ABB BALDOR RELIANCE

Customer information packet

M3116-5

1HP, 1725RPM, 3PH, 60HZ, 56, 3424M, 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	1.000 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	1.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
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	1.3 a
Insulation Class	B
Inverter Code	Not Inverter

Part Detail

Revision	M
Type	AC
Mech. spec.	34B061
Base	
Status	NLA/A
Elec. spec.	34WGX973
Layout	34LYB061
Eff. date	01-30-2015
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	01-01-0001

KVA Code	K
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	11.75 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
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.								
SPEC.	34B61X973G1							
HP	1							
VOLTS	575							
AMP	1.3							
RPM	1725							
FRAME	56	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	B	
NEMA-NOM-EFF	78.5	**PF**	72					
RATING	40C AMB-CONT							
CC								
DE	6203	**ODE**	6203					
ENCL	OPEN	**SN**						

AC Induction Motor Performance Data
Record # 7720
Typical performance - not guaranteed values

Winding: 34WGX973-R002	**Type:** 3424M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1	**Full Load Torque**	3 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.3	**Breakdown Torque**	10.6 LB-FT
R.P.M.			1725	**Pull-up Torque**	6.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	7.3 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	7.4 A
Service Factor (S.F.)			1.15	**No-load Current**	0.95 A
NEMA Nom. Eff.	78.5	**Power Factor**	72	**Line-line Res. @ 25ºC**	27 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
				Locked-rotor Power Factor	58
				Rotor inertia	0.0572 LB-FT2

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	48	60	69	74	77	72
Efficiency	61.2	73.8	78.3	79.9	80.1	79.4	80
Speed	1782	1766	1749	1731	1712	1690	1720
Line amperes	0.98	1.06	1.19	1.35	1.54	1.77	1.46

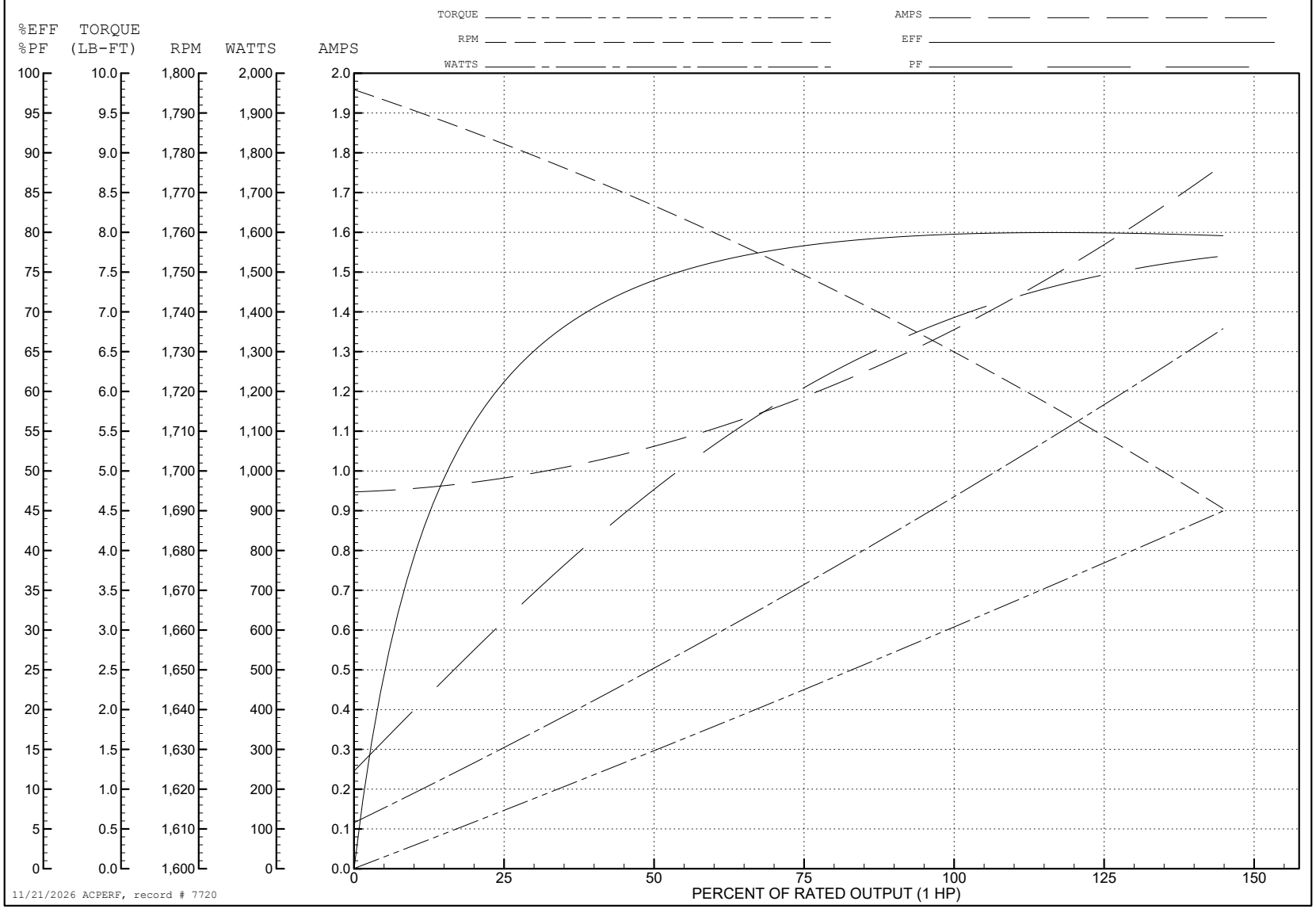
ABB Motors and Mechanical Inc.

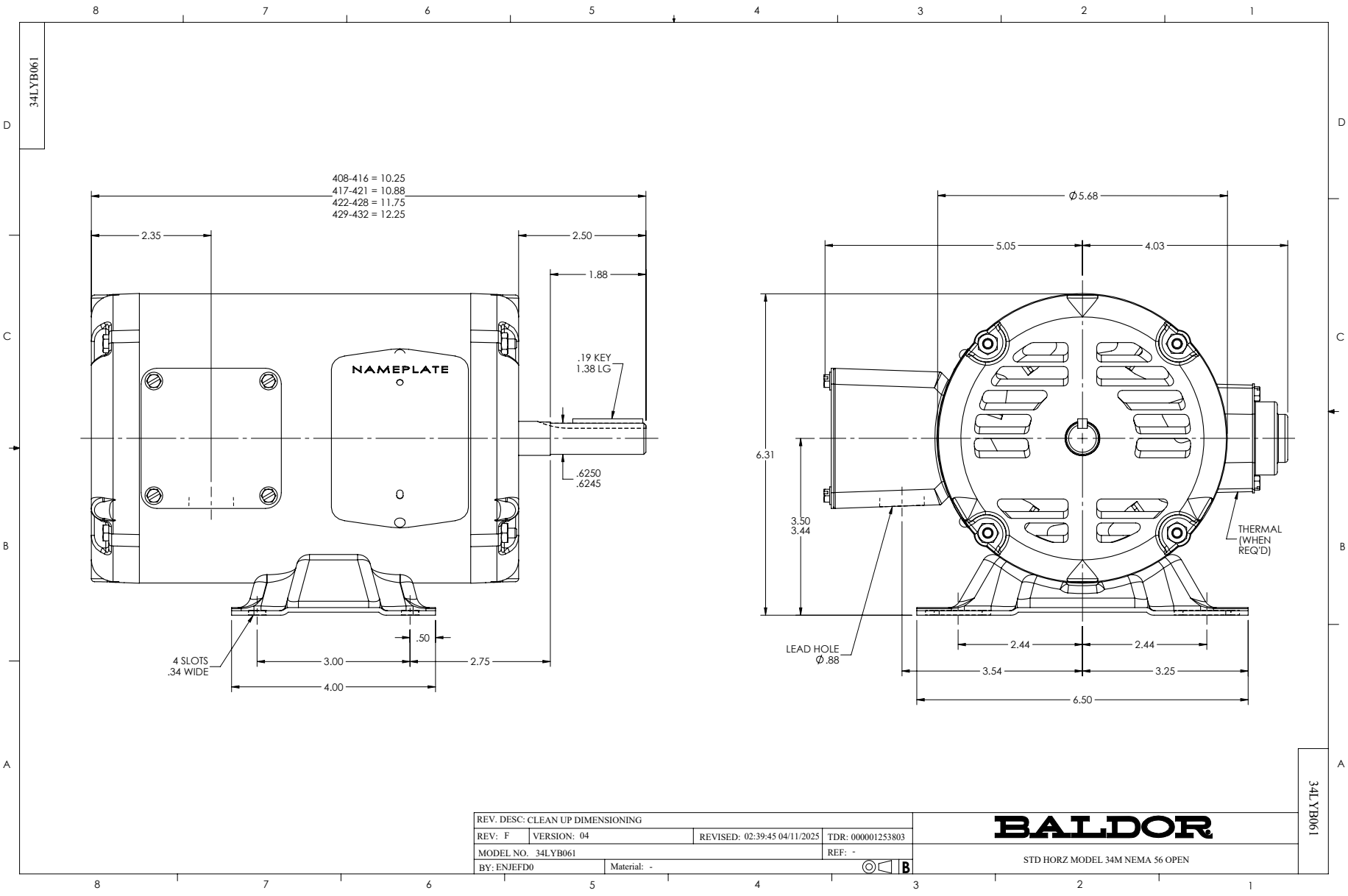
WINDING # 34WGX973

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

Typical performance - not guaranteed values.

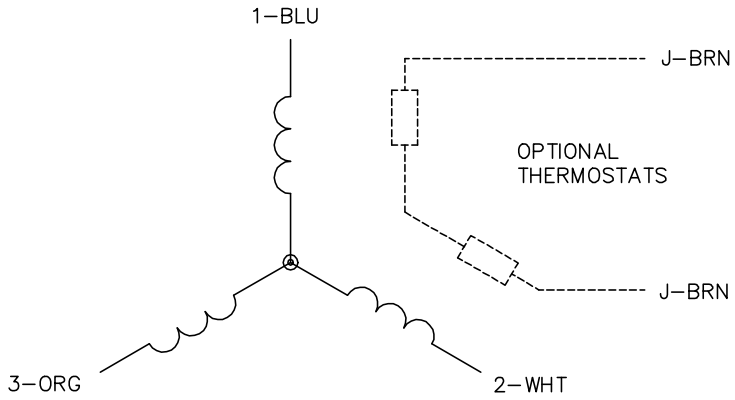
TORQUES(LB-FT): PO=10.6 PU=6.6 LR=7.3 LRA=7.4

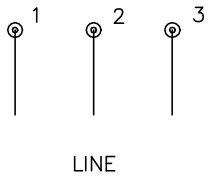



34LYB061
408-416 = 10.25
417-421 = 10.88
422-428 = 11.75
429-432 = 12.25
2.35
2.50
1.88
NAMEPLATE
.19 KEY
1.38 LG
.6250
.6245
.50
4 SLOTS
.34 WIDE
3.00
2.75
4.00
Ø5.68
5.05
4.03
6.31
3.50
3.44
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø.88
2.44
2.44
3.54
3.25
6.50
REV. DESC: CLEAN UP DIMENSIONING
REV: F
VERSION: 04
REVISED: 02:39:45 04/11/2025
TDR: 000001253803
MODEL NO. 34LYB061
REF: -
BY: ENJEFD0
Material: -
BALDOR
STD HORZ MODEL 34M NEMA 56 OPEN
34LYB061

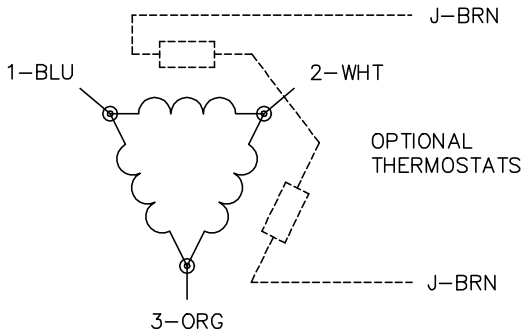
CD0006

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