ABB BALDOR RELIANCE

Customer information packet

M3542-57

.75HP, 1425 IP44RPM, 3PH, 50HZ, 56, 3428M
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	1500 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	3.100 A @ 230.0 V
	1.800 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	S
Type	AC
Mech. spec.	34A061
Base	
Status	PRD/A
Elec. spec.	34WG3996
Layout	34LYA061
Eff. date	09-25-2025
CD Diagram	CD0022
Poles	04
Leads	6#18
Proprietary	False
Created date	09-08-2011

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
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	3428M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.85 IN
Power Factor	59
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	1425 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

	NP2717L								
CAT NO	M3542-57								
SPEC.	34A061-3996G1								
HP	.75/KW.56					**PH**	3		
VOLTS	230/400								
AMP	3.1/1.8								
R.P.M. (1/MIN)	1425								
FRAME	56		**HZ**	50			**I.P.**	44	
SER.F.	1.25	**CODE**	L	**DES**	B	**CL**	F		
NEMA-NOM-EFF	75.5							**% (100%)**	
PF	59								
RATING	40C AMB-S1 CONT			**CC**					
DE BRG	6203		**ODE**	6203					
ENCL	TEFC	**SN**							
BLANK	SFA 3.5/2								
	KG15 IC411								
	IE2 76.0(75%)69.9(50%)								

AC Induction Motor Performance Data
Record # 35183
Typical performance - not guaranteed values

Winding: 34WG3996-R006	**Type:** 3428M	**Enclosure:** TEFC

Nameplate Data				**400 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	2.71 LB-FT
Volts			230/400	**Start Configuration**	direct on line
Full Load Amps			3.1/1.8	**Breakdown Torque**	13.3 LB-FT
R.P.M.			1425	**Pull-up Torque**	8.9 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	9.78 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	10.5 A
Service Factor (S.F.)			1.25	**No-load Current**	1.4 A
NEMA Nom. Eff.	75.5	**Power Factor**	59	**Line-line Res. @ 25ºC**	12.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
S.F. Amps			3.5/2	**Temp. Rise @ S.F. Load**	
				Locked-rotor Power Factor	60
				Rotor inertia	0.0667 LB-FT2

Load Characteristics 400 V, 50 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	26	39	50	59	67	72	67
Efficiency	55.9	69.9	76	78.5	80.1	80.4	80.1
Speed	1487	1476	1465	1452	1439	1425	1439
Line amperes	1.42	1.49	1.6	1.74	1.9	2.1	1.9

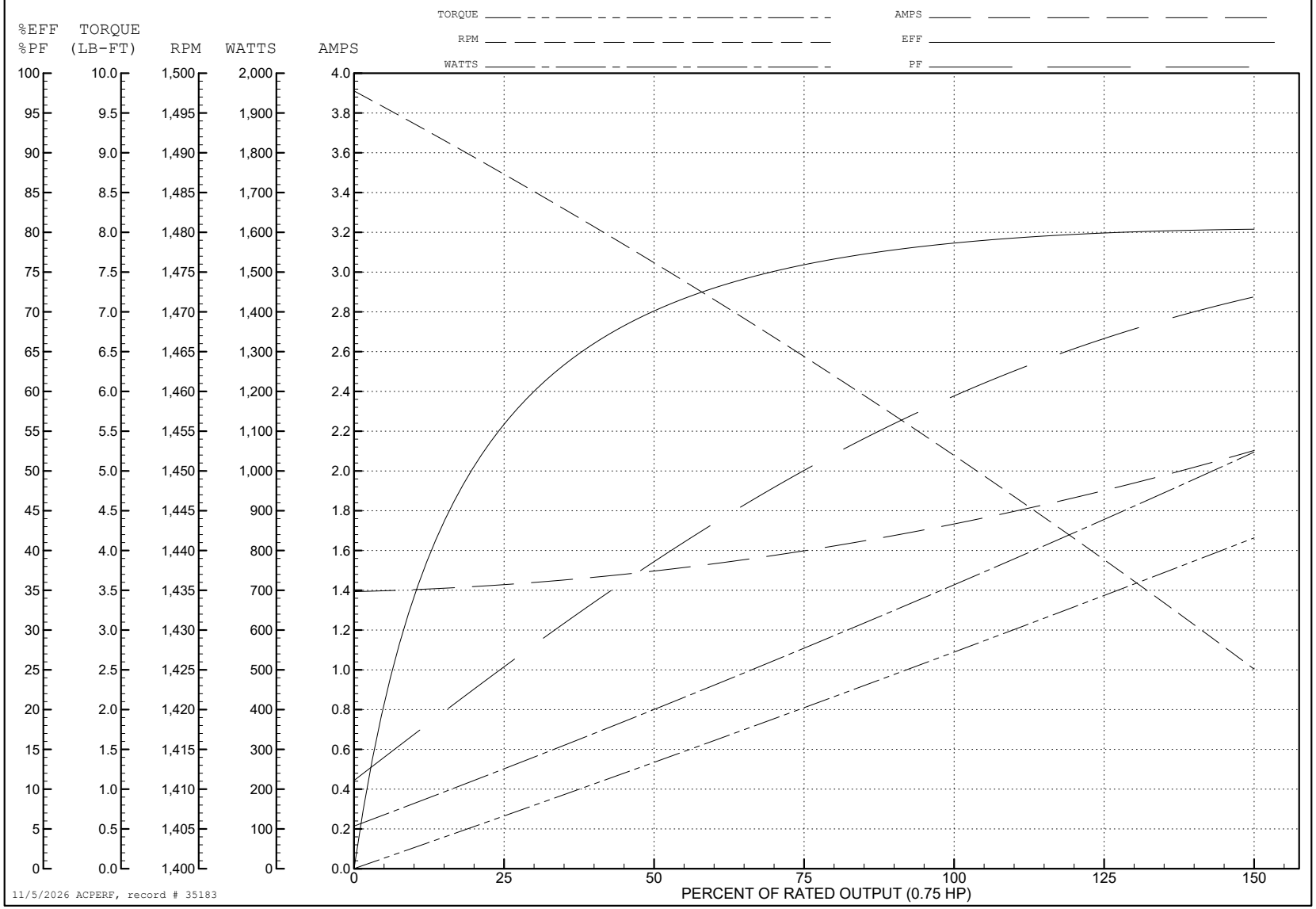
ABB Motors and Mechanical Inc.

WINDING # 34WG3996

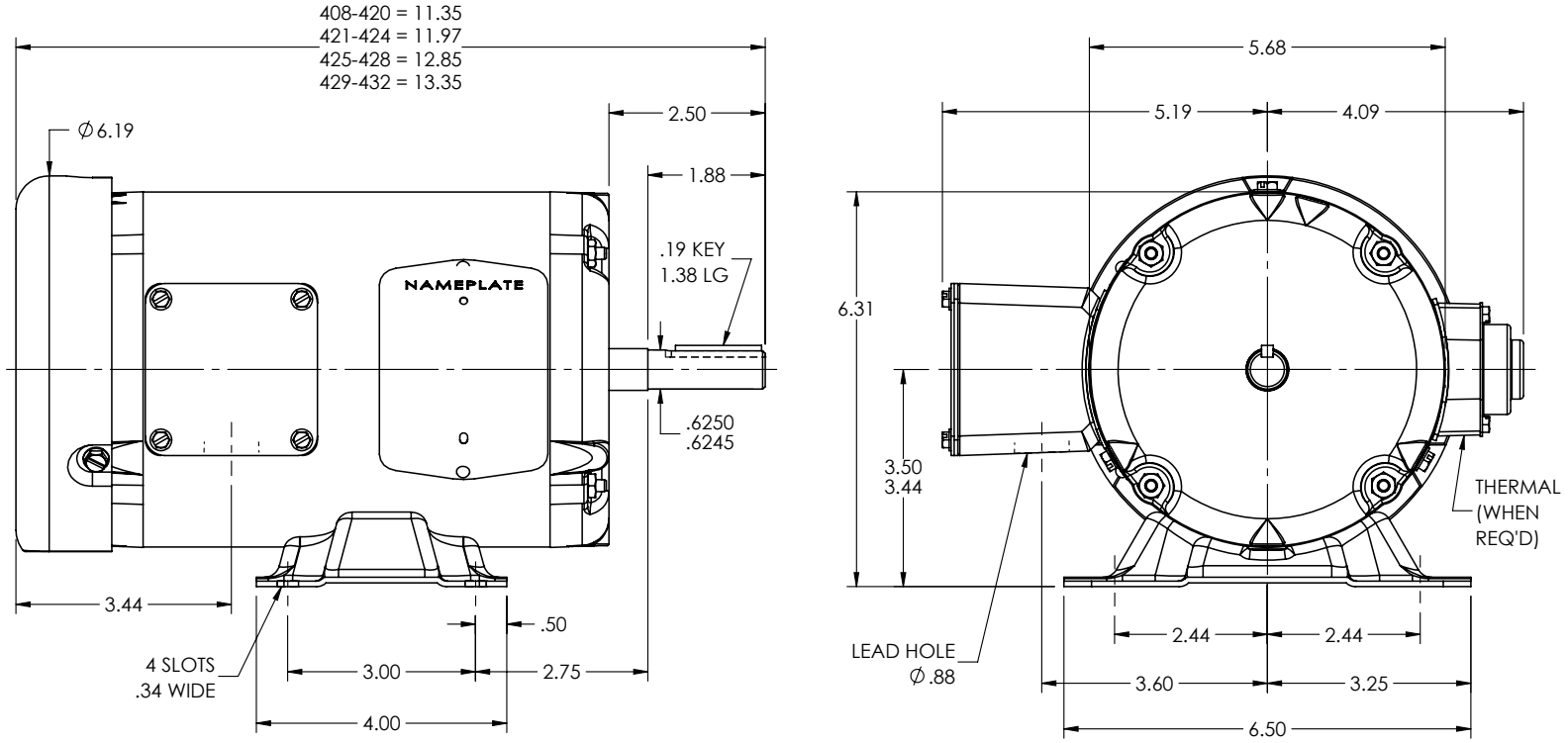
0.75 HP 3 PH 50 HZ 1425 RPM 400 V 3428M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=13.3 PU=8.9 LR=9.78 LRA=10.5



34LYA061



34LYA061

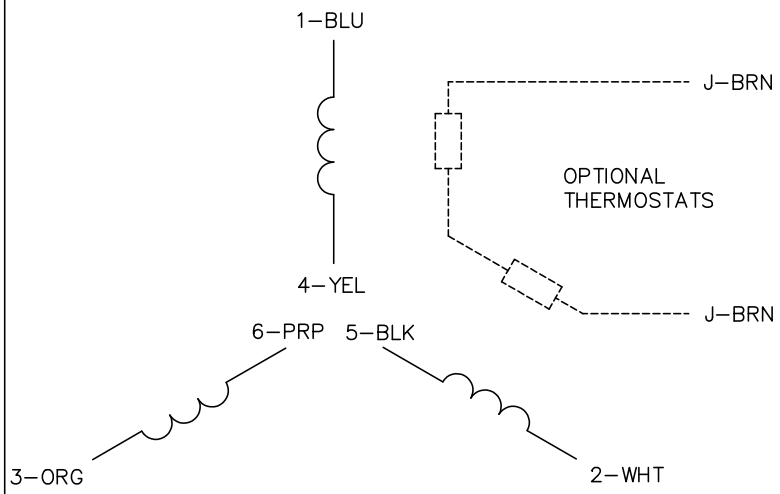
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

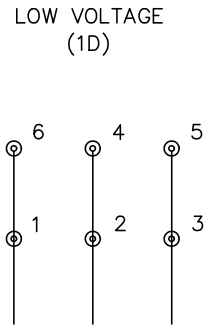
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34LYA061	MODEL NO. 34LYA061		REF: -
	BY: ENJEFD0		

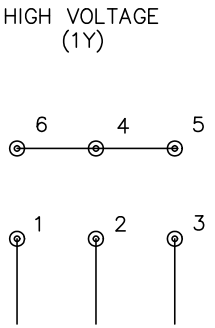
BALDOR - RELIANCE®

STD HORZ 34M NEMA 56 TEFC

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