ABB BALDOR RELIANCE

Customer information packet

EL3506

.75HP, 3450RPM, 1PH, 60HZ, 56, 3424LC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56
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	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUS
	C UR US
	CURUSEEV
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	3.900 A @ 230.0 V
	7.800 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
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	R
Type	AC
Mech. spec.	34G375
Base	
Status	PRD/A
Elec. spec.	34WGS432
Layout	34LYG375
Eff. date	10-29-2024
CD Diagram	CD0055
Poles	02
Leads	6#18
Proprietary	False
Created date	11-10-2008

High Voltage Full Load Amps	3.9 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
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	3424LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.97 IN
Power Factor	86
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	1.25
Shaft Diameter	0.625 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.	EL3506									
SPEC.	34G375S432G1									
HP	.75									
VOLTS	115/230									
AMP	7.8/3.9									
RPM	3450									
FRAME	56		**HZ**	60		**PH**	1			
SER.F.	1.25	**CODE**	K	**DES**	N	**CL**	B			
NEMA-NOM-EFF	72	**PF**	86							
RATING	40C AMB-CONT									
CC										
DE	6203	**ODE**	6203							
ENCL	TEFC	**SN**								
	SFA 9.2/4.6									

AC Induction Motor Performance Data
Record # 36358
Preliminary Data Sheet

Winding: 34WGS432-R001	**Type:** 3424LC	**Enclosure:** TEFC

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	1.15 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			7.8/3.9	**Breakdown Torque**	3.77 LB-FT
R.P.M.			3450	**Pull-up Torque**	2.87 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	3.94 LB-FT
NEMA Design Code	N	**KVA Code**	K	**Starting Current**	57.5 A
Service Factor (S.F.)			1.25	**No-load Current**	4.01 A
NEMA Nom. Eff.	72	**Power Factor**	86	**Line-line Res. @ 25ºC**	0.612 Ω A Ph 2.38 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	60°C
S.F. Amps			9.2/4.6	**Temp. Rise @ S.F. Load**	70°C

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	56	72	81	86	89	89	89
Efficiency	50.1	64.9	70.4	73.1	73	71.3	73
Speed	3565	3540	3508	3475	3435	3383	3435
Line amperes	4.49	5.34	6.5	7.84	9.31	11.3	9.31

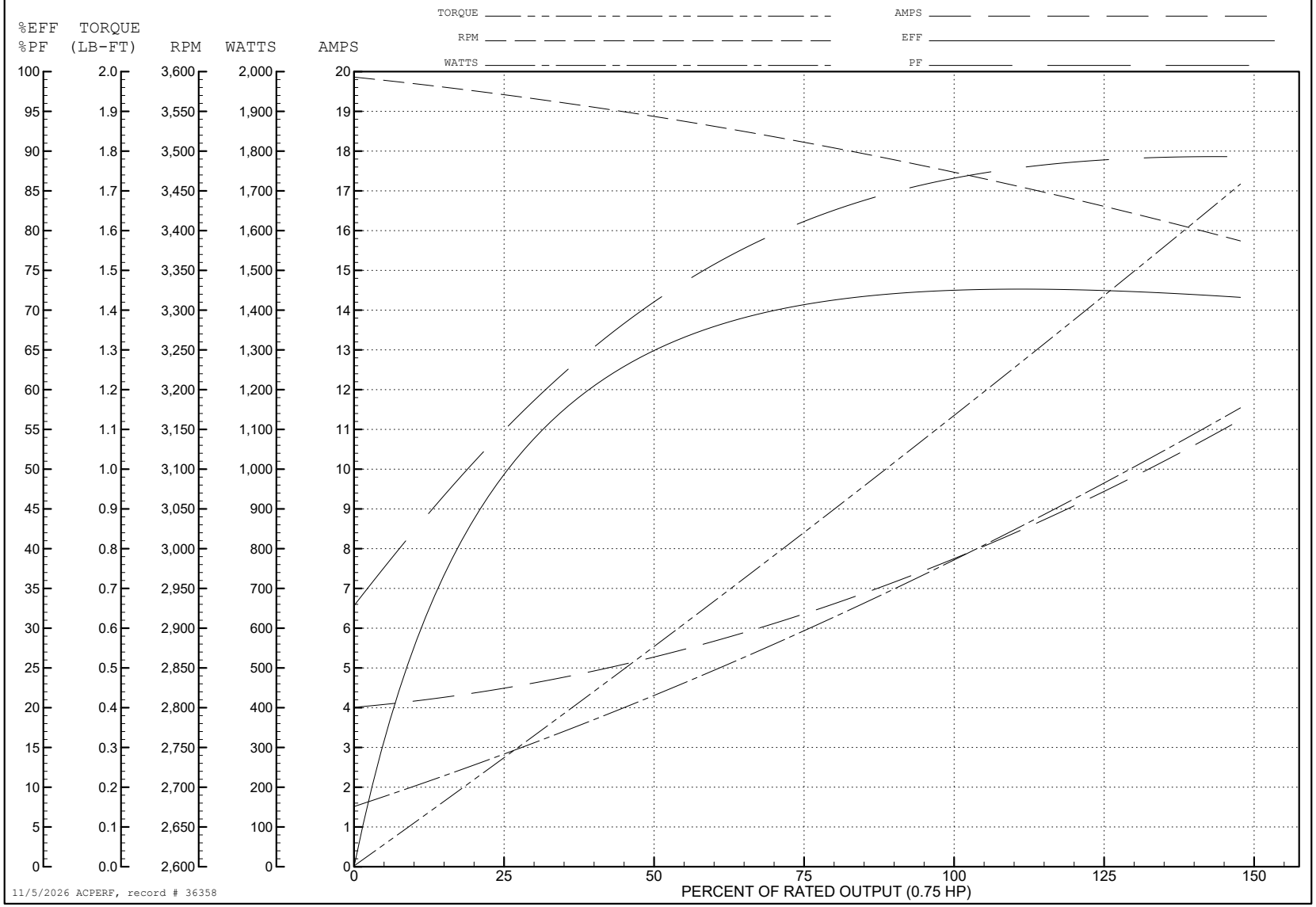
ABB Motors and Mechanical Inc.

WINDING # 34WGS432

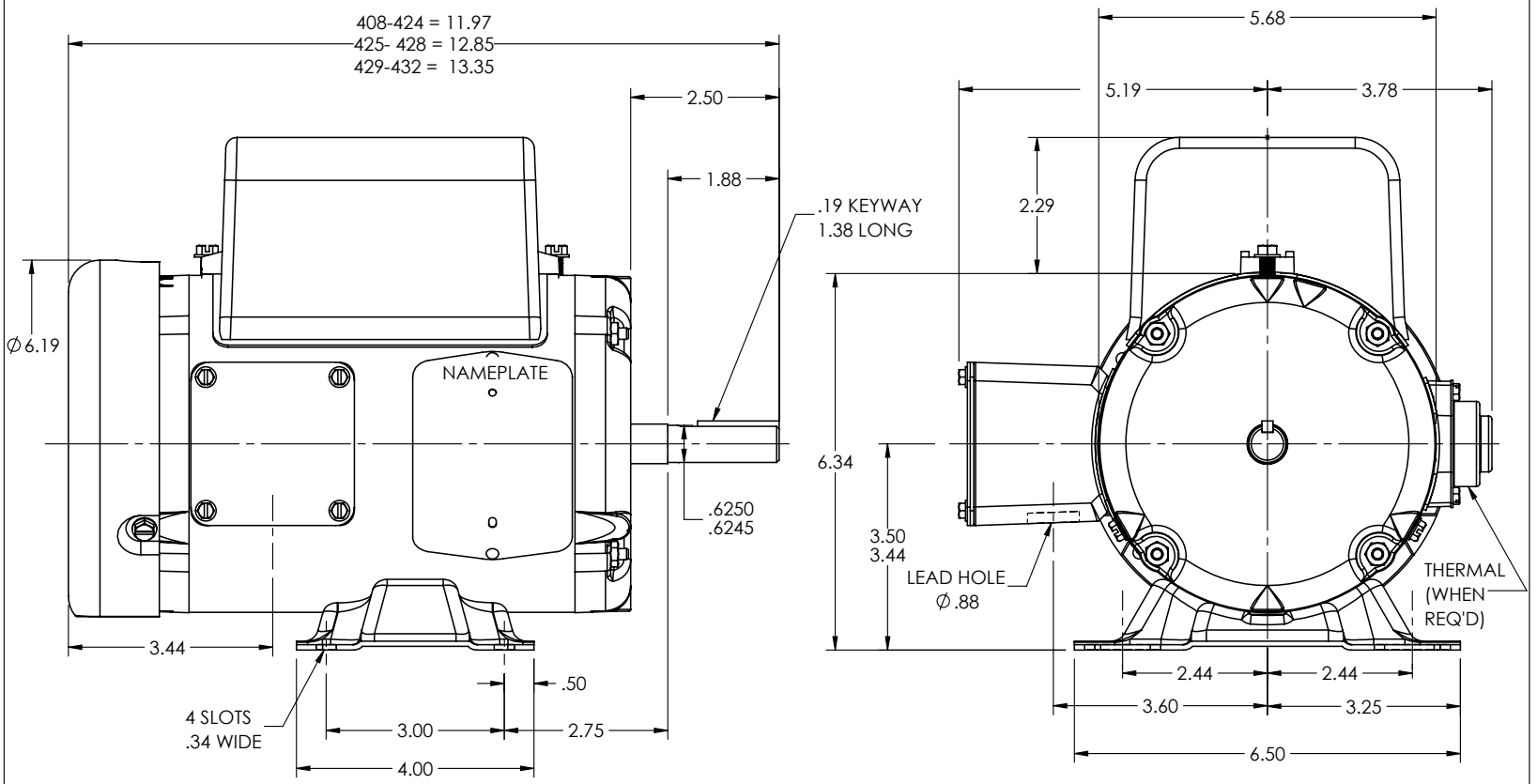
0.75 HP 1 PH 60 HZ 3450 RPM 115 V 3424LC

TORQUES(LB-FT): PO=3.77 PU=2.87 LR=3.94 LRA=57.5

Typical performance - not guaranteed values.



34LYG375

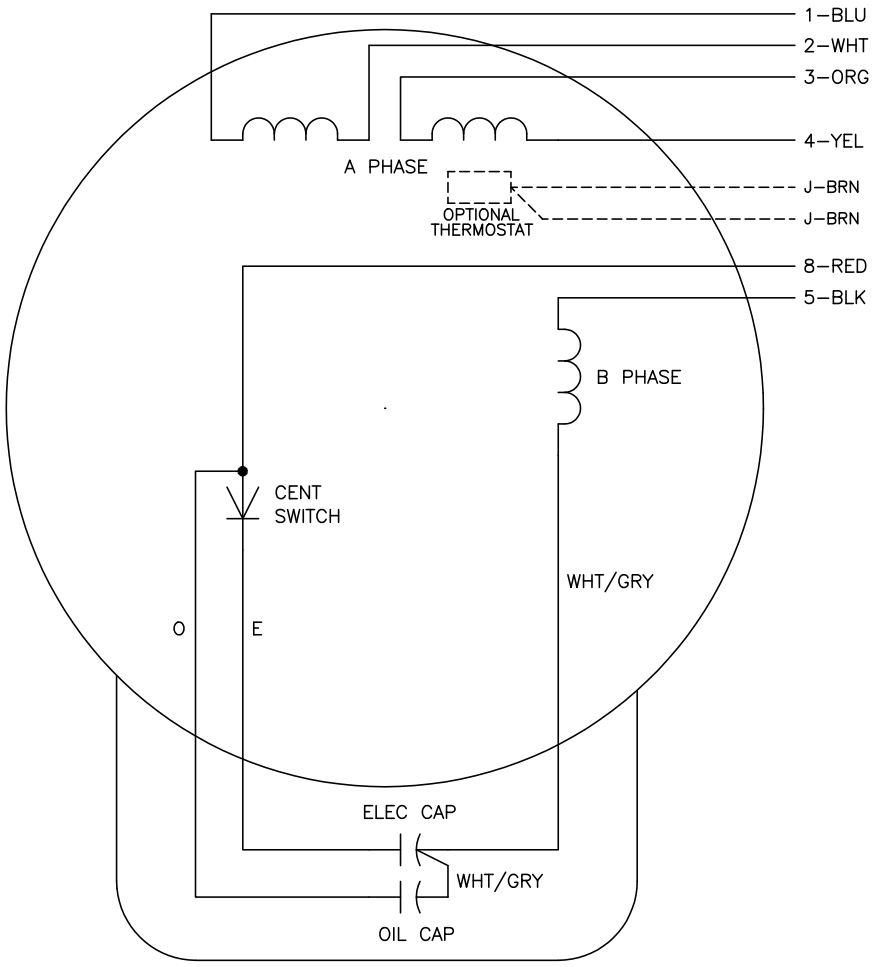


34LYG375

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

REV. DESC: LOAD TO SOLIDWORKS			BALDOR - RELIANCE®
REV: E	VERSION: 04	REVISED: 03:58:39 08/09/2022	TDR: 000001194274
34LYG375	MODEL NO. 34LYG375		REF: -
	BY: ENFRAJ0		HORZ 34LC NEMA 56 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