

ABB BALDOR RELIANCE III

Customer information packet L3404

.25HP, 1140RPM, 1PH, 60HZ, 48, 3421L, TEFC, F1

Class - None

Division - Not Applicable

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, Induction Run
Output @ Frequency	.250 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US
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	3.200 A @ 230.0 V 3.600 A @ 208.0 V 6.400 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	48.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.2 a

Part Detail

Revision	Z
Type	AC
Mech. spec.	34C051
Base	
Status	PRD/A
Elec. spec.	34WG5613
Layout	34LYC051
Eff. date	12-30-2024
CD Diagram	CD0001
Poles	06
Leads	6#18
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	N
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	3421L
Mounting Arrangement	F1
Number of Poles	6
Overall Length	11.34 IN
Power Factor	53
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	1140 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

NP1256L											
CAT.NO.	L3404										
SPEC.	34C51-5613										
HP	.25										
VOLTS	115/230										
AMP	6.4/3.2										
RPM	1140										
FRAME	48		HZ	60				PH	1		
SER.F.	1.35		CODE	N	DES	N		CLASS	B		
NEMA-NOM-EFF	48		PF	53							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	TEFC		SN								
	SFA 6.8/3.4										

Accessories

Part number	Description	Multiplier
34-3900T	C-FACE KIT	A8

AC Induction Motor Performance Data

Record # 6803

Typical performance - not guaranteed values

Winding: 34WG5613-R001			Type: 3421L	Enclosure: TEFC			
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.25	Full Load Torque		1.13 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		6.4/3.2	Breakdown Torque		3.33 LB-FT		
R.P.M.		1140	Pull-up Torque		2.83 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		3.5 LB-FT	
NEMA Design Code		N	KVA Code	N	Starting Current		12.9 A
Service Factor (S.F.)		1.35		No-load Current		2.9 A	
NEMA Nom. Eff.		48	Power Factor	53	Line-line Res. @ 25°C		8.08 Ω A Ph 6.68 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		77°C	
S.F. Amps		6.8/3.4		Temp. Rise @ S.F. Load		90°C	

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	39	47	53	59	65	63
Efficiency	21	35	43	48	51	52	51.5
Speed	1188	1170	1160	1145	1130	1110	1120
Line amperes	2.9	3	3.1	3.2	3.3	3.6	3.4

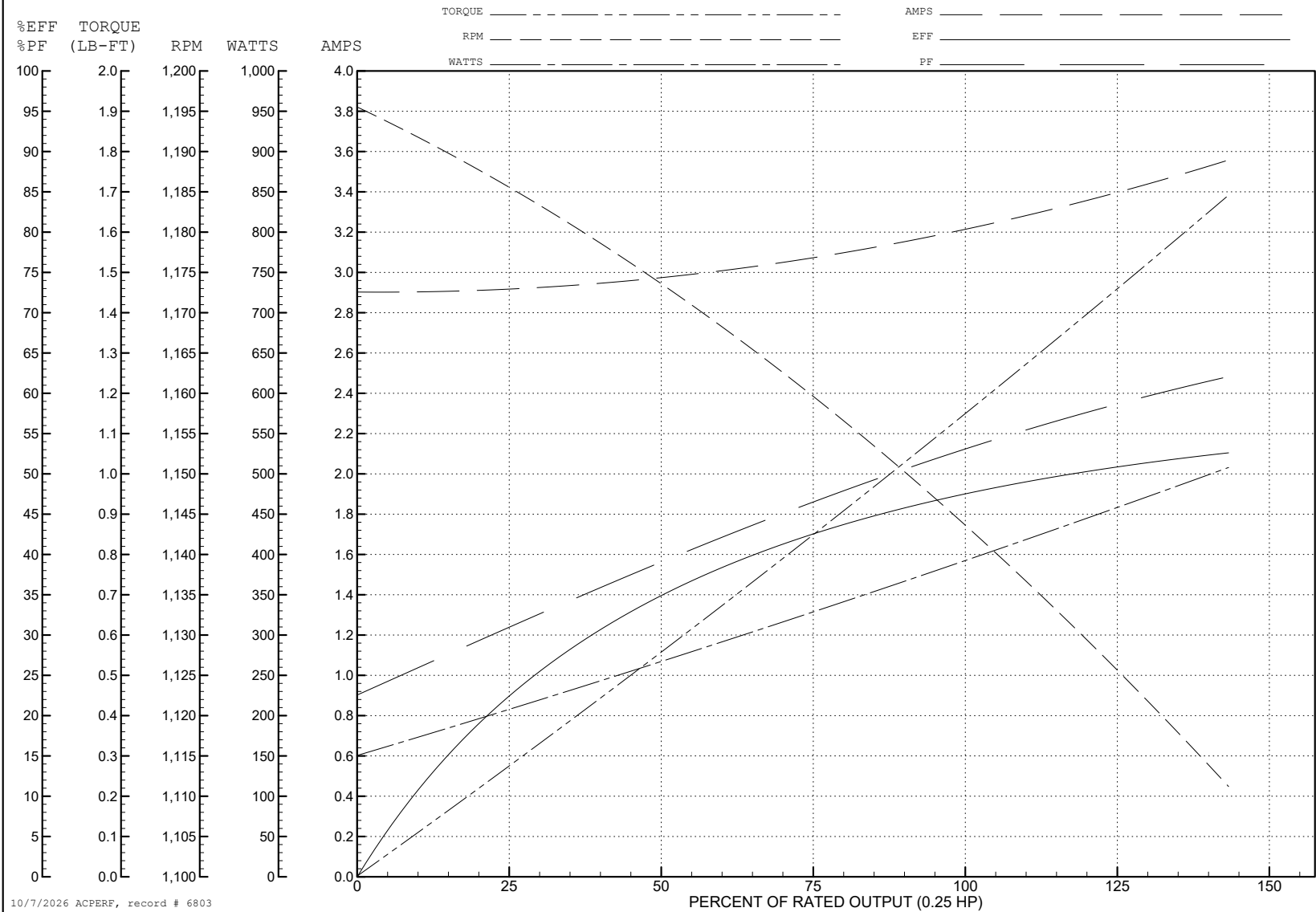
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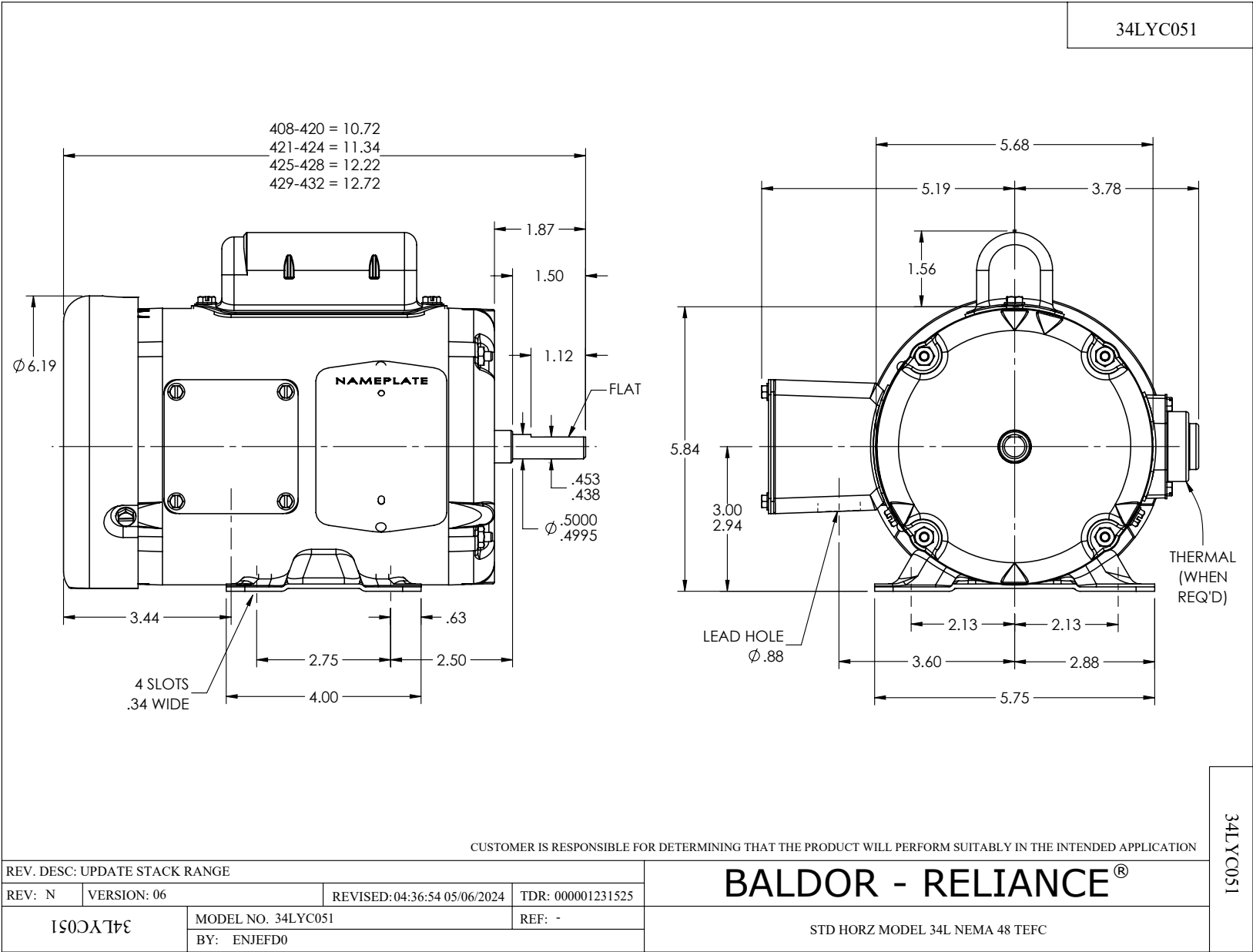
WINDING # 34WG5613

Typical performance - not guaranteed values.

0.25 HP 1 PH 60 HZ 1140 RPM 230 V 3421L

TORQUES (LB-FT): PO=3.33 PU=2.83 LR=3.5 LRA=12.9





CD0001

