



Customer information packet

EL3504

.5HP, 1745RPM, 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	.500 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 CSA EEV NEMA_PREMIUM 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	2.300 A @ 230.0 V 4.600 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part detail

Revision	AL
Type	AC
Mech. spec.	34G375
Base	
Status	PRD/A
Elec. spec.	34WGX029
Layout	34LYG375
Eff. date	10-29-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	F
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	4
Overall Length	11.97 IN
Power Factor	89
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	1745 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

NP2117L									
CAT.NO.	EL3504								
SPEC.	34G375X29G1								
HP	.5								
VOLTS	115/230								
AMP	4.6/2.3								
RPM	1745								
FRAME	56	HZ	60	PH		1			
SER.F.	1.25	CODE	K	DES	N	CL	F		
NEMA-NOM-EFF	78.5	PF	89						
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	TEFC	SN							
	SFA 5.6/2.8								

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 20836

Typical performance - not guaranteed values

Winding: 34WGX029-R002		Type: 3424LC	Enclosure: TEFC
Nameplate Data		230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5	Full Load Torque	1.5 LB-FT
Volts	115/230	Start Configuration	direct on line
Full Load Amps	4.6/2.3	Breakdown Torque	3.6 LB-FT
R.P.M.	1745	Pull-up Torque	3.1 LB-FT
Hz	60 Phase	Locked-rotor Torque	3.7 LB-FT
NEMA Design Code	N KVA Code	Starting Current	18.1 A
Service Factor (S.F.)	1.25	No-load Current	1 A
NEMA Nom. Eff.	78.5 Power Factor	Line-line Res. @ 25°C	5.16 Ω A Ph 4.01 Ω B Ph
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	57°C
S.F. Amps	5.6/2.8	Temp. Rise @ S.F. Load	71°C

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	64	79	87	90	92	93	92
Efficiency	56.9	72.4	76.5	78.4	77.8	75.8	77.8
Speed	1786	1773	1758	1742	1722	1699	1722
Line amperes	1	1.4	1.8	2.3	2.8	3.4	2.8

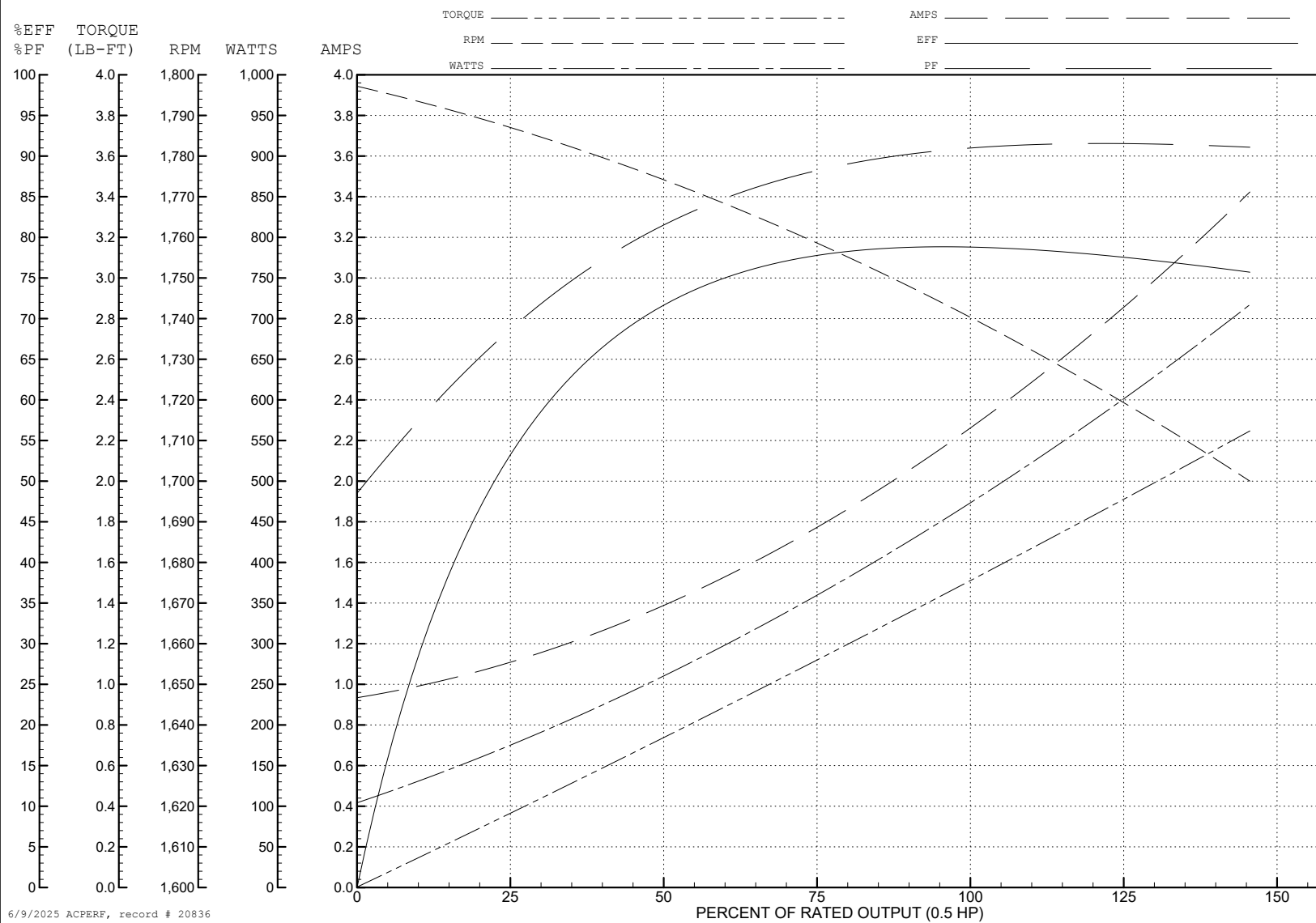
ABB Motors and Mechanical Inc.

WINDING # 34WGX029

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1745 RPM 230 V 3424LC

TORQUES (LB-FT): PO=3.6 PU=3.1 LR=3.7 LRA=18.1



AC Induction Motor Performance Data

Record # 43326

Typical performance - not guaranteed values

Winding: 34WGX029-R002			Type: 3424LC		Enclosure: TEFC		
Nameplate Data				115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.5		Full Load Torque		1.5 LB-FT	
Volts		115/230		Start Configuration		direct on line	
Full Load Amps		4.6/2.3		Breakdown Torque		3.6 LB-FT	
R.P.M.		1745		Pull-up Torque		3.1 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		3.7 LB-FT	
NEMA Design Code		N	KVA Code	K	Starting Current		36.2 A
Service Factor (S.F.)		1.25		No-load Current		2 A	
NEMA Nom. Eff.		78.5	Power Factor	89	Line-line Res. @ 25°C		1.18 Ω A Ph 4.17 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps		5.6/2.8		Temp. Rise @ S.F. Load		71°C	

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	73	81	89	89	91	92	91
Efficiency	57	72.4	76.9	78.5	78.1	75.9	78.1
Speed	1786	1773	1758	1742	1722	1699	1722
Line amperes	2	2.8	3.6	4.6	5.6	6.8	5.6

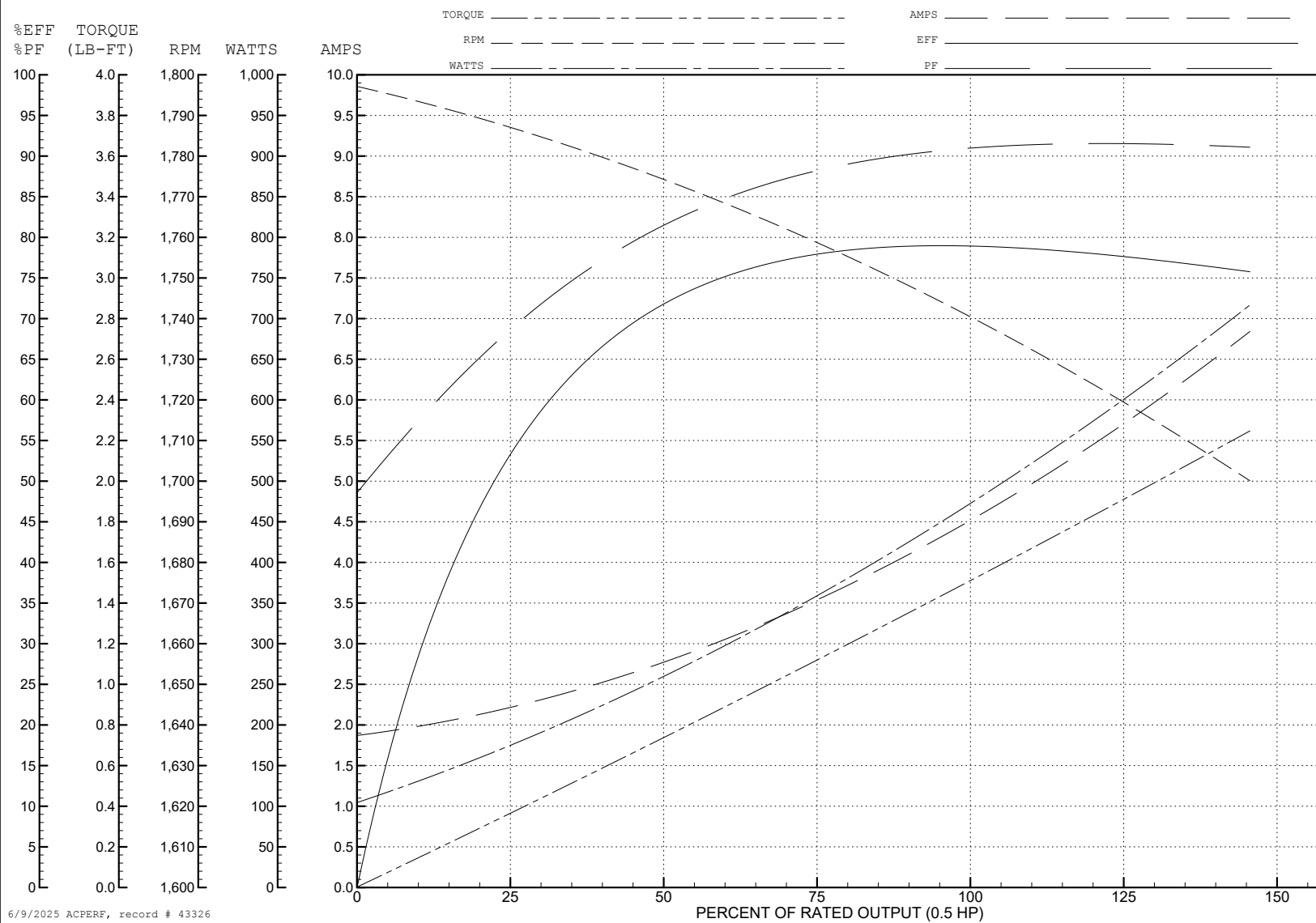
ABB Motors and Mechanical Inc.

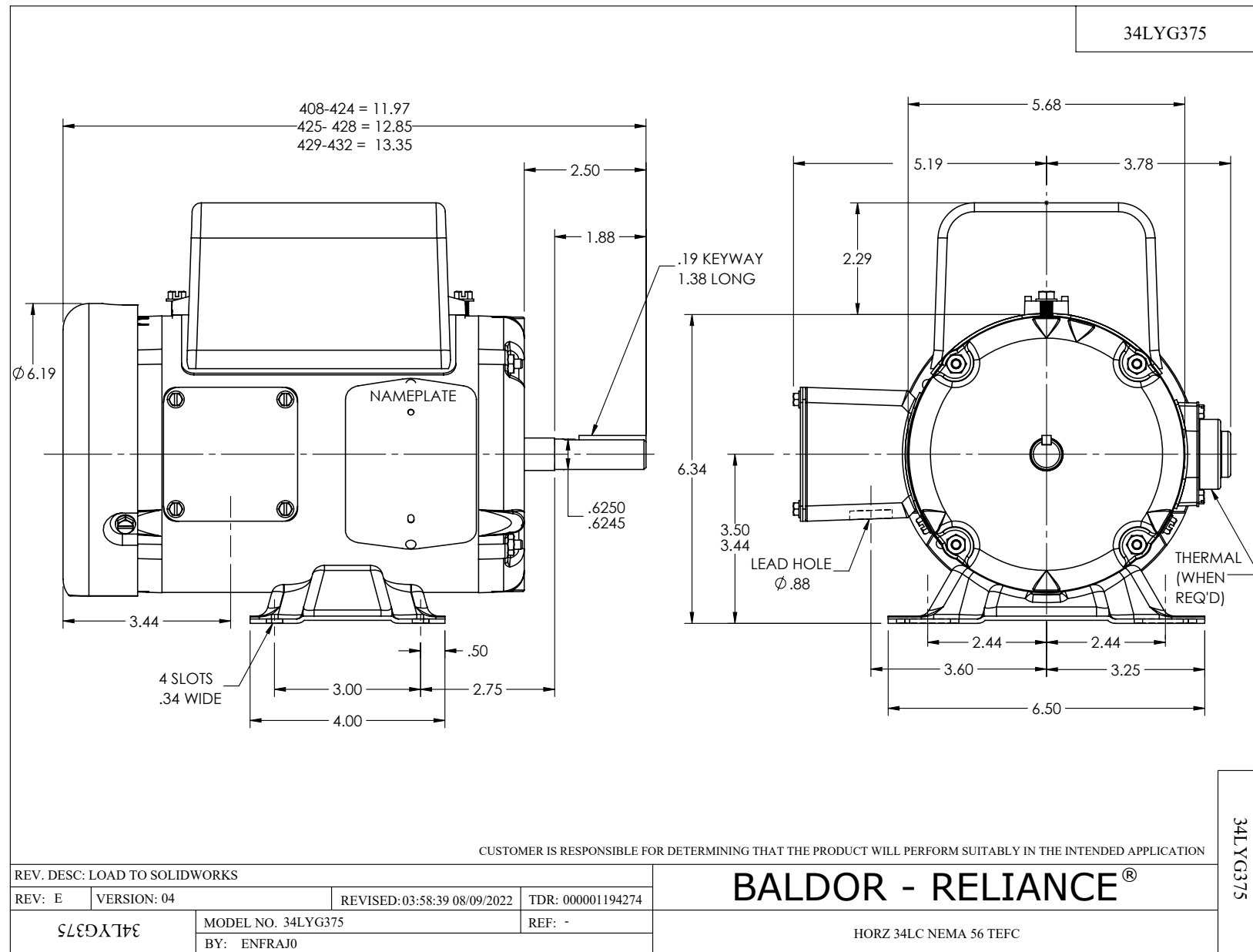
WINDING # 34WGX029

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1745 RPM 115 V 3424LC

TORQUES (LB-FT): PO=3.6 PU=3.1 LR=3.7 LRA=36.2





CD0055

