

ABB BALDOR RELIANCE III

Customer information packet

EM31108-5

.5HP, 1725RPM, 3PH, 60HZ, 56, 3424M, OPEN, F1, N

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	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	.700 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.2 %
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	0.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L

Part Detail

Revision	H
Type	AC
Mech. spec.	34F779
Base	
Status	PRD/A
Elec. spec.	34WGR272
Layout	34LYF779
Eff. date	10-29-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	01-13-2015

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	3424M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.01 IN
Power Factor	78
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

NP2116L											
CAT.NO.	EM31108-5										
SPEC.	34F779R272G1										
HP	.5										
VOLTS	575										
AMP	.7										
RPM	1725										
FRAME	56			HZ		60		PH		3	
SER.F.	1.25		CODE		L	DES		B	CL		B
NEMA-NOM-EFF	78.2		PF		78						
RATING	40C AMB-CONT										
CC											
DE	6203		ODE		6203						
ENCL	OPEN		SN								
	SFA .8										

AC Induction Motor Performance Data

Record # 48819

Typical performance - not guaranteed values

Winding: 34WGR272-R001			Type: 3424M		Enclosure: OPEN	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		.5	Full Load Torque		1.57 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		.7	Breakdown Torque		5.12 LB-FT	
R.P.M.		1725	Pull-up Torque		3.71 LB-FT	
Hz		60	Phase		3	
NEMA Design Code		B	KVA Code		L	
Service Factor (S.F.)		1.25	No-load Current		0.369 A	
NEMA Nom. Eff.		78.2	Power Factor		78	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		.8	Temp. Rise @ S.F. Load		31°C	
			Locked-rotor Power Factor		52.8	
			Rotor inertia		0.0572 LB-FT2	

Load Characteristics 575 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	56	68	76	81	84	81
Efficiency	67.9	76.8	78.8	78.5	76.9	74.9	76.9
Speed	1782	1766	1748	1728	1705	1681	1705
Line amperes	0.398	0.46	0.542	0.646	0.772	0.908	0.772

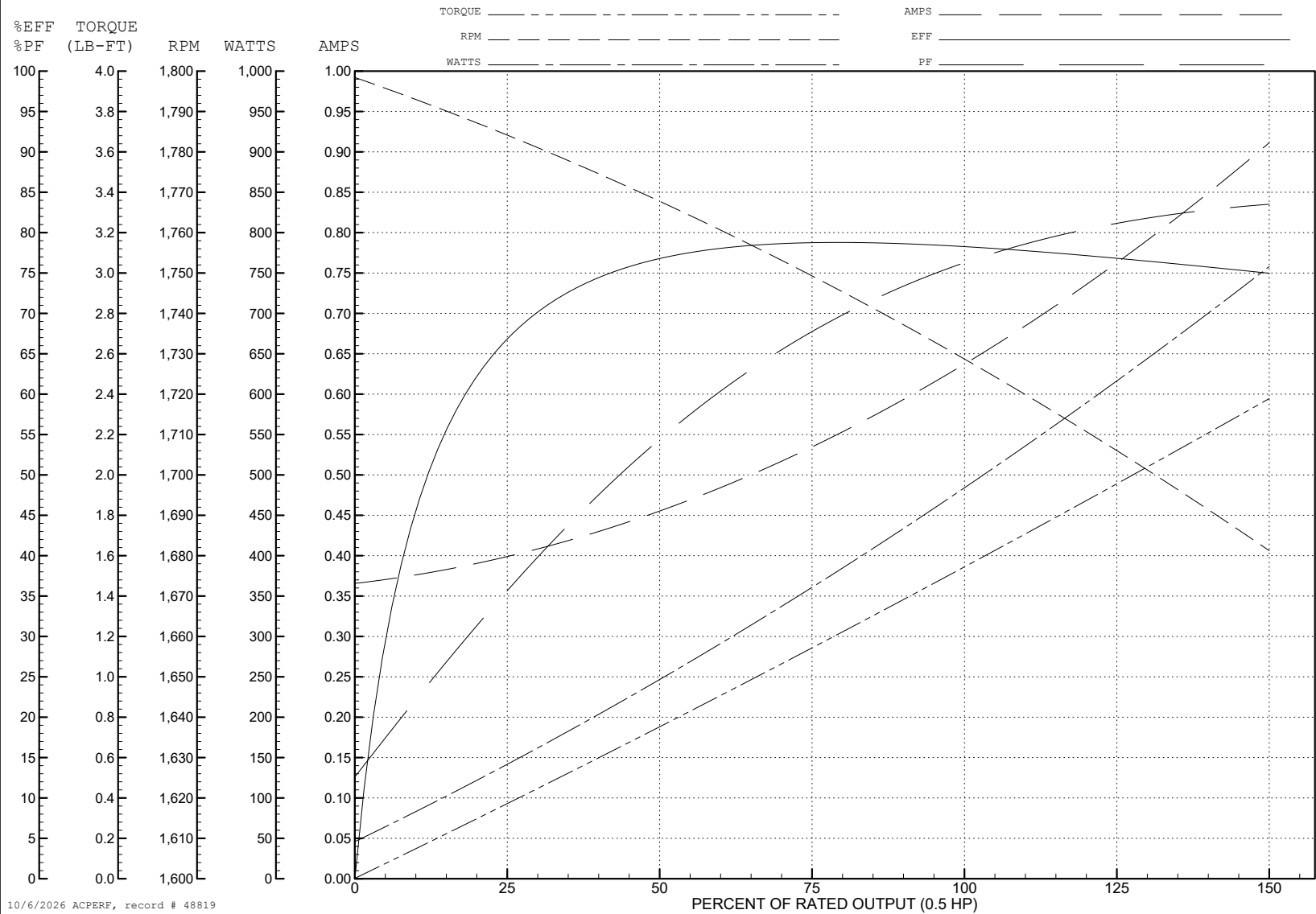
ABB Motors and Mechanical Inc.

WINDING # 34WGR272

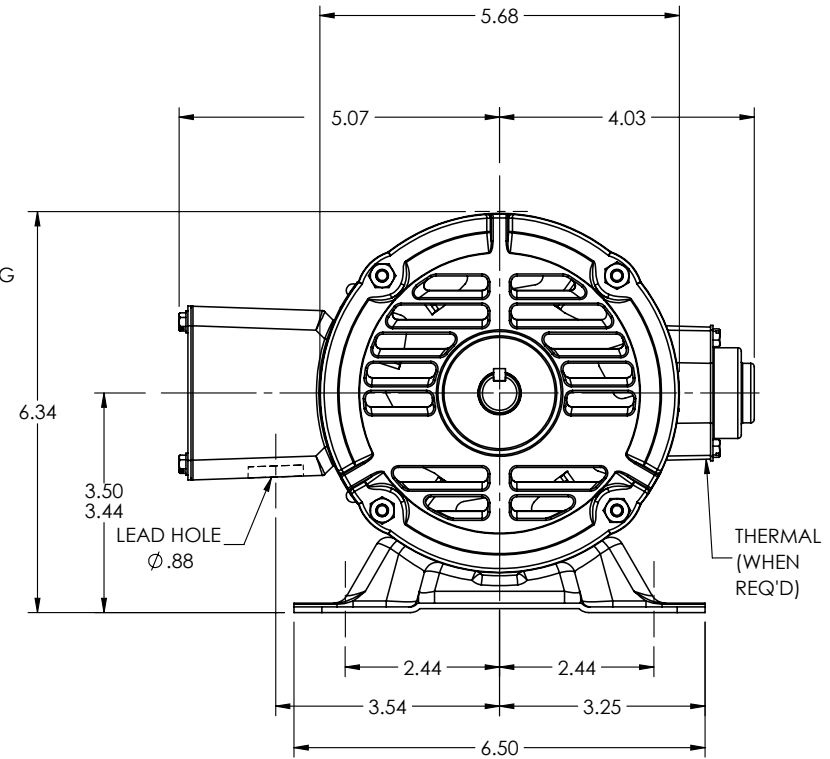
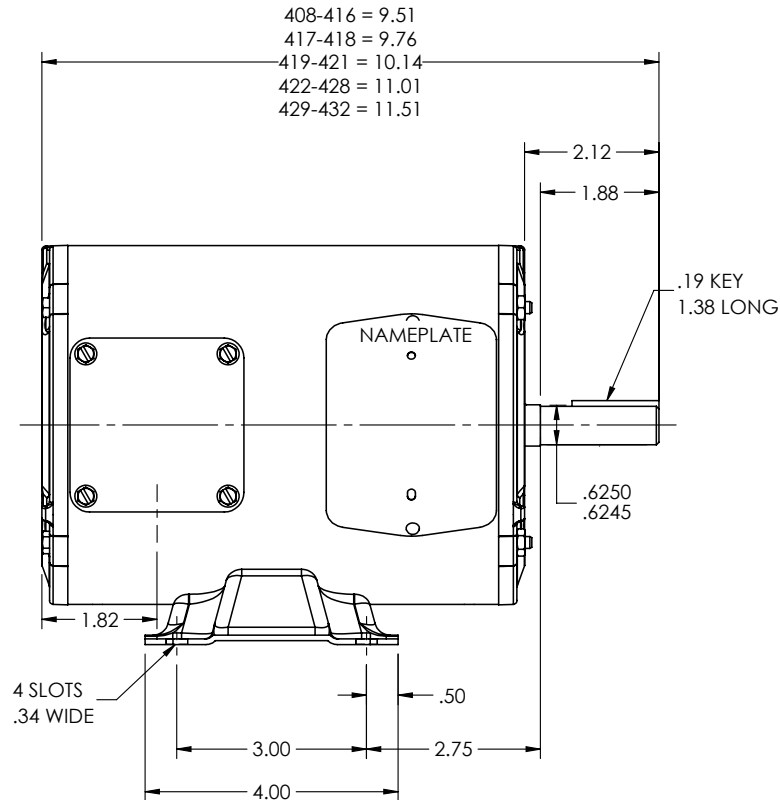
Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1725 RPM 575 V 3424M

TORQUES (LB-FT): PO=5.12 PU=3.71 LR=5 LRA=4.82



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

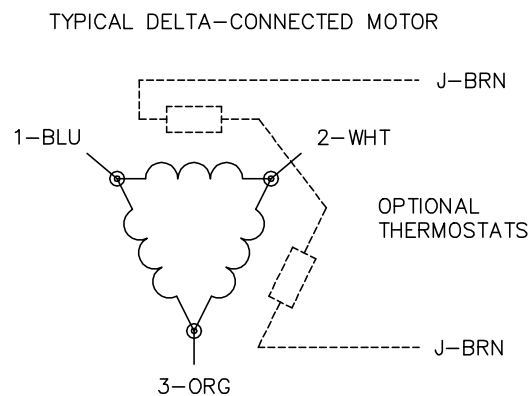
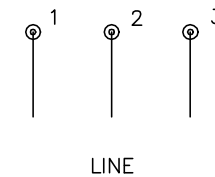
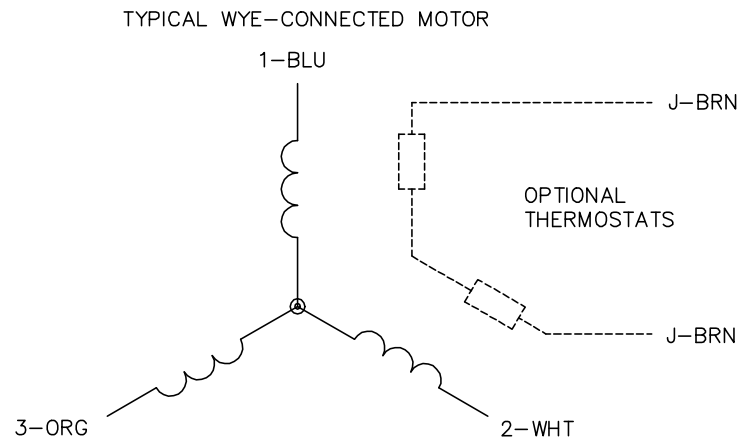
REF: -

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

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