ABB BALDOR RELIANCE

Customer information packet

EL3405

.33HP, 3450RPM, 1PH, 60HZ, 48, 3420LC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	48
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.330 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CSA
	UR
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	1.600 A @ 230.0 V
	1.700 A @ 208.0 V
	3.200 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	P
Type	AC
Mech. spec.	34G374
Base	
Status	PRD/A
Elec. spec.	34WGY788
Layout	34LYG374
Eff. date	10-29-2024
CD Diagram	CD0055
Poles	02
Leads	6#18
Proprietary	False
Created date	11-06-2008

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3420LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.35 IN
Power Factor	96
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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	None
Winding Thermal 2	None

Nameplate

NP2116L											
CAT.NO.	EL3405										
SPEC.	34G374Y788G1										
HP	.33										
VOLTS	115/208-230										
AMP	3.2/1.7-1.6										
RPM	3450										
FRAME	48		**HZ**	60		**PH**	1				
SER.F.	1.35	**CODE**	L	**DES**	N	**CL**	F				
NEMA-NOM-EFF	72	**PF**	96								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	TEFC	**SN**									
	SFA 4/2.2-2										

AC Induction Motor Performance Data
Record # 50675
Typical performance - not guaranteed values

Winding: 34WGY788-R004	**Type:** 3420LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	0.489 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			3.2/1.7-1.6	**Breakdown Torque**	2.5 LB-FT
R.P.M.			3450	**Pull-up Torque**	1.4 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	1.8 LB-FT
NEMA Design Code	N	**KVA Code**	L	**Starting Current**	14.5 A
Service Factor (S.F.)			1.35	**No-load Current**	0.55 A
NEMA Nom. Eff.	72	**Power Factor**	96	**Line-line Res. @ 25ºC**	4.32 Ω A Ph 6.27 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	33°C
S.F. Amps			4/2.2-2	**Temp. Rise @ S.F. Load**	39°C

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	83	88	93	94	93	91	92
Efficiency	41.1	57.6	66.3	70.3	72.5	73	72.7
Speed	3566	3544	3527	3502	3474	3439	3460
Line amperes	0.798	1.06	1.31	1.6	1.94	2.31	2.09

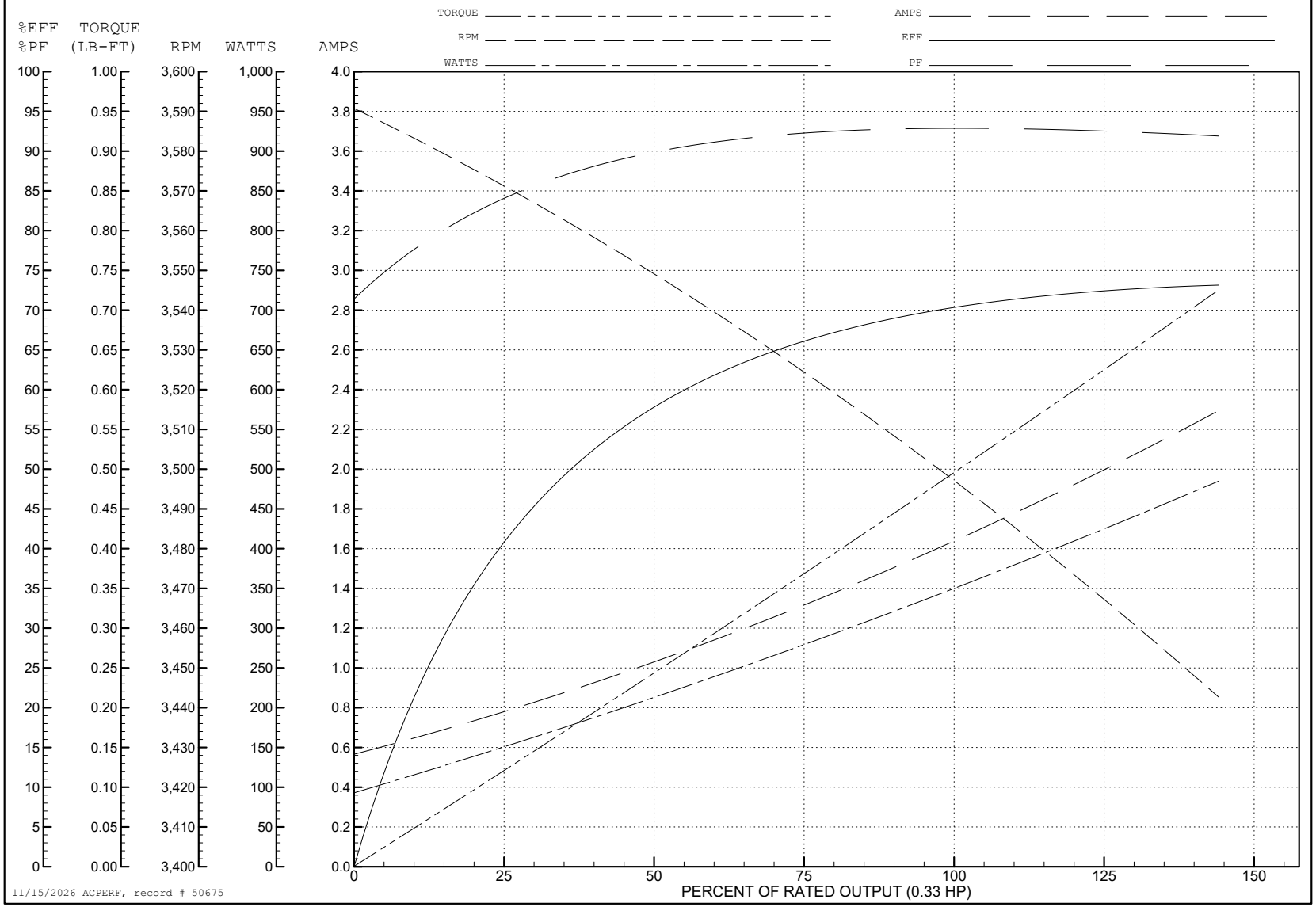
ABB Motors and Mechanical Inc.

WINDING # 34WGY788

0.33 HP 1 PH 60 HZ 3450 RPM 230 V 3420LC

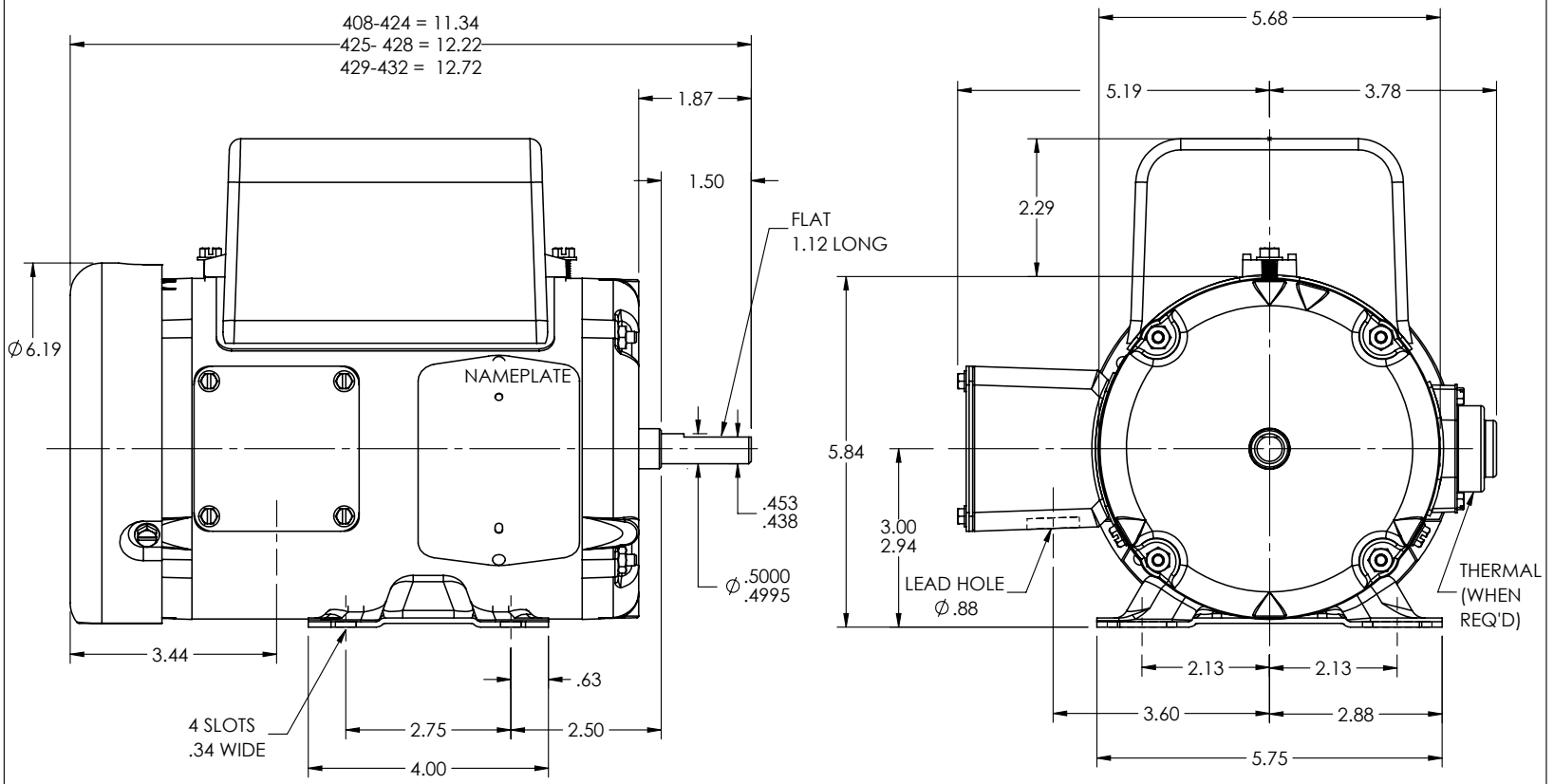
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=2.5 PU=1.4 LR=1.8 LRA=14.5



11/15/2026 ACPERF, record # 50675

34LYG374

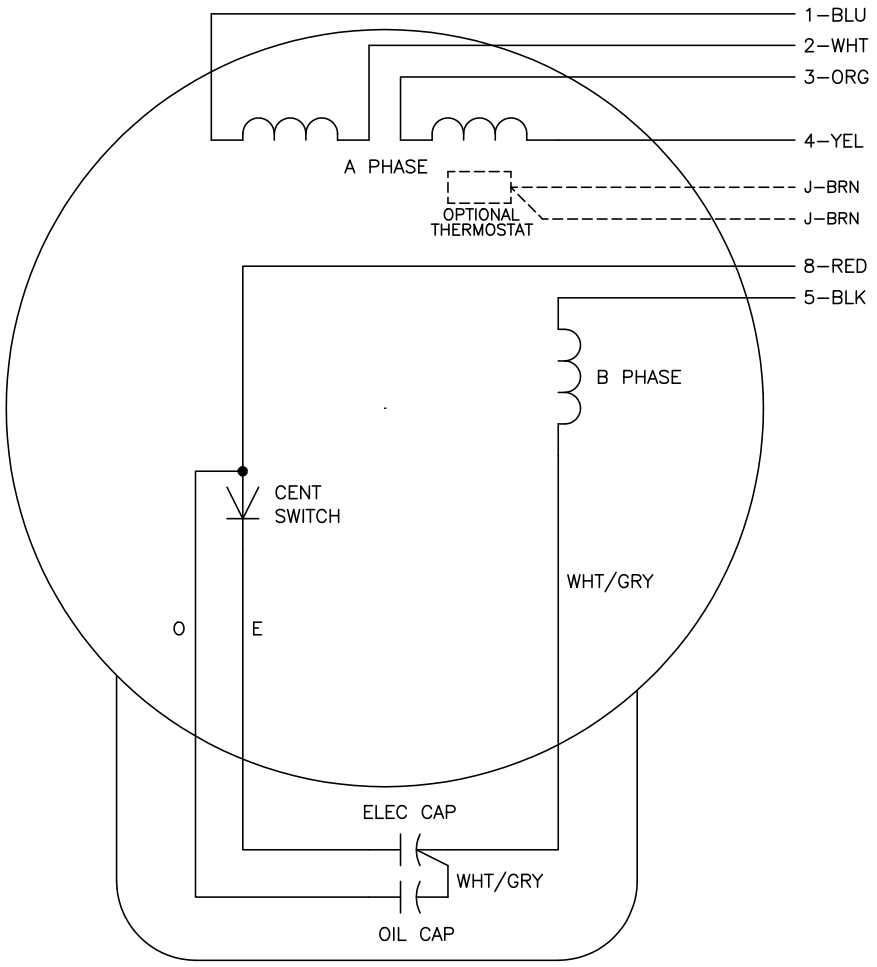


34LYG374

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: LOAD TO SOLIDWORKS			BALDOR - RELIANCE®
REV: D	VERSION: 03	REVISED: 03:51:27 08/09/2022	TDR: 000001194274
34LYG374	MODEL NO. 34LYG374		REF: -
	BY: ENFRAJ0		HOR 34LC NEMA 48 TEFC

CD0055



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	–
LOW OPP	1,3,5	2,4,8	–

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0055

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
CD0055		FILE: AAA00007414	MDL: –
		MTL: –	TYPE LC, DV, REV, 6 LEADS