

ABB BALDOR RELIANCE III

Customer information packet

BM3112

.75HP, 1725RPM, 3PH, 60HZ, 56, 3420M, OPEN, F1

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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR
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	6.0 lb-ft
Current @ Voltage	3.600 A @ 208.0 V 3.200 A @ 208.0 V 3.000 A @ 230.0 V 1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	Z
Type	AC
Mech. spec.	34F039
Base	
Status	PRD/A
Elec. spec.	34WG0883
Layout	34LYF039
Eff. date	10-16-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

Front Face Code	Brake Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 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	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3420M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.77 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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

Nameplate

NP1256L											
CAT.NO.	BM3112										
SPEC.	34F039-0883-C										
HP	.75										
VOLTS	208-230/460										
AMP	3.2-3/1.5										
RPM	1725										
FRAME	56			HZ	60				PH	3	
SER.F.	1.25		CODE	K	DES	B		CLASS		B	
NEMA-NOM-EFF	75.5		PF	60							
RATING	40C AMB-CONT										
CC											
DE	6203			ODE	6203						
ENCL	OPEN		SN								
	SFA 3.6-3.4/1.7										

Parts List

Part number	Description	Quantity
SA040549	SA 34F039-0883-C	1.000 ea
RA036433	RA 34F039-0883-C	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3900A07	FR ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3212A02	PU ENDPLATE, MODEL 34 OPEN	1.000 ea
18XN2520A08	1/4-20X1/2 FLAT HD SLTD X	2.000 ea
HW2500A13	KEY, USA #605, WOODRUFF	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1185	LABEL,BRAKE CONNECTION (ON ROLLS)	1.000 ea
WD4006C05	ORANGE, WIRENUT, G-B #13-003 ORGSIZE 73B	3.000 ea
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
48BK7101BP-	1-048-171-01-BP- BRAKE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
27PA1001	PKG GRP, PRINT PK1027A06	1.000 ea

AC Induction Motor Performance Data

Record # 50817

Typical performance - not guaranteed values

Winding: 34WG0883-R001			Type: 3420M		Enclosure: OPEN			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.75	Full Load Torque		2.25 LB-FT			
Volts		208-230/460	Start Configuration		direct on line			
Full Load Amps		3.2-3/1.5	Breakdown Torque		10 LB-FT			
R.P.M.		1725	Pull-up Torque		8.5 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		8.8 LB-FT		
NEMA Design Code		B	KVA Code	K	Starting Current		10 A	
Service Factor (S.F.)		1.25	No-load Current		1.2 A			
NEMA Nom. Eff.		75.5	Power Factor		60	Line-line Res. @ 25°C		17.68 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load			
S.F. Amps		3.6-3.4/1.7	Temp. Rise @ S.F. Load					

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	42	55	64	71	76	71
Efficiency	56.1	69.7	74.7	76.2	76.1	75.2	76.1
Speed	1783	1766	1749	1731	1711	1693	1711
Line amperes	1.2	1.2	1.3	1.5	1.6	1.8	1.6

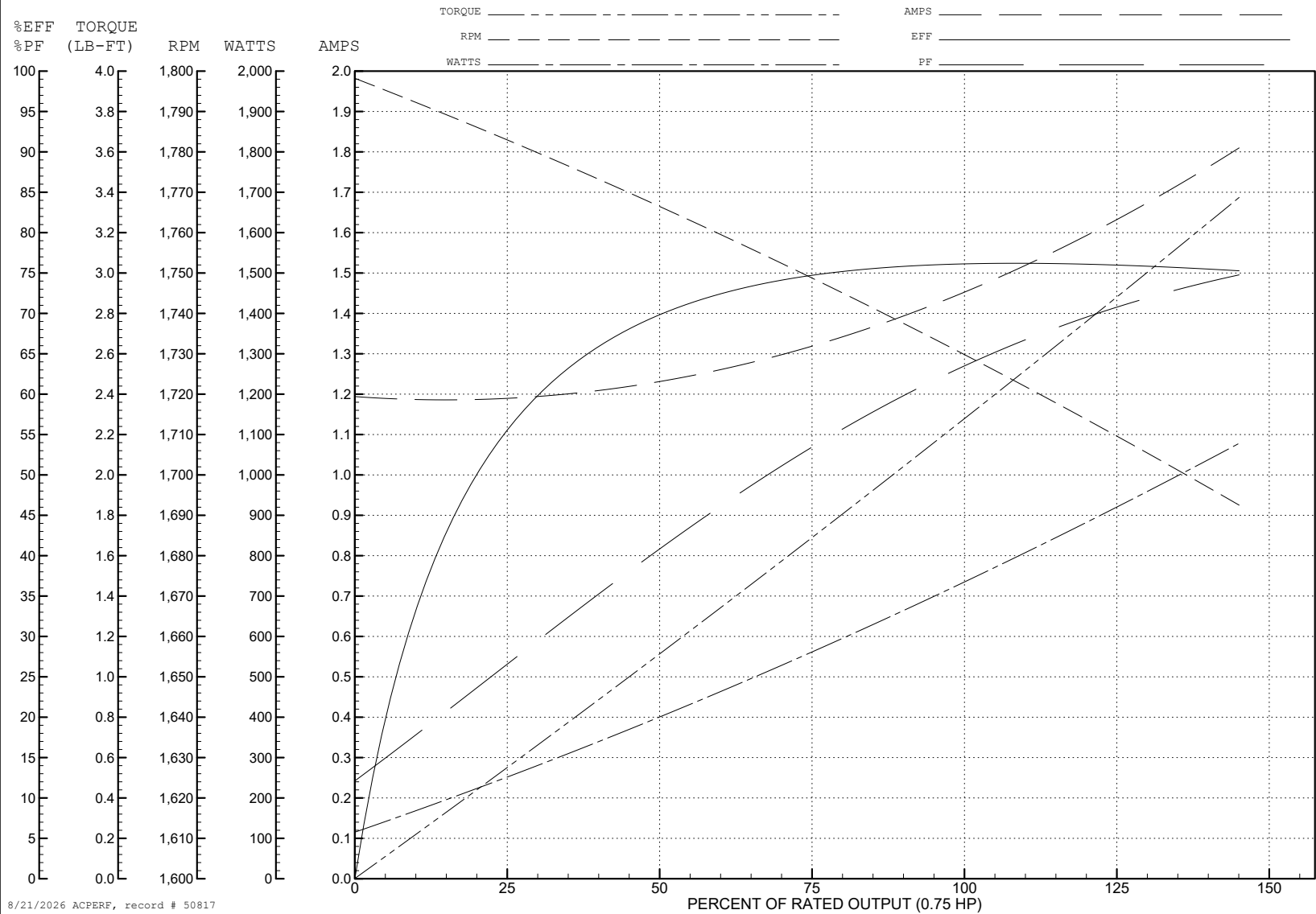
ABB Motors and Mechanical Inc.

WINDING # 34WG0883

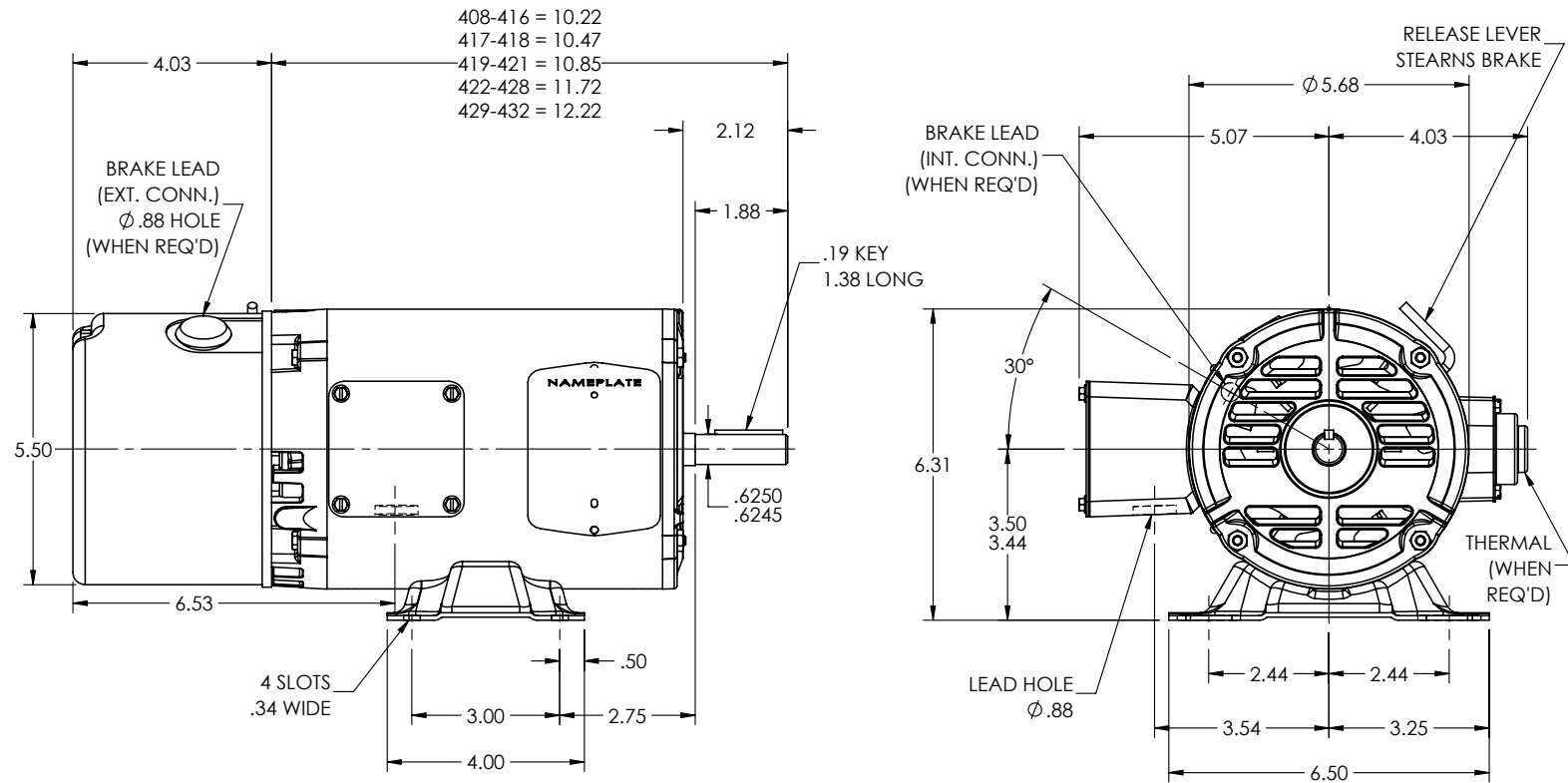
Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1725 RPM 460 V 3420M

TORQUES (LB-FT) : PO=10 PU=8.5 LR=8.8 LRA=10



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

BALDOR - RELIANCE®

34LYF039

MODEL NO. 34LYF039

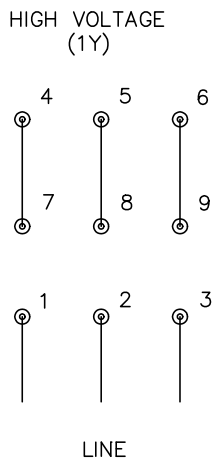
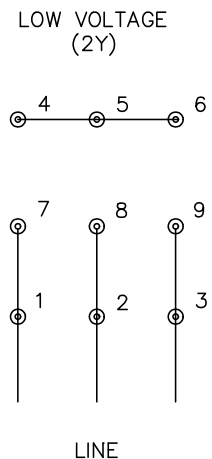
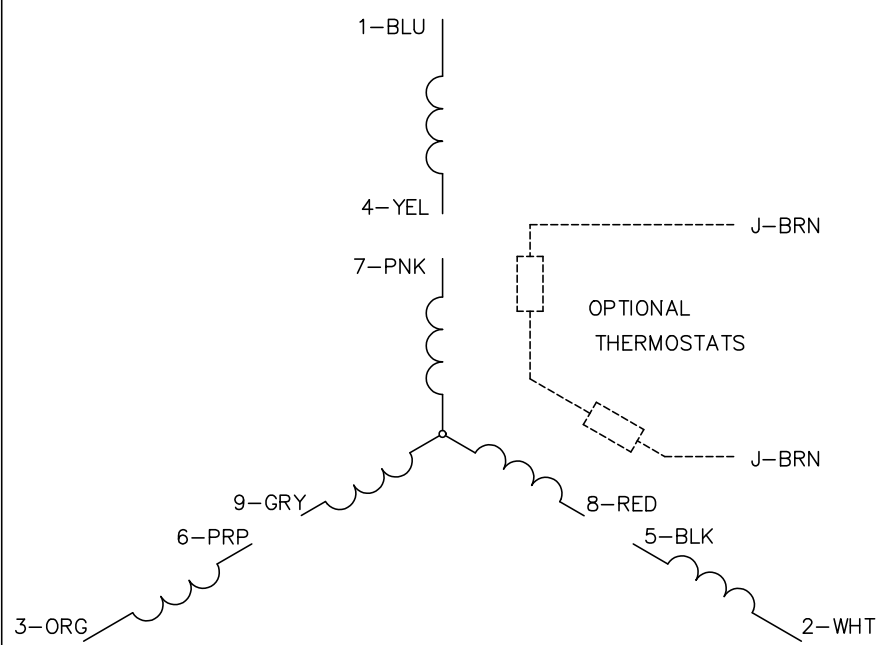
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BY: ENFRAJ0

STD HORZ MODEL 34M NEMA 56 OPEN W/BRAKE

34LYF039

CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005