ABB BALDOR RELIANCE

Customer information packet

M3104-5

.33HP, 1725RPM, 3PH, 60HZ, 56, 3413M, OPEN, F1
Class - None
Division - Not Applicable

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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	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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
Current @ Voltage	.640 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
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	0.6 a
Insulation Class	B
Inverter Code	Not Inverter

Part Detail

Revision	B
Type	AC
Mech. spec.	34F779
Base	
Status	NLA/A
Elec. spec.	34WG0901
Layout	34LYF779
Eff. date	01-30-2015
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	08-09-2011

KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3413M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	9.50 IN
Power Factor	57
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 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.	M3104-5								
SPEC.	34F779-0901								
HP	.33								
VOLTS	575								
AMP	.64								
RPM	1725								
FRAME	56		**HZ**	60			**PH**	3	
SER.F.	1.35	**CODE**	L	**DES**	B	**CLASS**		B	
NEMA-NOM-EFF	68	**PF**	57						
RATING	40C AMB-CONT								
CC									
DE	6203		**ODE**	6203					
ENCL	OPEN	**SN**							
	SFA .7								

AC Induction Motor Performance Data
Record # 50773
Typical performance - not guaranteed values

Winding: 34WG0901-R001 **Type:** 3413M **Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			.33
Volts			575
Full Load Amps			.64
R.P.M.			1725
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1.35
NEMA Nom. Eff.	68	**Power Factor**	57
Rating - Duty			40C AMB-CONT
S.F. Amps			.7

575 V, 60 Hz: Single Voltage Motor	
Full Load Torque	1 LB-FT
Start Configuration	direct on line
Breakdown Torque	4.7 LB-FT
Pull-up Torque	3.35 LB-FT
Locked-rotor Torque	3.75 LB-FT
Starting Current	3.5 A
No-load Current	0.56 A
Line-line Res. @ 25ºC	77.1 Ω
Temp. Rise @ Rated Load	
Temp. Rise @ S.F. Load	

Load Characteristics 575 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	40	50	57	64	69	66
Efficiency	44	59	65	68	68	67	68
Speed	1788	1770	1760	1745	1730	1710	1725
Line amperes	0.56	0.58	0.62	0.64	0.68	0.8	0.72

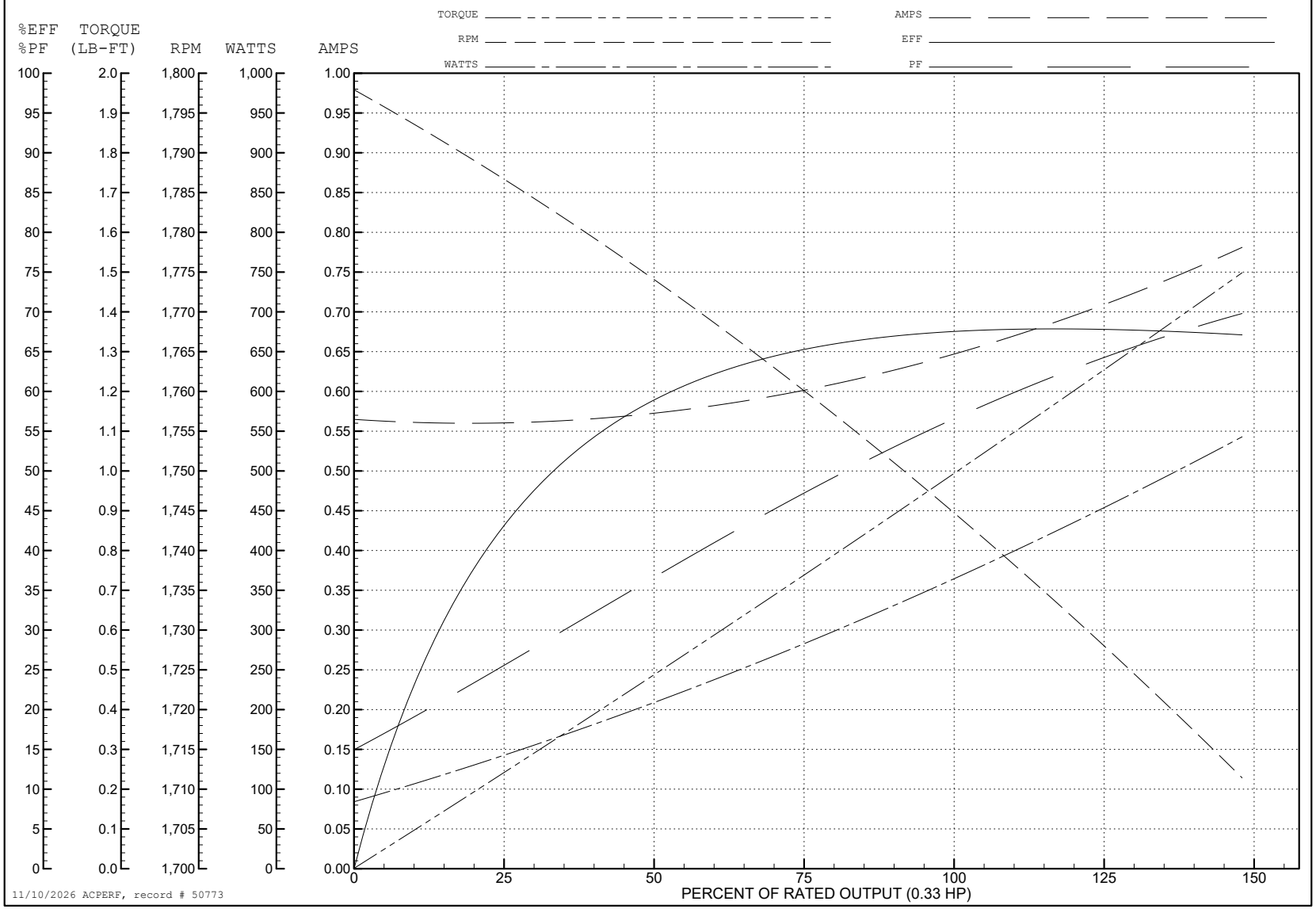
ABB Motors and Mechanical Inc.

WINDING # 34WG0901

0.33 HP 3 PH 60 HZ 1725 RPM 575 V 3413M

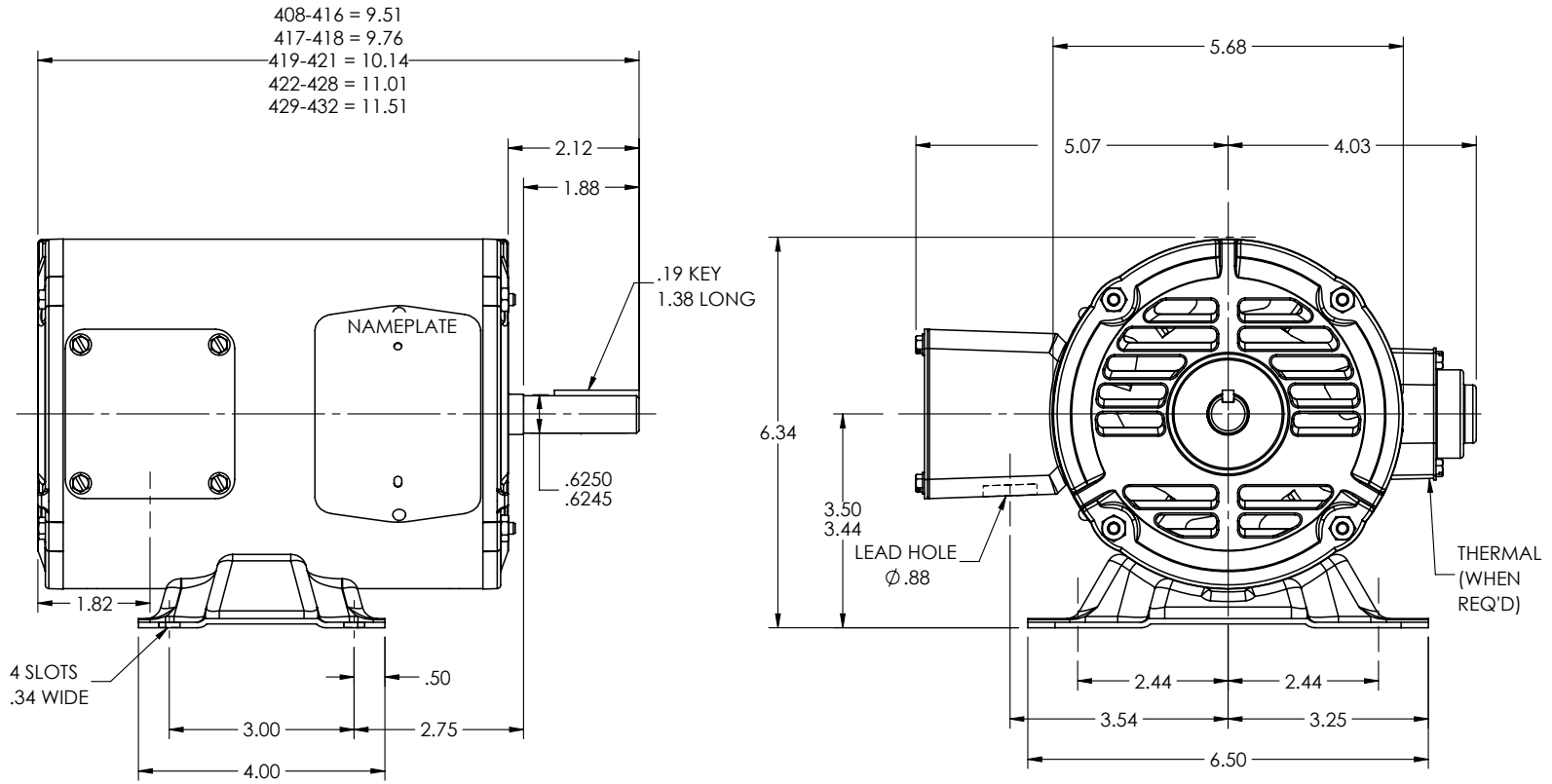
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.7 PU=3.35 LR=3.75 LRA=3.5



11/10/2026 ACPERF, record # 50773

34LYF779



34LYF779

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

REV. DESC: LOAD TO SOLIDWORKS			
REV: E	VERSION: 05	REVISED: 04:43:07 09/21/2022	TDR: 000001194274
34LYF779	MODEL NO. 34LYF779		REF: -
	BY: ENFRAJ0		

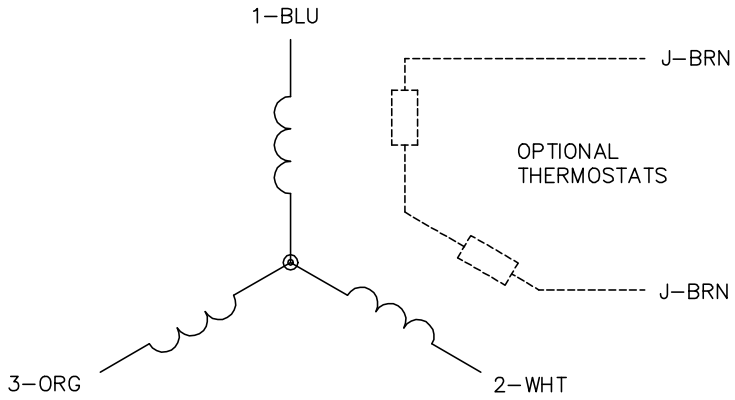
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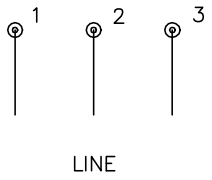
HORZ 34M NEMA 56 OPEN

34LYF779

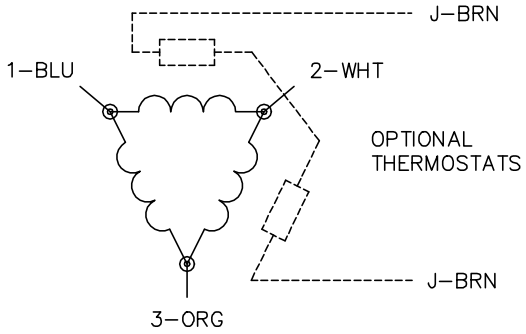
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1