ABB BALDOR RELIANCE

Customer information packet

19B106W048

3HP, 3450RPM, 1PH, 60HZ, 56C, 1935LC, OPEN, F1

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Specifications

Enclosure	ODP
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Output @ Frequency	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	CE
	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	15.900 A @ 208.0 V
	13.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
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	13.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	V
Type	AC
Mech. spec.	19B106
Base	
Status	NLA/A
Elec. spec.	19WGW048
Layout	19LYB106
Eff. date	04-10-2015
CD Diagram	CD0225
Poles	02
Leads	2#14 A PH,3#18 B&J
Proprietary	False
Created date	06-26-2007

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	2 @ 14 AWG, A PH
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	1935LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.57 IN
Power Factor	93
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected OPP STD
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP1986A							
CAT.NO.				**ENCL**	OPEN		
SPEC.	19B106W048			**FRAME**	56C		
HP	3						
VOLTS	230						
AMPS	13						
RPM	3450						
HZ	60	**PH**	1	**CL**	B		
SER.F.	1.15	**DES**	L	**CODE**	K		
FL EFF	82.5	**PF**	93				
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 # 6151
Typical performance - not guaranteed values

Winding: 19WGW048-R001	**Type:** 1935LC	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	4.5 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			13	**Breakdown Torque**	15.5 LB-FT
R.P.M.			3450	**Pull-up Torque**	13 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	13 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	108 A
Service Factor (S.F.)			1.15	**No-load Current**	5 A
NEMA Nom. Eff.	82.5	**Power Factor**	93	**Line-line Res. @ 25ºC**	0.614 Ω A Ph 2.53 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	49°C
S.F. Amps				**Temp. Rise @ S.F. Load**	62°C

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	72	85	90	93	94	94	0
Efficiency	68.5	78.5	82	82.5	82.5	81	0
Speed	3578	3556	3535	3517	3487	3450	0
Line amperes	6	7.9	10.3	13	16	19	14.8

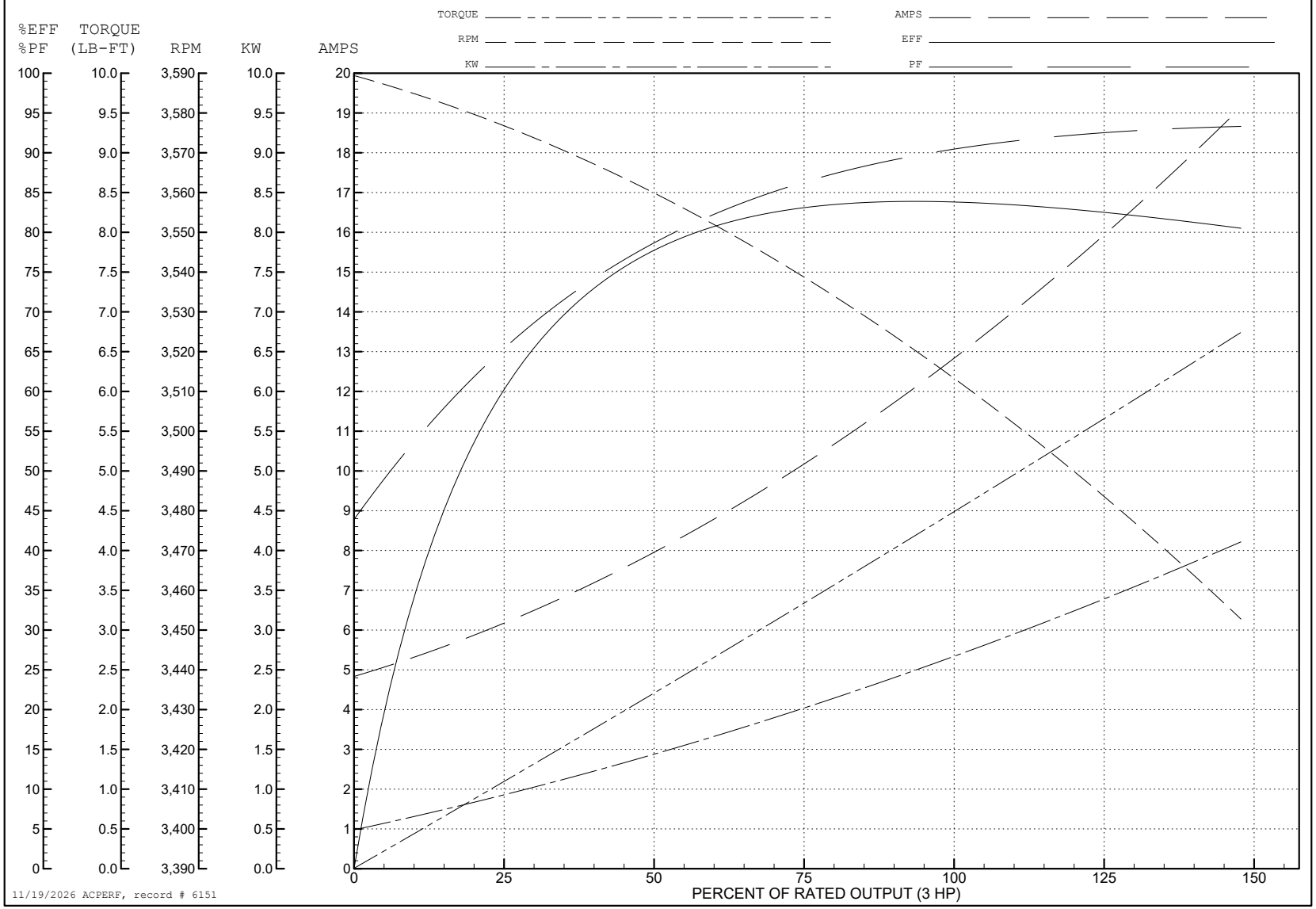
ABB Motors and Mechanical Inc.

WINDING # 19WGW048

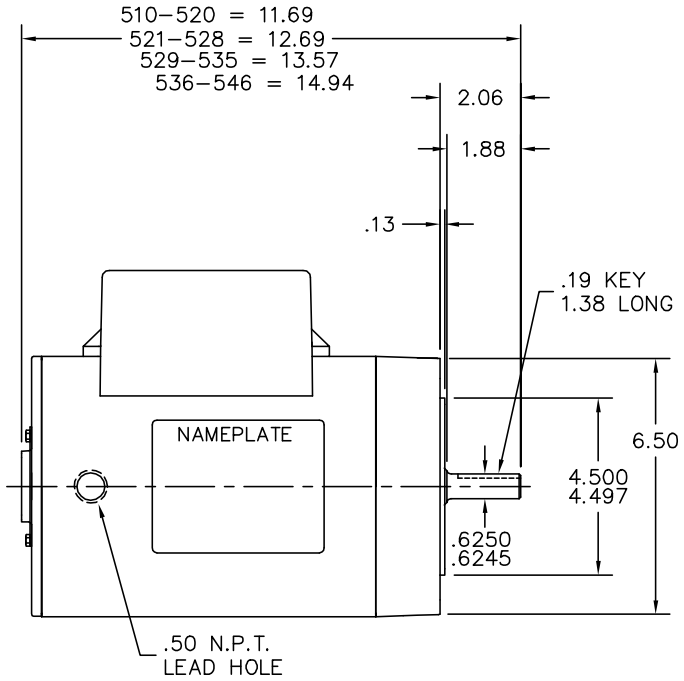
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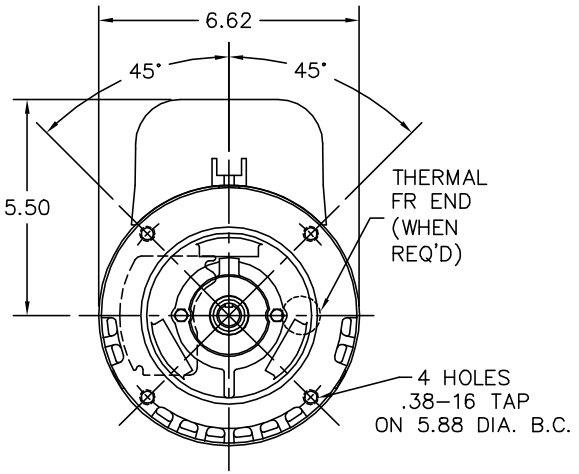
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=15.5 PU=13 LR=13 LRA=108



19LYB106



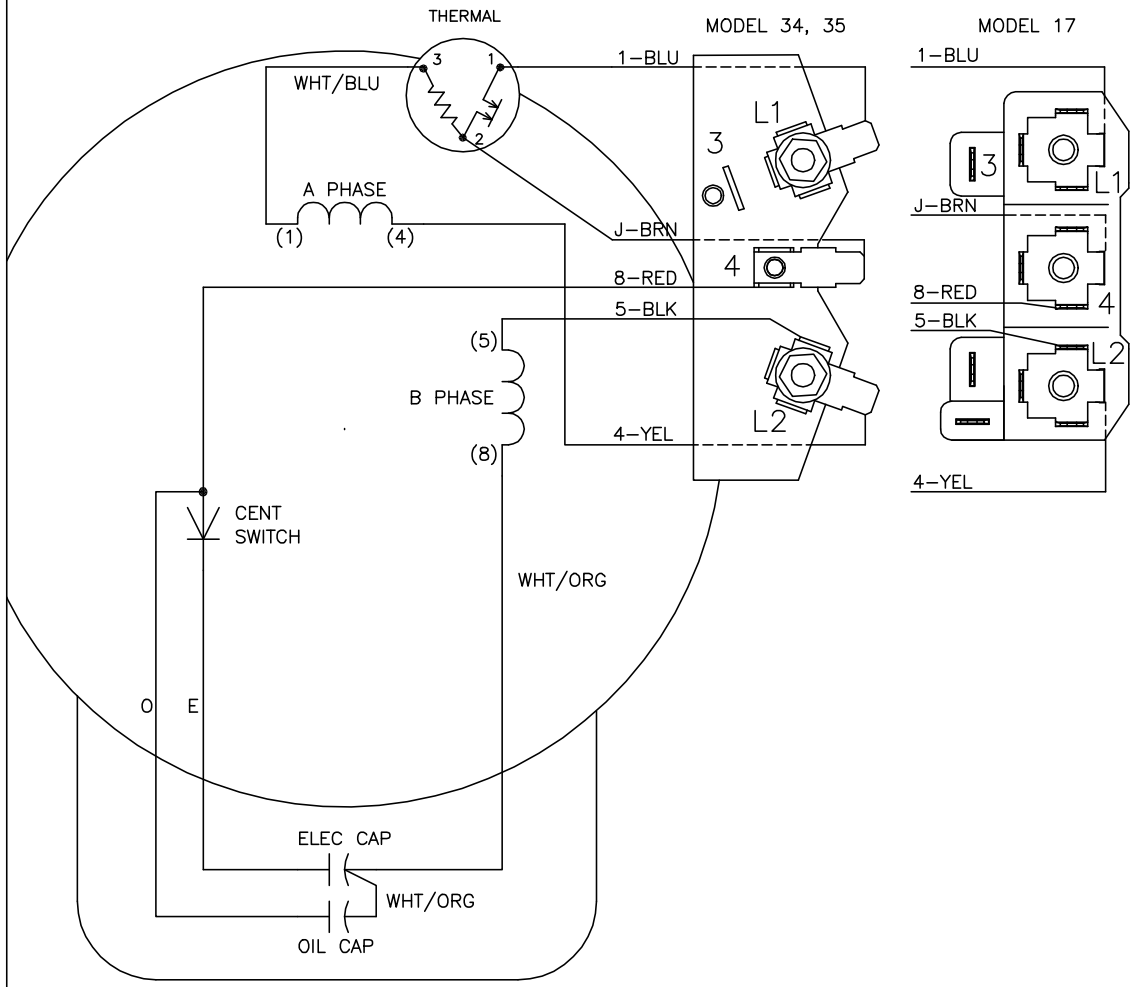


CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: REV SB, SH, CHG TBLT (FOR SWITCH CLEARANCE)			BALDOR ELECTRIC Co.
REV. LTR: A	BY: BDB	REVISED: 14:19:13 08/01/2002	TDR: 274828
19LYB106		FILE: AAA00091671	REF: 19LYB106
		MTL: –	VERT 56C OPEN 19LC W/TERM PANEL

19LYB106

CD0225



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: G	VERSION: 01	TDR: 000000373039	
CD0225	FILE: \AAA\00007\111	REVISED: 13:36:01 08/11/2005	TYPE LC, SV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	

CD0225