

BALDOR • RELIANCE

Customer information packet

EL3506

.75HP, 3450RPM, 1PH, 60HZ, 56, 3424LC, TEFC, F1

Class - None

Division - Not Applicable

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	CURUSEEV CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary 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. @ 25°C	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

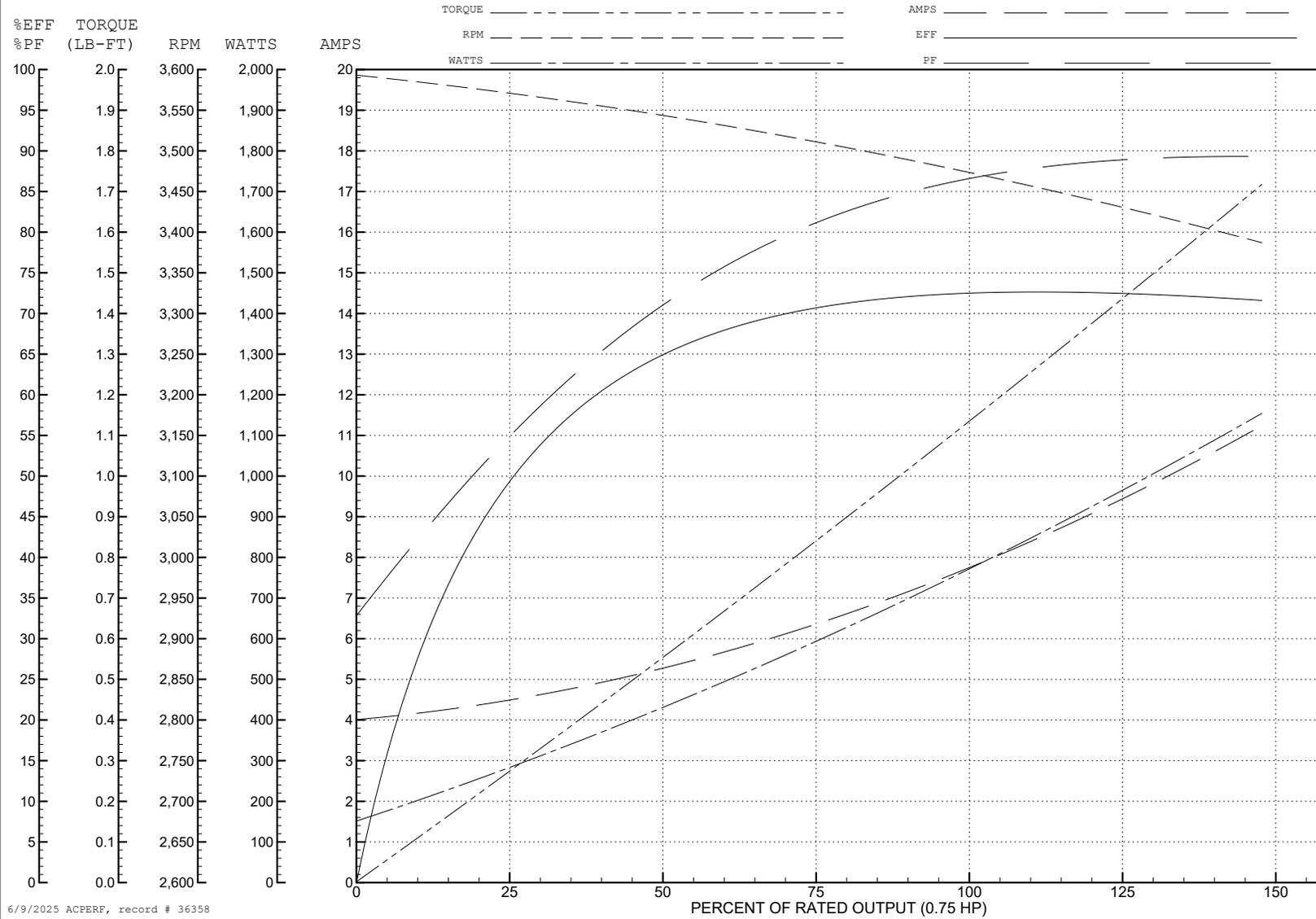
ABB Motors and Mechanical Inc.

WINDING # 34WGS432

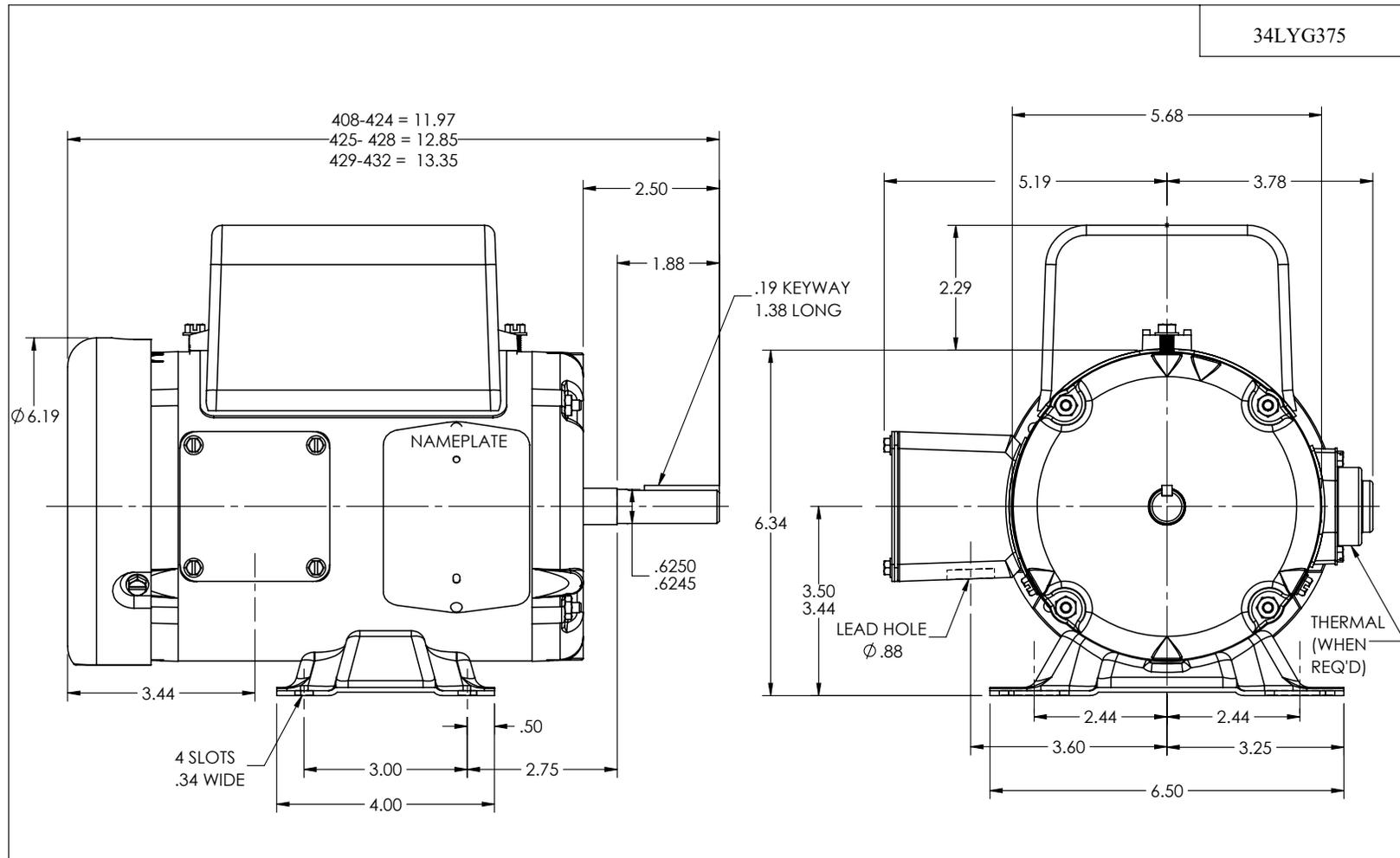
Typical performance - not guaranteed values.

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



6/9/2025 ACPERF, record # 36358



34LYG375

34LYG375

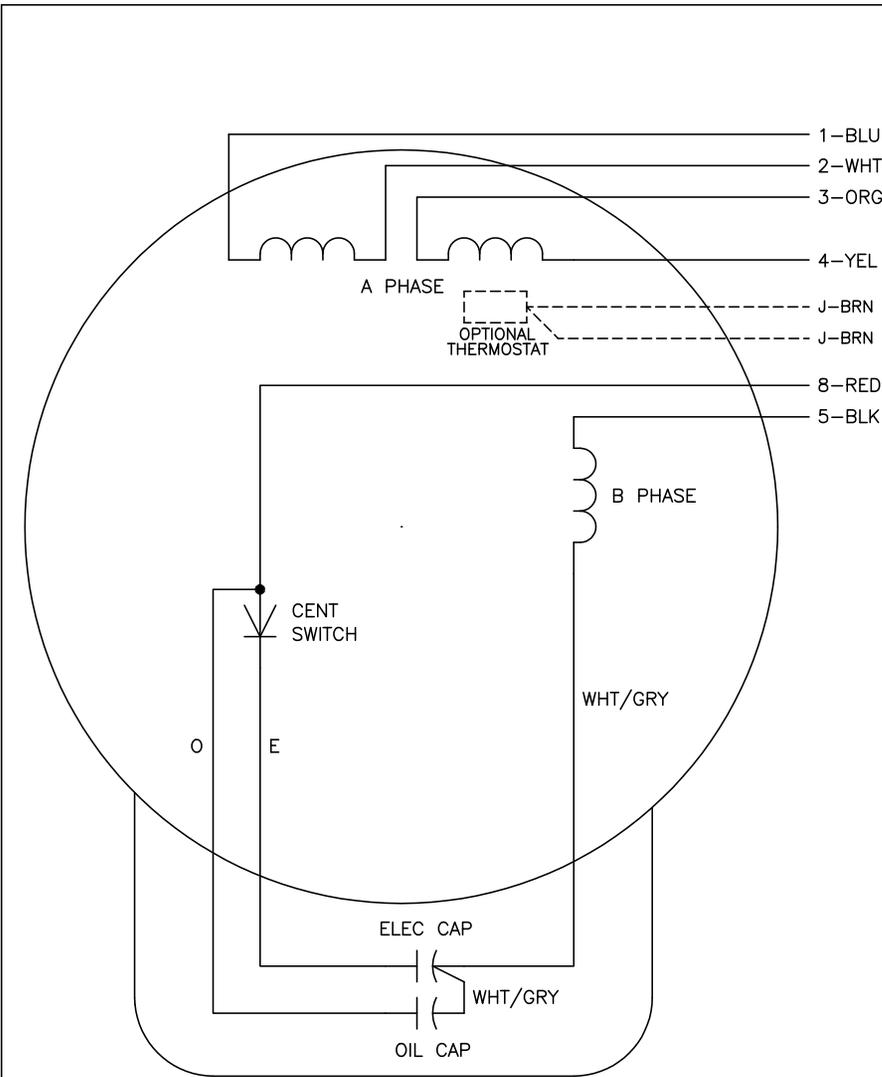
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

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

BALDOR - RELIANCE®

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
C00000		FILE: AAA00007414	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

TYPE LC, DV, REV, 6 LEADS

CD0055