

ABB BALDOR RELIANCE III

Customer information packet

EM31104-5

.33HP, 1725RPM, 3PH, 60HZ, 56, 3416M, 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	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	.500 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	73.4 %
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	0.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	N

Part Detail

Revision	F
Type	AC
Mech. spec.	34F779
Base	
Status	PRD/A
Elec. spec.	34WGR271
Layout	34LYF779
Eff. date	10-29-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	01-12-2015

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	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	9.51 IN
Power Factor	66
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

NP2116L												
CAT.NO.	EM31104-5											
SPEC.	34F779R271G1											
HP	.33											
VOLTS	575											
AMP	.5											
RPM	1725											
FRAME	56			HZ		60		PH		3		
SER.F.	1.35		CODE		N		DES		B		CL	B
NEMA-NOM-EFF	73.4		PF		66							
RATING	40C AMB-CONT											
CC												
DE	6203		ODE		6203							
ENCL	OPEN		SN									
	SFA .6											

Parts List

Part number	Description	Quantity
SA292191	SA 34F779R271G1	1.000 ea
RA278308	RA 34F779R271G1	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 HWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3210A01SP	FR ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3212A02	PU ENDPLATE, MODEL 34 OPEN	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
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
NP2116L	ALUM SUPER-E UL CC	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A01	1.000 ea

AC Induction Motor Performance Data

Record # 48811

Typical performance - not guaranteed values

Winding: 34WGR271-R001			Type: 3416M		Enclosure: OPEN	
Nameplate Data			575 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.33	Full Load Torque		1.01 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		.5	Breakdown Torque		4.53 LB-FT	
R.P.M.		1725	Pull-up Torque		3.16 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		3.79 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		3.77 A	
Service Factor (S.F.)		1.35	No-load Current		0.353 A	
NEMA Nom. Eff.		73.4 Power Factor	Line-line Res. @ 25°C		66.3 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		18°C	
S.F. Amps		.6	Temp. Rise @ S.F. Load		23°C	
			Locked-rotor Power Factor		58.6	
			Rotor inertia		0.0381 LB-FT2	

Load Characteristics 575 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	45	57	66	73	78	75
Efficiency	55.6	69.9	74.7	77	76.5	76.4	76.5
Speed	1786	1772	1758	1743	1726	1709	1719
Line amperes	0.364	0.396	0.438	0.492	0.556	0.629	0.585

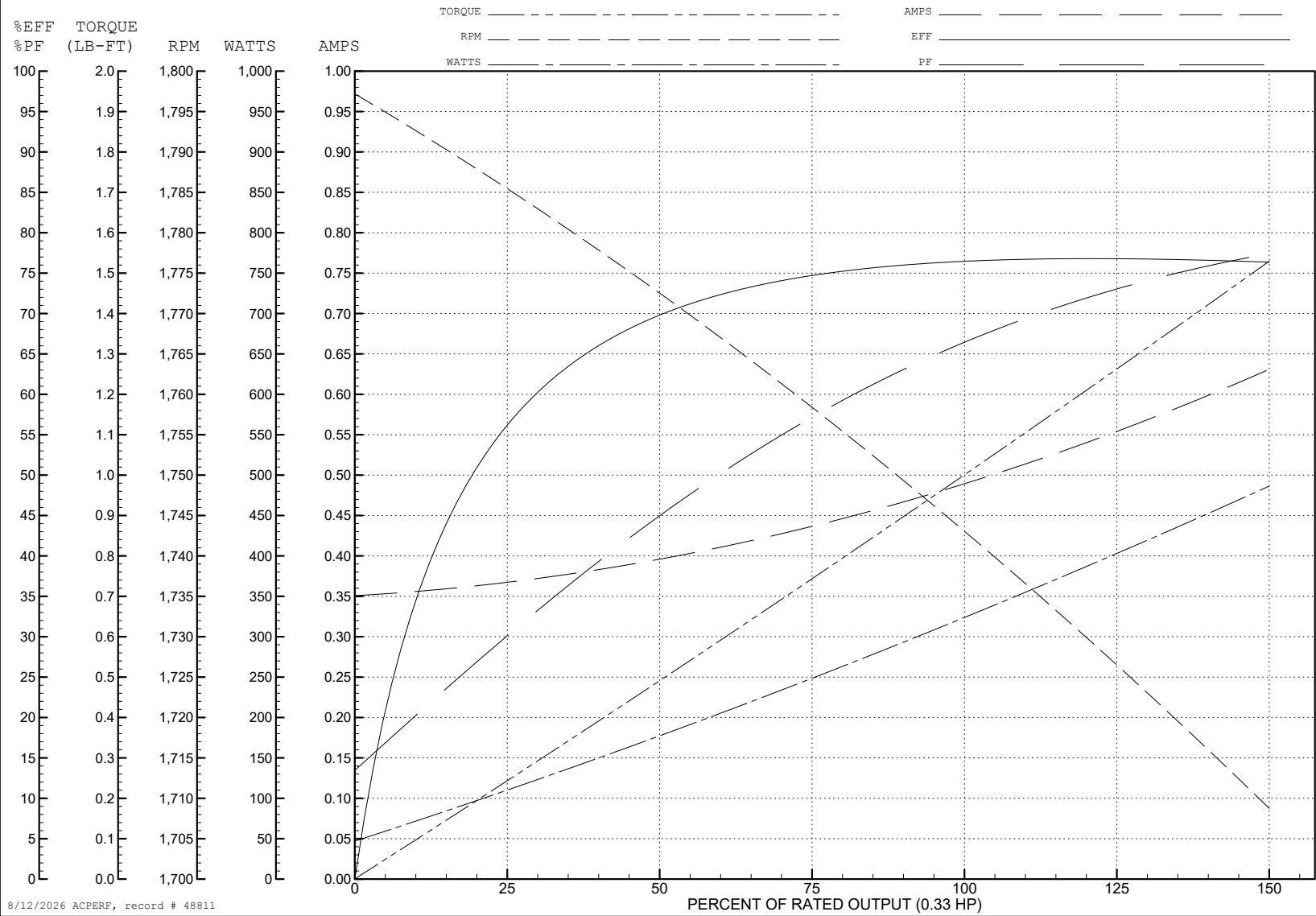
ABB Motors and Mechanical Inc.

WINDING # 34WGR271

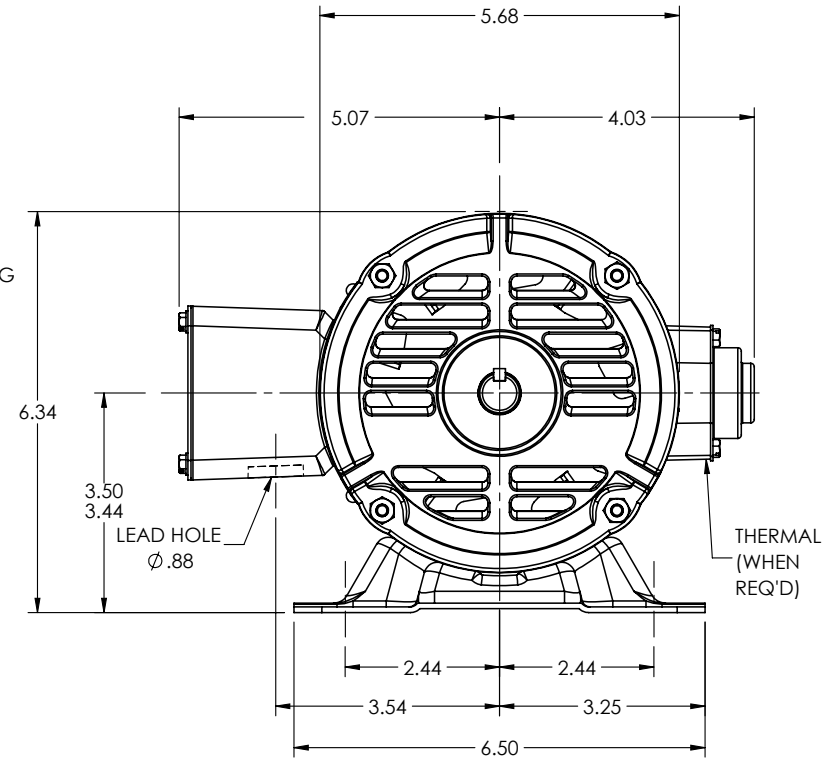
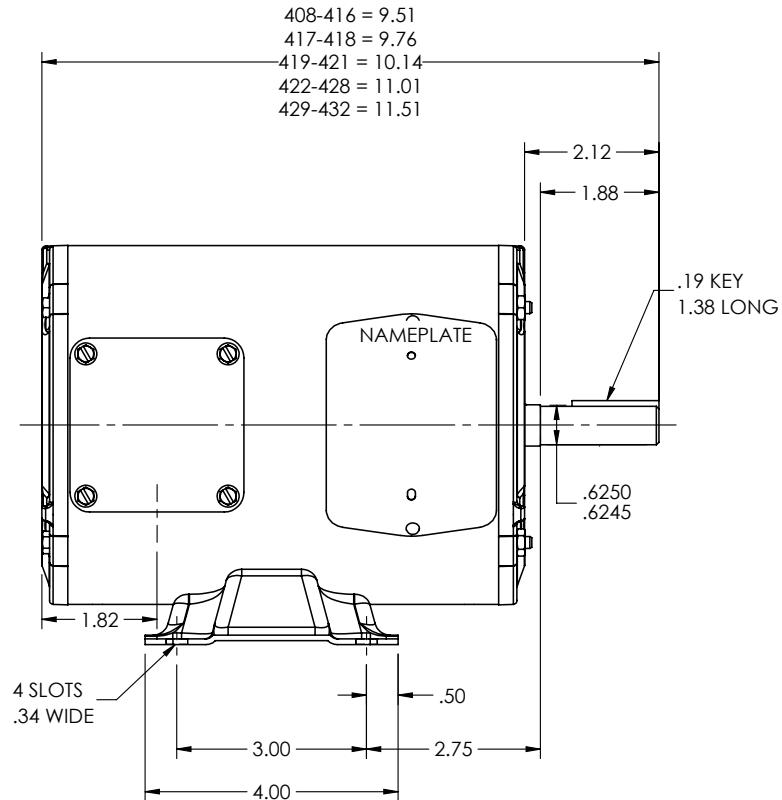
Typical performance - not guaranteed values.

0.33 HP 3 PH 60 HZ 1725 RPM 575 V 3416M

TORQUES (LB-FT) : PO=4.53 PU=3.16 LR=3.79 LRA=3.77



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

BY: ENFRAJ0

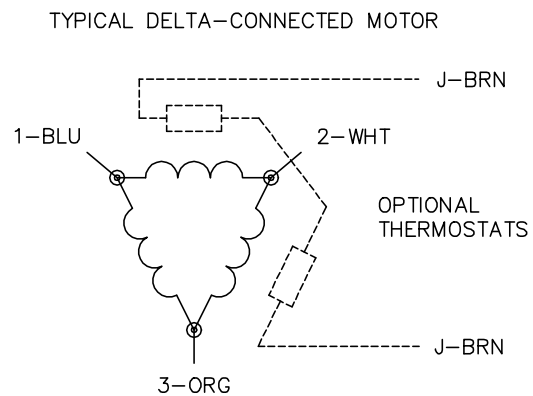
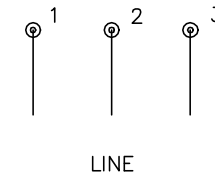
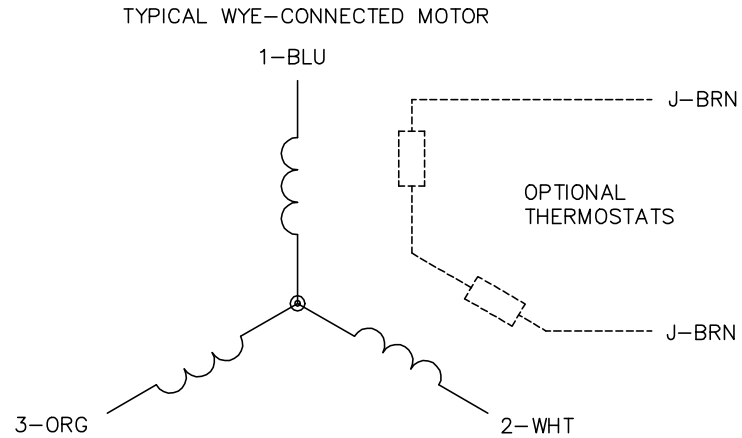
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BALDOR - RELIANCE®

HORZ 34M NEMA 56 OPEN

34LYF779

CD0006


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

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1