

ABB BALDOR RELIANCE III

Customer information packet

BM3108

.5HP, 1725RPM, 3PH, 60HZ, 56, 3416M, OPEN, F1, B

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA
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
Brake Torque	3.0 lb-ft
Current @ Voltage	1.000 A @ 460.0 V 2.000 A @ 230.0 V 2.500 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting
Front Shaft Indicator	None

Part Detail

Revision	X
Type	AC
Mech. spec.	34F039
Base	
Status	PRD/A
Elec. spec.	34WG0872
Layout	34LYF039
Eff. date	12-31-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.14 IN
Power Factor	63
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	1725 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.	BM3108										
SPEC.	34F39-872-B										
HP	.5										
VOLTS	230/460										
AMP	2/1										
RPM	1725										
FRAME	56			HZ	60				PH	3	
SER.F.	1.25		CODE	L	DES	B		CLASS		B	
NEMA-NOM-EFF	74		PF	63							
RATING	40C AMB-CONT										
CC											
DE	6203			ODE	6203						
ENCL	OPEN		SN								
	SFA 2.4/1.2										

AC Induction Motor Performance Data

Record # 6599

Typical performance - not guaranteed values

Winding: 34WG0872-R001			Type: 3416M		Enclosure: OPEN			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.5	Full Load Torque		1.5 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		2/1	Breakdown Torque		7 LB-FT			
R.P.M.		1725	Pull-up Torque		4.5 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		5.3 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		6.5 A	
Service Factor (S.F.)		1.25	No-load Current		0.8 A			
NEMA Nom. Eff.		74	Power Factor		63	Line-line Res. @ 25°C		32 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		48°C	
S.F. Amps		2.4/1.2	Temp. Rise @ S.F. Load		57°C			

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	43	55	63	69	75	69
Efficiency	53.2	66.4	72.5	74.6	75.3	75.1	75.3
Speed	1782	1769	1754	1739	1724	1706	1724
Line amperes	0.8	0.85	0.92	1.03	1.15	1.25	1.15

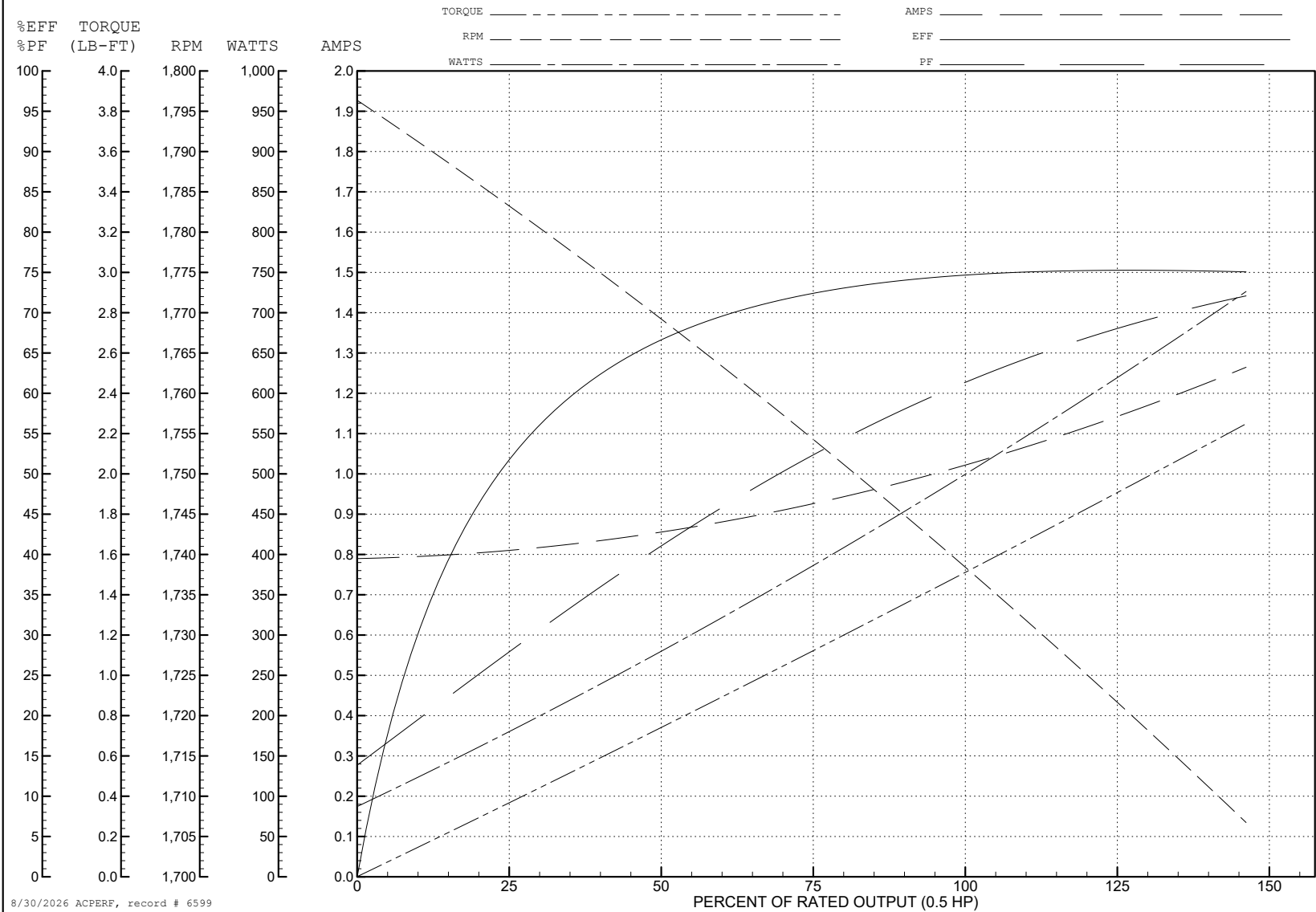
ABB Motors and Mechanical Inc.

WINDING # 34WG0872

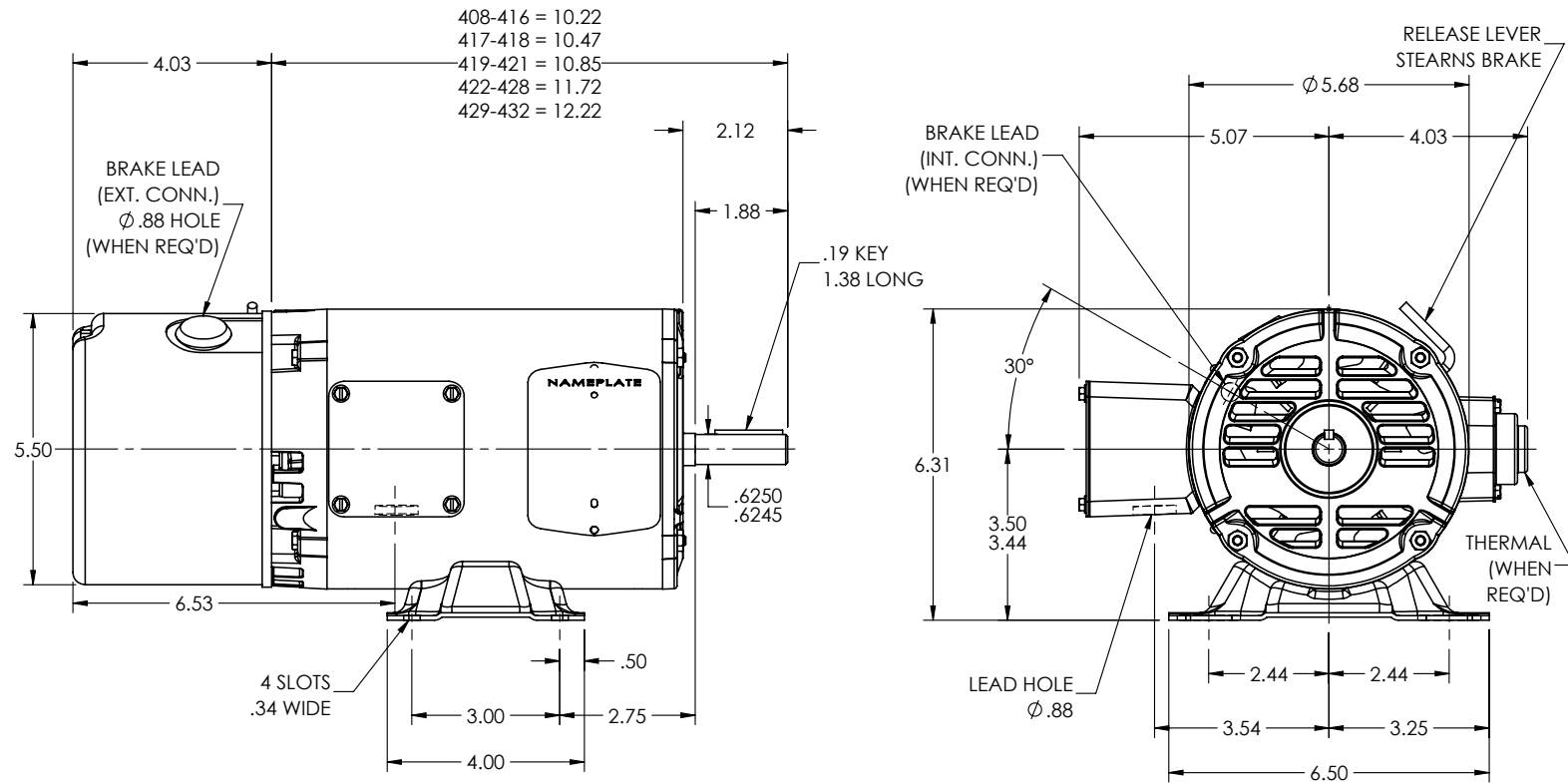
Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3416M

TORQUES (LB-FT) : PO=7 PU=4.5 LR=5.3 LRA=6.5



34LYF039



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

REV. DESC: LOAD TO SOLIDWORKS - REV C

REV: D	VERSION: 02	REVISED: 04:44:40 05/18/2023	TDR: 000001201165
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34LYF039

MODEL NO. 34LYF039

BY: ENFRAJ0

REF: -

BALDOR - RELIANCE®

STD HORZ MODEL 34M NEMA 56 OPEN W/BRAKE

34LYF039

