

ABB BALDOR RELIANCE III

Customer information packet

L3501-50

.33/KW .25, 1425RPM, 1PH, 50HZ, 56, 3418LC, TE

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.250 KW @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	110.0 V @ 50 HZ 220.0 V @ 50 HZ
Agency Approvals	C UR US CE CURUS UKCA WEEE
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	4.000 A @ 110.0 V 2.000 A @ 220.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	D
Type	AC
Mech. spec.	34G375
Base	
Status	PRD/A
Elec. spec.	34WGR754
Layout	34LYG375
Eff. date	10-25-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	04-26-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	2.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3418LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.97 IN
Power Factor	83
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	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1425 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

NP1372L									
CAT.NO.	L3501-50								
SPEC.	34G375R754G1								
HP	.33/KW .25								
VOLTS	110/220								
AMP	4/2								
R.P.M. (1/MIN)	1425								
FRAME	56	HZ		50	PH		1		
SER.F.	1.35	CODE		L	DES	-	CL	F	
NEMA-NOM-EFF	68.5	PF		83					
RATING	40C AMB-S1 CONT								
CC		IP44 KG12 IC411							
DE	6203	ODE		6203					
ENCL	TEFC	SN							
	SFA 5/2.5								

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 101505

Typical performance - not guaranteed values

Winding: 34WGR754-R001			Type: 3418LC		Enclosure: TEFC	
Nameplate Data			220 V, 50 Hz: High Voltage Connection			
Rated Output (KW)		.25	Full Load Torque		1.223 LB-FT	
Volts		110/220	Start Configuration		direct on line	
Full Load Amps		4/2	Breakdown Torque		3.56 LB-FT	
R.P.M.		1425	Pull-up Torque		3.25 LB-FT	
Hz	50 Phase	1	Locked-rotor Torque		4.32 LB-FT	
NEMA Design Code		- KVA Code	Starting Current		13.9 A	
Service Factor (S.F.)		1.35	No-load Current		1.22 A	
NEMA Nom. Eff.		68.5 Power Factor	Line-line Res. @ 25°C		7.0364 Ω A Ph 4.2698 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		40°C	
S.F. Amps		5/2.5	Temp. Rise @ S.F. Load		52°C	

Load Characteristics 220 V, 50 Hz, 0.25 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	67	77	83	87	89	88
Efficiency	43.3	60.3	67.7	71.1	71.8	71.4	71.6
Speed	1485.2	1474.2	1461.1	1446.8	1430.3	1411.4	1423
Line amperes	1.28	1.42	1.65	1.94	2.28	2.67	2.44

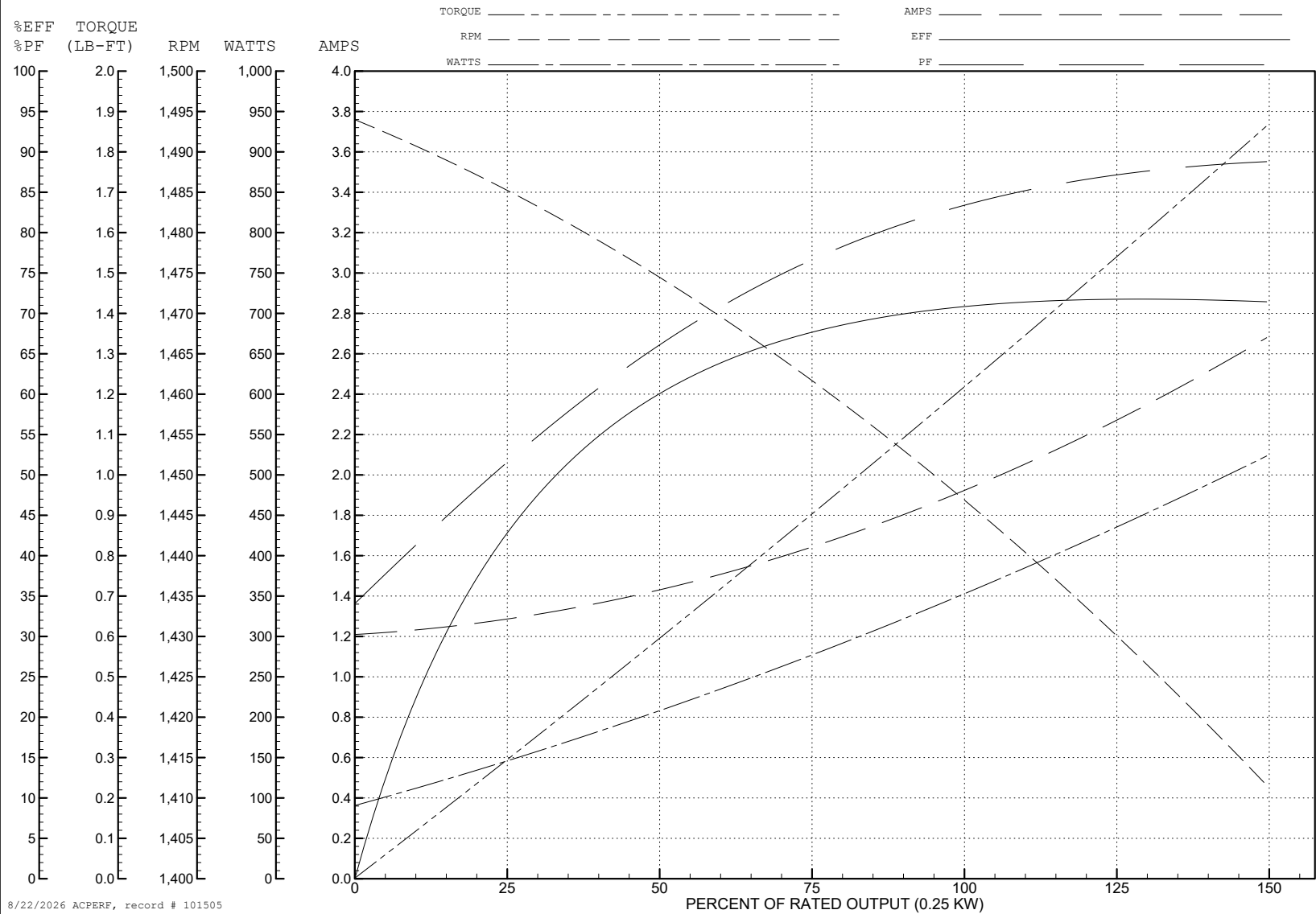
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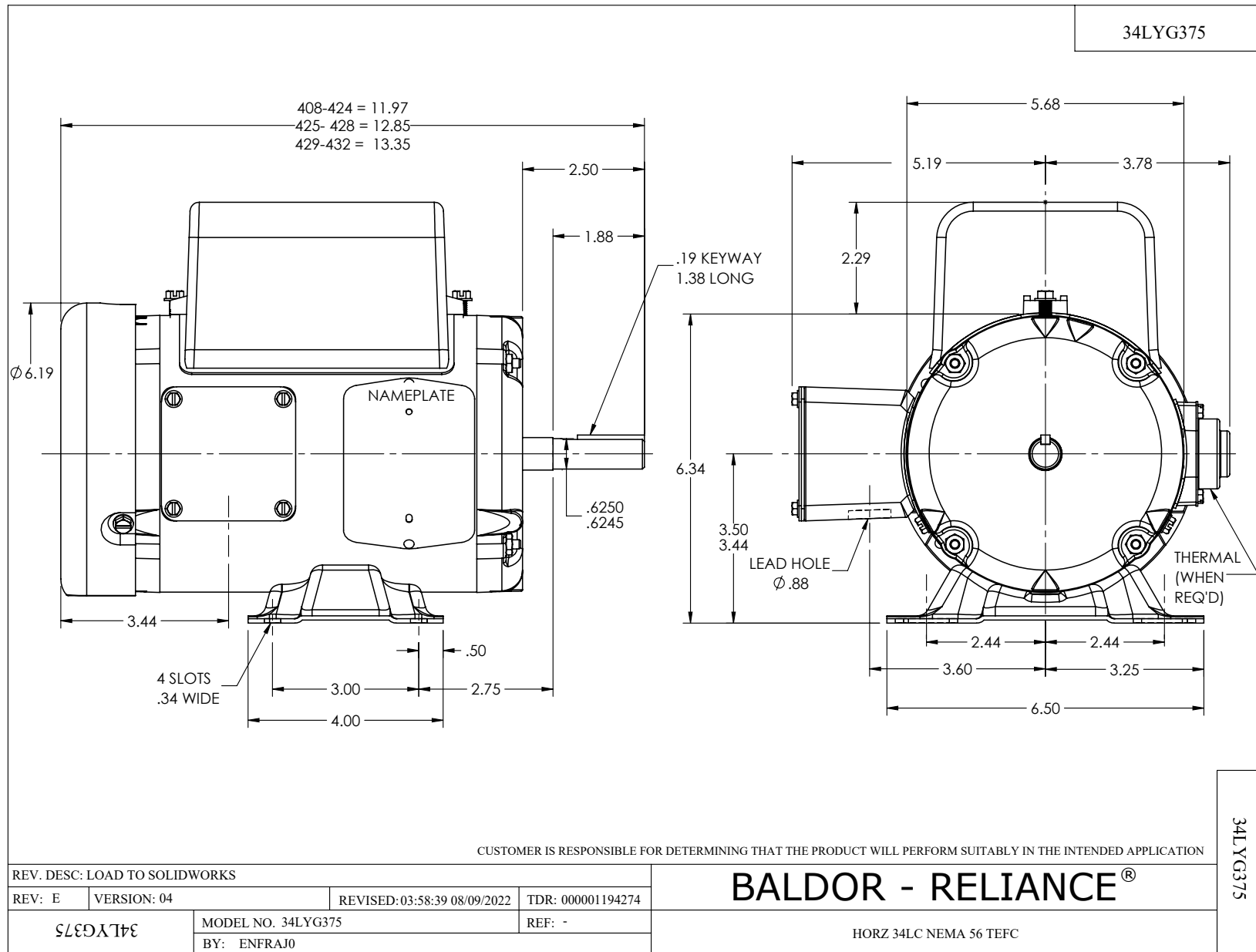
WINDING # 34WGR754

Typical performance - not guaranteed values.

0.25 KW 1 PH 50 HZ 1425 RPM 220 V 3418LC

TORQUES (LB-FT) : PO=3.56 PU=3.25 LR=4.32 LRA=13.9





CD0055

