.4	13.04	15.68	18.68	14.6

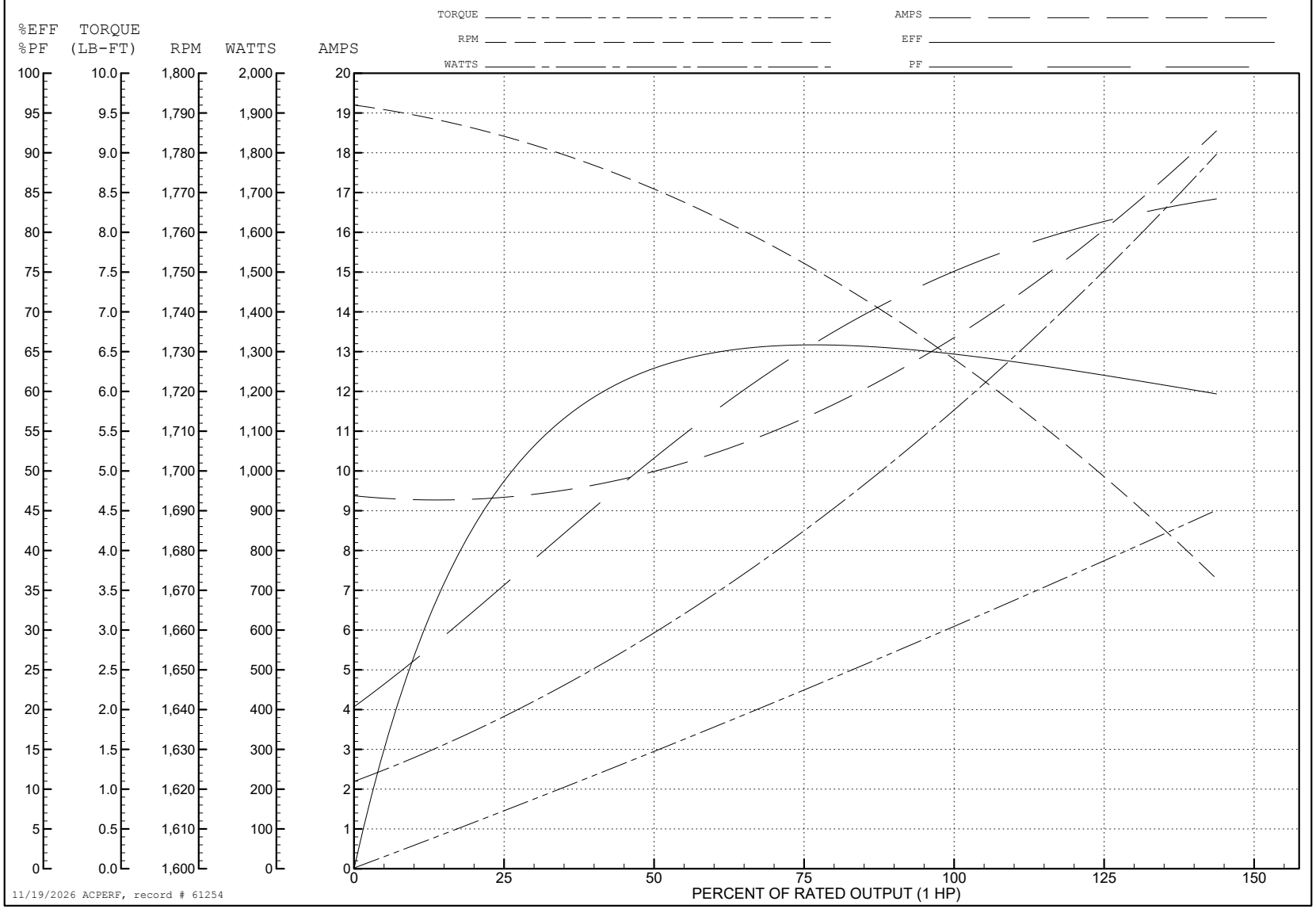
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WINDING # 19WGW056

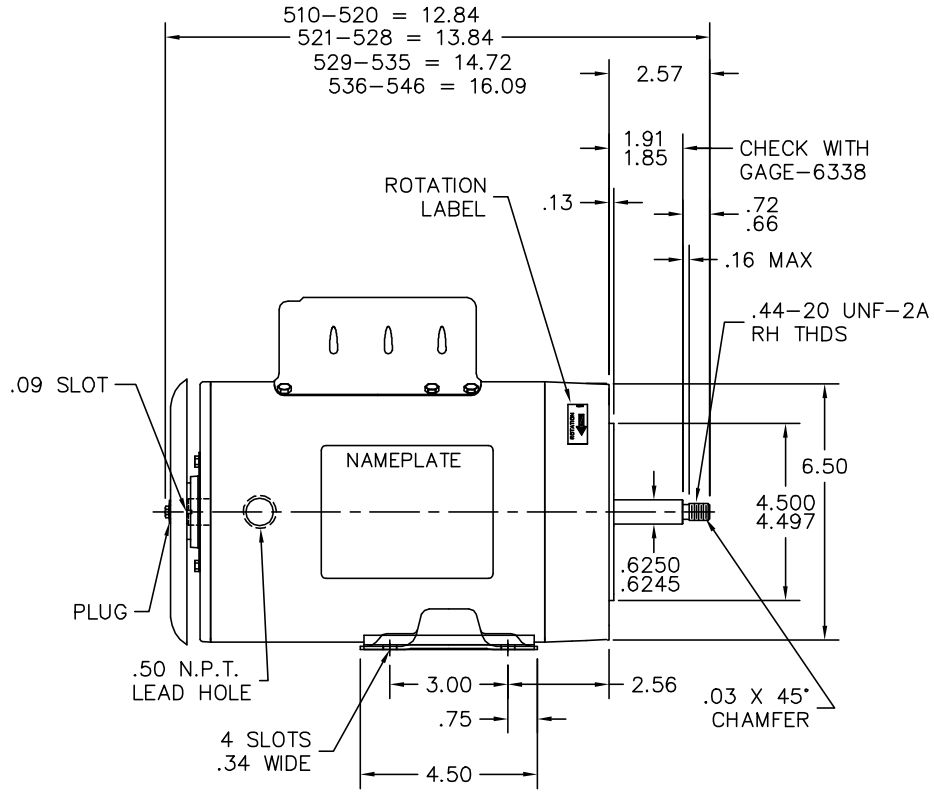
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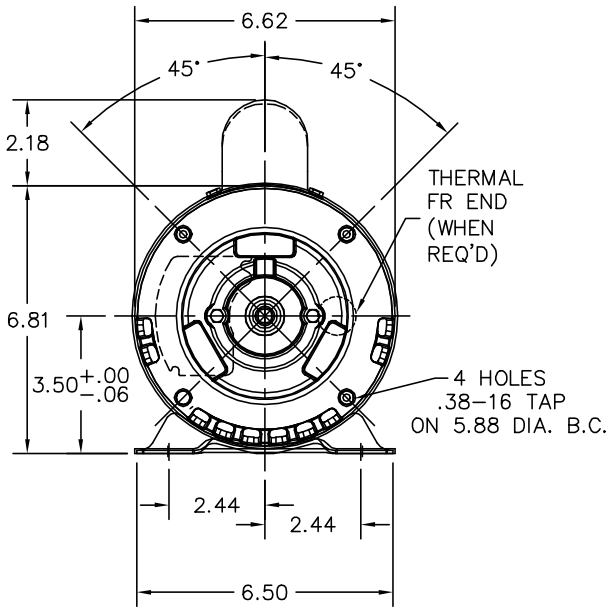
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=6.73 PU=5.7 LR=8.32 LRA=70



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19LYB103

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

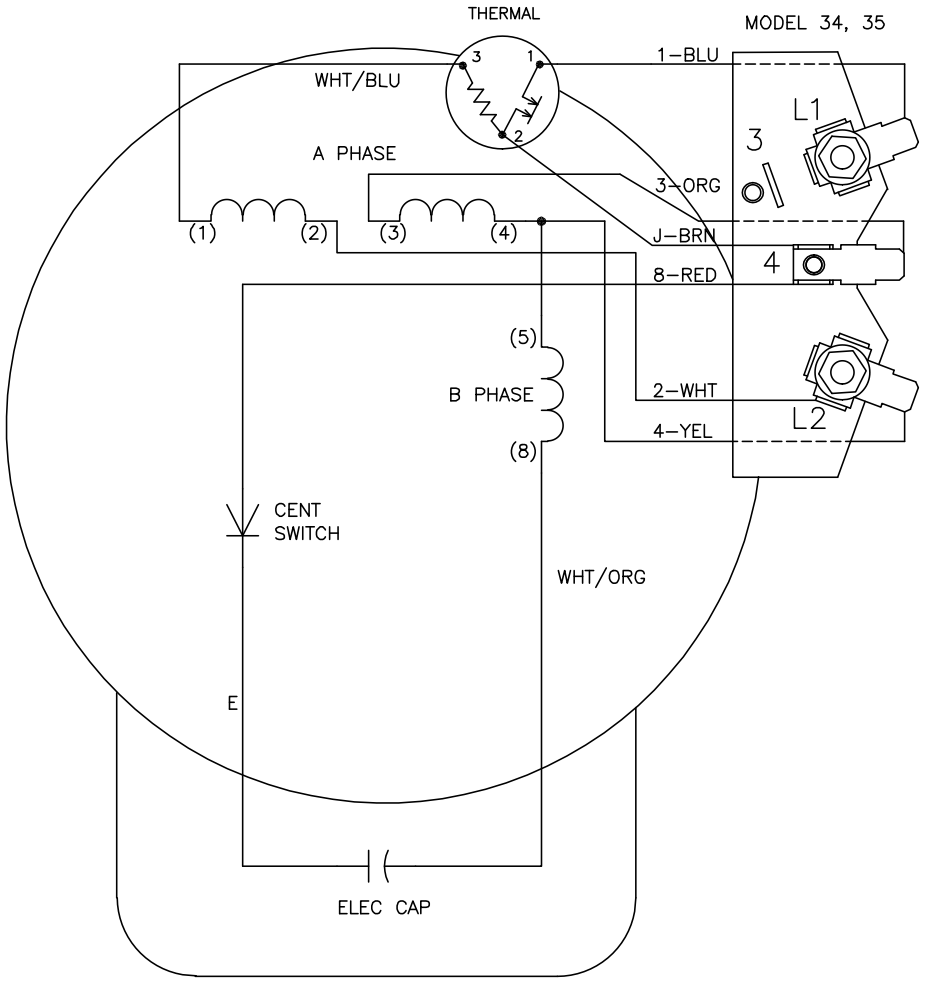
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BALDOR

HORZ 56J OPEN 19L W/DRIP COVER,TERM PANEL,& .44–20 THDS.

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CD0203



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.

   LOW VOLTAGE: CONNECT AS SHOWN.

   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3.
   MOVE LEAD 2 TO TERM. 4.

2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE 5 AND 8 INTERNALLY FOR OPPOSITE STANDARD ROTATION.

3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.

4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

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REV. DESC: REMOVE MODEL 17 CONNECTION		
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BALDOR - RELIANCE®

TYPE L, DV, FIX, THERMAL, TERMINAL PLATE

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