ABB BALDOR RELIANCE

Customer information packet

M3541-57

.75HP, 2850 IP44RPM, 3PH, 50HZ, 56, 3420M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ
	400.0 V @ 50 HZ
Agency Approvals	C UR US
	CE
	CURUS
	UKCA
	WEEE
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	2.400 A @ 230.0 V
	1.400 A @ 400.0 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
Front Face Code	Standard

Part Detail

Revision	T
Type	AC
Mech. spec.	34A061
Base	
Status	PRD/A
Elec. spec.	34WGY004
Layout	34LYA061
Eff. date	03-24-2025
CD Diagram	CD0022
Poles	02
Leads	6#18
Proprietary	False
Created date	09-09-2011

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3420M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.35 IN
Power Factor	75
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	2850 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

NP1372L											
CAT.NO.	M3541-57										
SPEC.	34A061Y004G3										
HP	.75/KW .56										
VOLTS	230/400										
AMP	2.4/1.4 SFA 2.8/1.6										
R.P.M. (1/MIN)	2850										
FRAME	56		**HZ**	50			**PH**	3			
SER.F.	1.25	**CODE**	M	**DES**	B	**CL**	F				
NEMA-NOM-EFF	75.5	**PF**	75								
RATING	40C AMB-S1 CONT										
CC			IP44 KG11 IC411								
DE	6203		**ODE**	6203							
ENCL	TEFC	**SN**									
	IE2-50HZ-74.5(75%)69.5(50%)										

AC Induction Motor Performance Data
Record # 35179
Typical performance - not guaranteed values

Winding: 34WGY004-R003	**Type:** 3420M	**Enclosure:** TEFC

Nameplate Data				**400 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	1.35 LB-FT
Volts			230/400	**Start Configuration**	direct on line
Full Load Amps			2.4/1.4	**Breakdown Torque**	6.47 LB-FT
R.P.M.			2850	**Pull-up Torque**	4.81 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	5.24 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	10.3 A
Service Factor (S.F.)			1.25	**No-load Current**	0.849 A
NEMA Nom. Eff.	75.5	**Power Factor**	69	**Line-line Res. @ 25ºC**	16.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
S.F. Amps			2.8/1.6	**Temp. Rise @ S.F. Load**	
				Locked-rotor Power Factor	77
				Rotor inertia	0.0186 LB-FT2

Load Characteristics 400 V, 50 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	56	68	75	80	85	80
Efficiency	52.9	69.5	74.5	77.2	77.4	77.2	77.4
Speed	2967	2945	2920	2897	2872	2844	2872
Line amperes	0.917	1.05	1.21	1.38	1.58	1.77	1.58

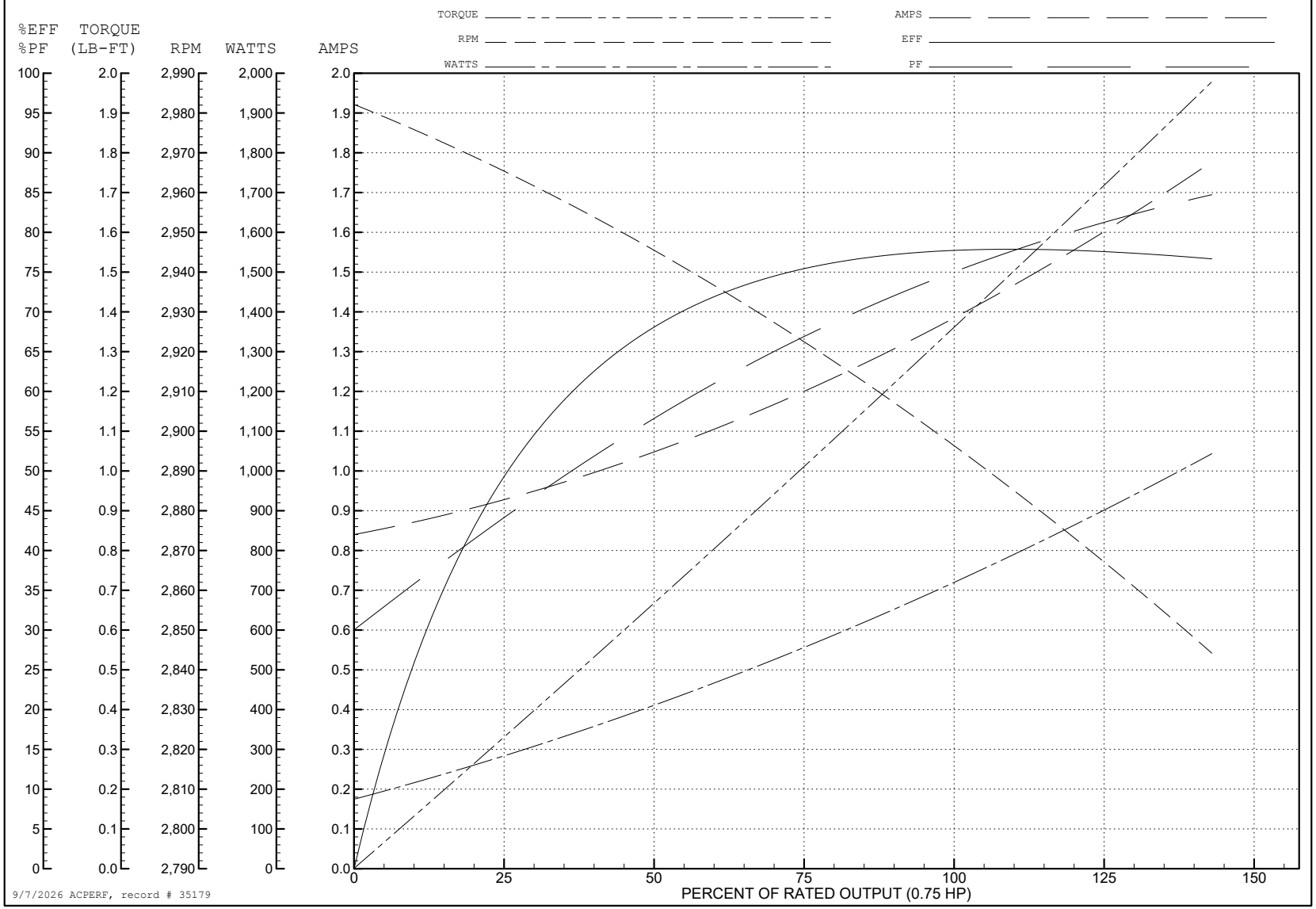
ABB Motors and Mechanical Inc.

WINDING # 34WGY004

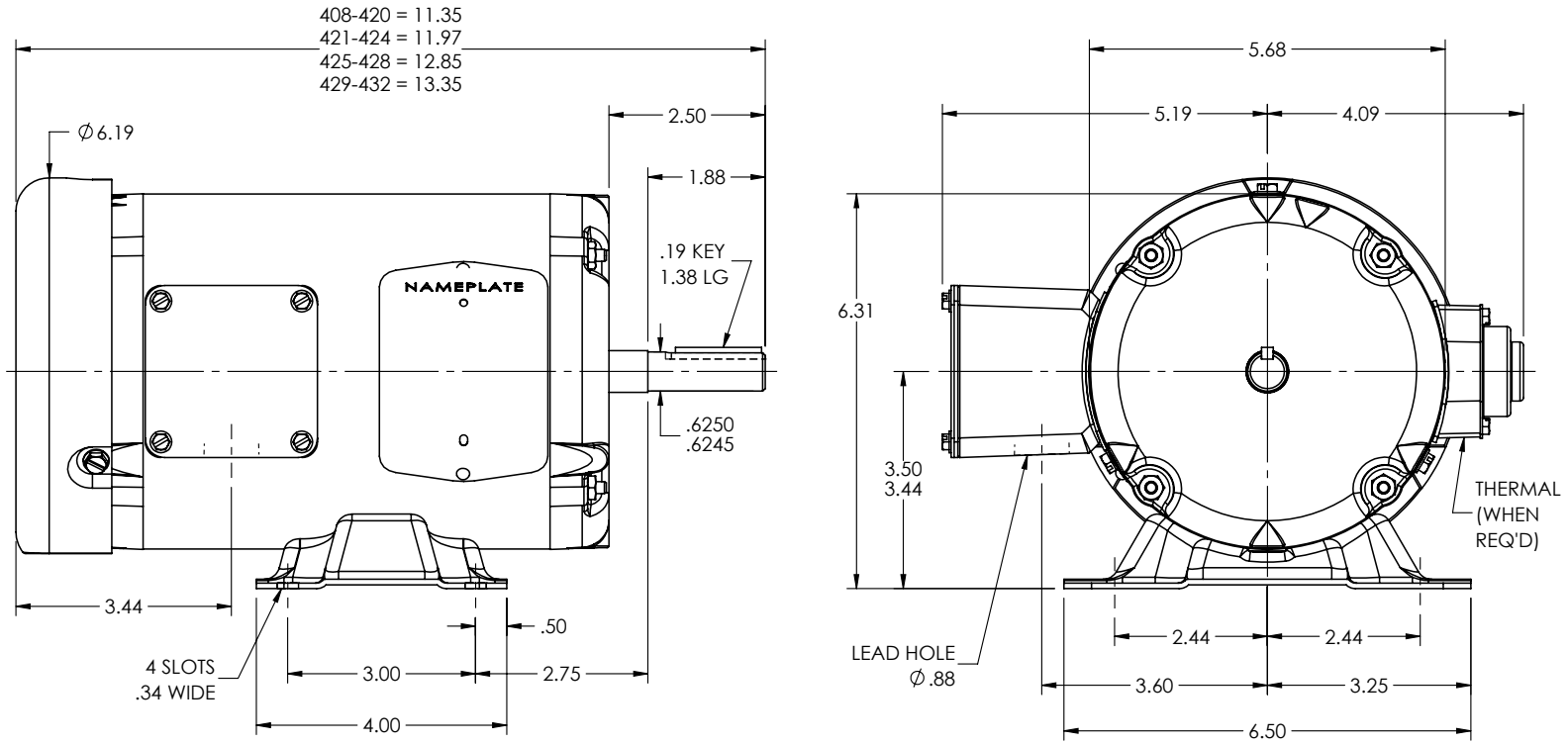
0.75 HP 3 PH 50 HZ 2850 RPM 400 V 3420M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=6.47 PU=4.81 LR=5.24 LRA=10.3



34LYA061



34LYA061

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

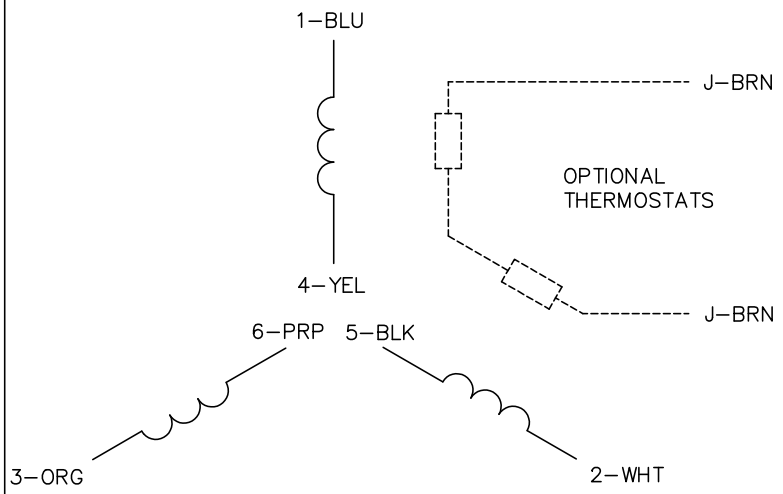
REV. DESC: CLEAN UP DIMENSIONING			
REV: N	VERSION: 06	REVISED: 02:32:44 11/26/2024	TDR: 000001245356
34LYA061	MODEL NO. 34LYA061		REF: -
	BY: ENJEFD0		

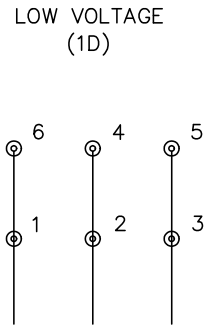
BALDOR - RELIANCE®

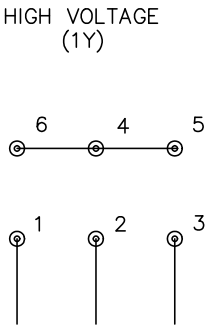
STD HORZ 34M NEMA 56 TEFC

34LYA061

CD0022







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			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 01/21/99 3:54	TDR: 0171435
CD0022		FILE: AAA00005144	MDL: –
		MTL: –	3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022