BALDOR • RELIANCE

Product Information Packet

M3538-57

.5HP,1425RPM,3PH,50HZ,56,3420M,TEFC,F1,N

Part Detail

Revision:	N	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	34WGX268	**CD Diagram:**	CD0022	**Mfg Plant:**	
Mech. Spec:	34A061	**Layout:**	34LYA061	**Poles:**	04	**Created Date:**	09-07-2011
Base:	RG	**Eff. Date:**	07-12-2022	**Leads:**	6#18		

Specs

Catalog Number:	M3538-57	**Heater Indicator:**	No Heater
Enclosure:	TEFC	**Insulation Class:**	B
Frame:	56	**Inverter Code:**	Not Inverter
Frame Material:	Steel	**KVA Code:**	K
Motor Letter Type:	Three Phase	**Lifting Lugs:**	No Lifting Lugs
Output @ Frequency:	.500 HP @ 50 HZ	**Locked Bearing Indicator:**	No Locked Bearing
Synchronous Speed @ Frequency:	1500 RPM @ 50 HZ	**Motor Lead Quantity/Wire Size:**	6 @ 18 AWG
Voltage @ Frequency:	230.0 V @ 50 HZ	**Motor Lead Exit:**	Ko Box
	400.0 V @ 50 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	3420M
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	CE	**Power Factor:**	67
	CSA	**Product Family:**	General Purpose
	UR	**Pulley End Bearing Type:**	Ball
	WEEE	**Pulley Face Code:**	Standard
Auxillary Box:	No Auxillary Box	**Pulley Shaft Indicator:**	Standard
Auxillary Box Lead Termination:	None	**Rodent Screen:**	None
Base Indicator:	Rigid	**RoHS Status:**	ROHS COMPLIANT

Bearing Grease Type:	Polyrex EM (-20F +300F)
Blower:	None
Current @ Voltage:	1.700 A @ 230.0 V
	1.000 A @ 400.0 V
Design Code:	B
Drip Cover:	No Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None

Shaft Extension Location:	Pulley End
Shaft Ground Indicator:	No Shaft Grounding
Shaft Rotation:	Reversible
Shaft Slinger Indicator:	No Slinger
Speed Code:	Single Speed
Motor Standards:	NEMA
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.	M3538-57								
SPEC.	34A061X268G1								
HP	.5 /KW .37								
VOLTS	230/400								
AMP	1.7/1 SFA 2/1.2								
RPM	1425 1/MIN IP44 IC411 12KG								
FRAME	56		**HZ**	50			**PH**	3	
SER.F.	1.25	**CODE**	K	**DES**	B	**CL**	B		
NEMA-NOM-EFF	73	**PF**	67						
RATING	40C AMB-S1 CONT								
CC						**USABLE AT 208V**			
DE	6203		**ODE**	6203					
ENCL	TEFC	**SN**							
	IE2-71.8(75%)66.3(50%)								

AC Induction Motor Performance Data
Record # 35147
Typical performance - not guaranteed values

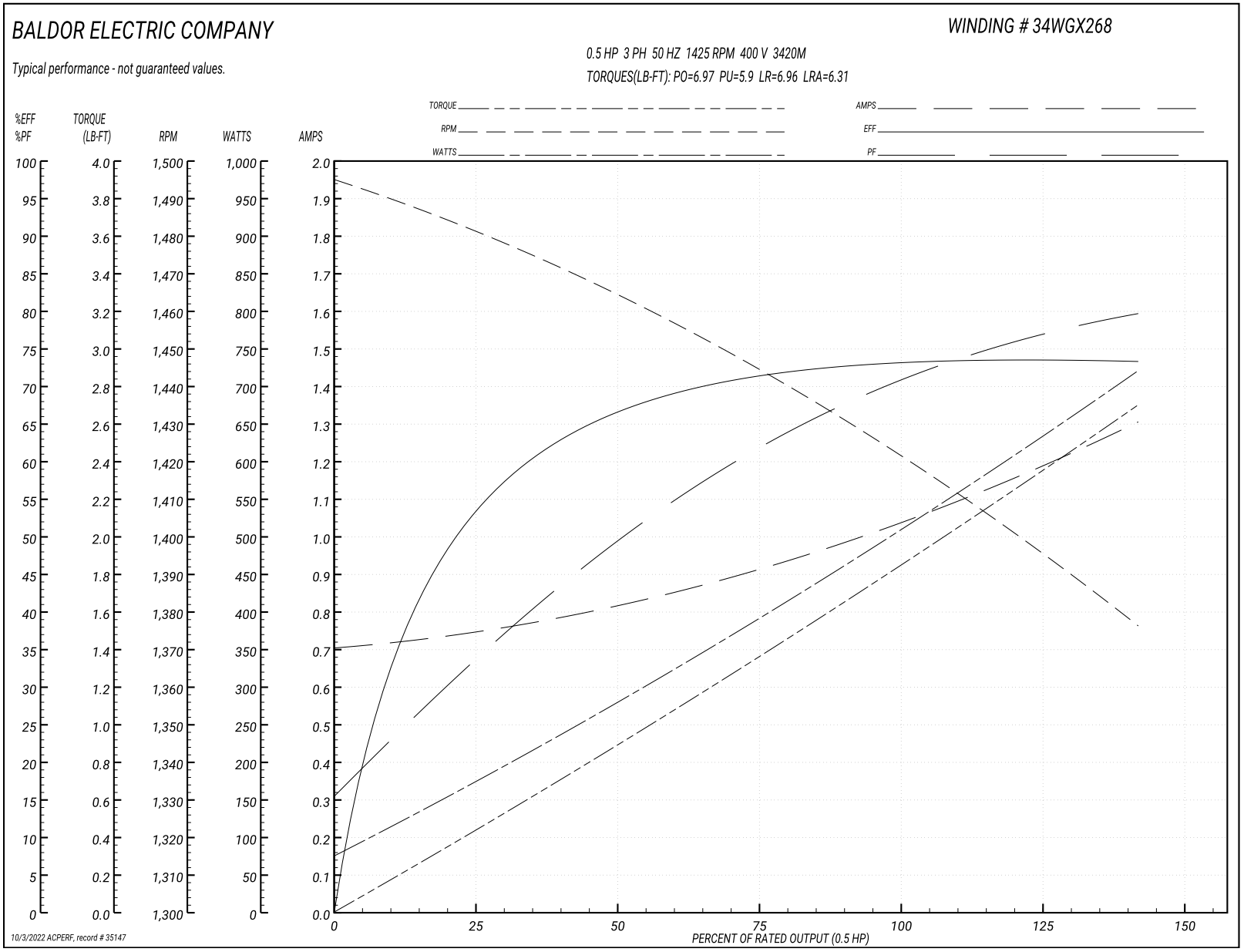
Winding: 34WGX268-R008 **Type:** 3420M **Enclosure:** TEFC

Nameplate Data				400 V, 50 Hz: High Voltage Connection	
Rated Output (HP)			.5	**Full Load Torque**	1.8 LB-FT
Volts			230/400	**Start Configuration**	direct on line
Full Load Amps			1.7/1	**Breakdown Torque**	6.97 LB-FT
R.P.M.			1425	**Pull-up Torque**	5.9 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	6.96 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	6.31 A
Service Factor (S.F.)			1.25	**No-load Current**	0.704 A
NEMA Nom. Eff.	73	**Power Factor**	67	**Line-line Res. @ 25ºC**	27.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps			2/1.2	**Temp. Rise @ S.F. Load**	55°C
				Locked-rotor Power Factor	64
				Rotor inertia	0.0476 LB-FT2

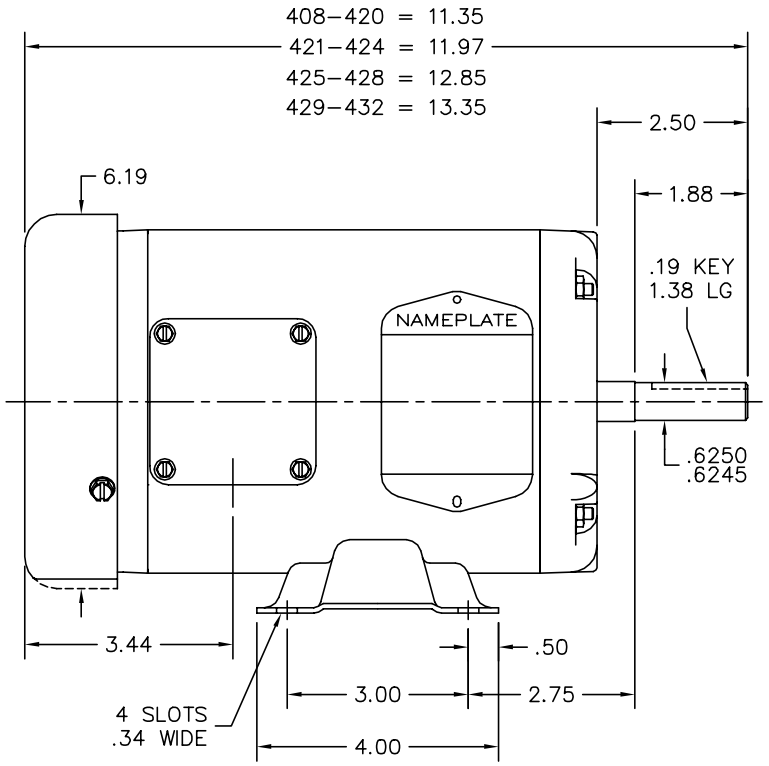
Load Characteristics 400 V, 50 Hz, 0.5 HP

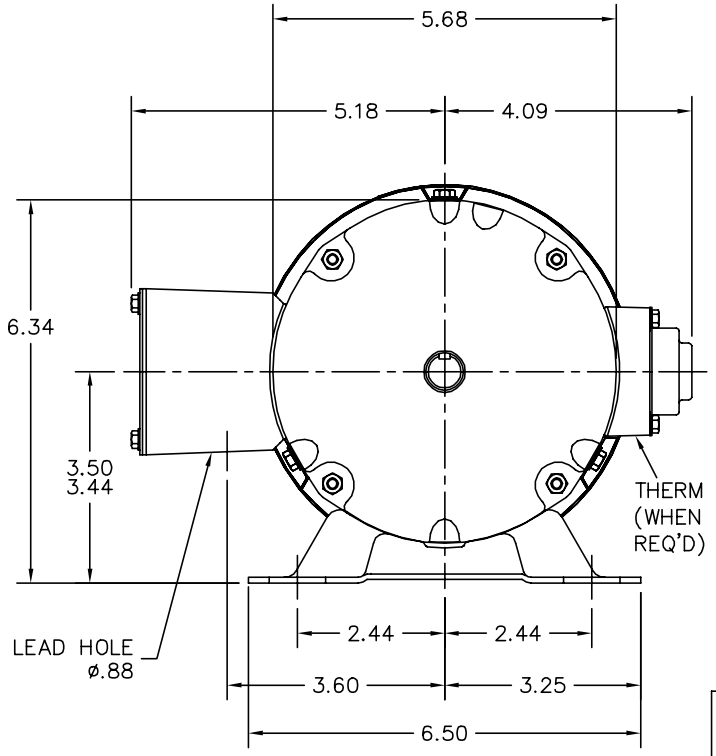
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	50	62	69	77	80	77
Efficiency	52.4	66.3	71.8	73.3	73.9	73.1	73.9
Speed	1479	1465	1448	1418	1406	1374	1406
Line amperes	0.749	0.819	0.901	1.04	1.15	1.31	1.15

Performance Graph at 400V, 50Hz, 0.5HP Typical performance - Not guaranteed values



34LYA061





34LYA061

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

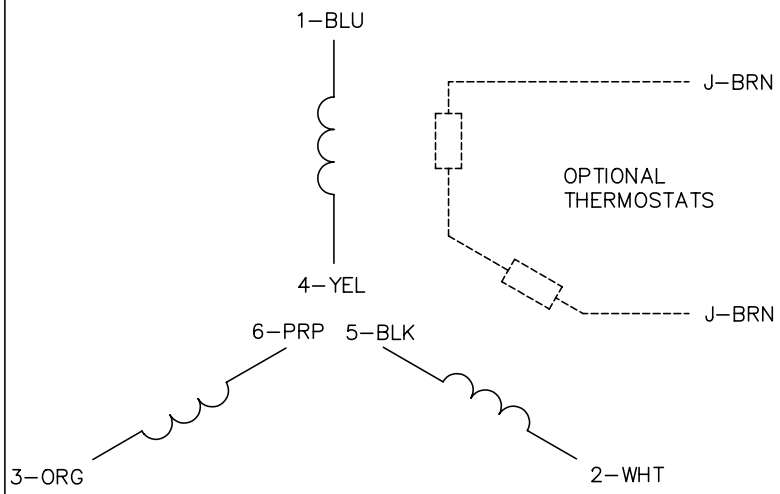
REV. DESC: UPDAYE LAYOUT GRAPHICS		
REV. LTR: L	VERSION: 04	TDR: 000001189834
FILE: \AAA\00000\561	REVISED: 02:15:07 04/25/2022	BY: ENJEFDO
MTL: –		

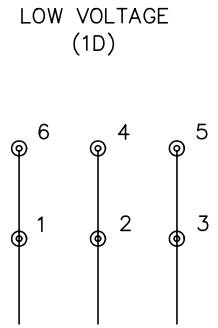
BALDOR - RELIANCE®

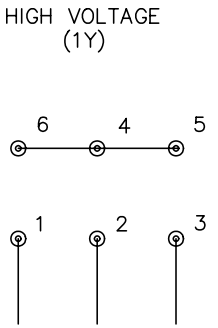
STD HORZ 34M NEMA 56 TEFC

SH 1 of 1

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