

BALDOR® • RELIANCE

Product Information Packet

M3108-57

.5HP,1425 IP23RPM,3PH,50HZ,56,3420M,OPEN

Part Detail

Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	34WGX268	CD Diagram:	CD0022	Mfg Plant:	
Mech. Spec:	34F779	Layout:	34LYF779	Poles:	04	Created Date:	09-07-2011
Base:	RG	Eff. Date:	08-23-2016	Leads:	6#18		

Specs

Catalog Number:	M3108-57	Insulation Class:	B
Enclosure:	OPEN	Inverter Code:	Not Inverter
Frame:	56	KVA Code:	K
Frame Material:	Steel	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:	400.0 V @ 50 HZ	Motor Lead Exit:	Ko Box
	230.0 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
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	1.000 A @ 400.0 V	Shaft Ground Indicator:	No Shaft Grounding
	1.700 A @ 230.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1372L

CAT.NO.	M3108-57										
SPEC.	34F779X268G1										
HP	.5										
VOLTS	230/400										
AMP	1.7/1										
RPM	1425 IP23										
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-CONT										
CC	USABLE AT 208V										
DE	6203				ODE	6203					
ENCL	OPEN			SN							
	SFA 2/1.2										

AC Induction Motor Performance Data

Record # 35149 - Typical performance - not guaranteed values

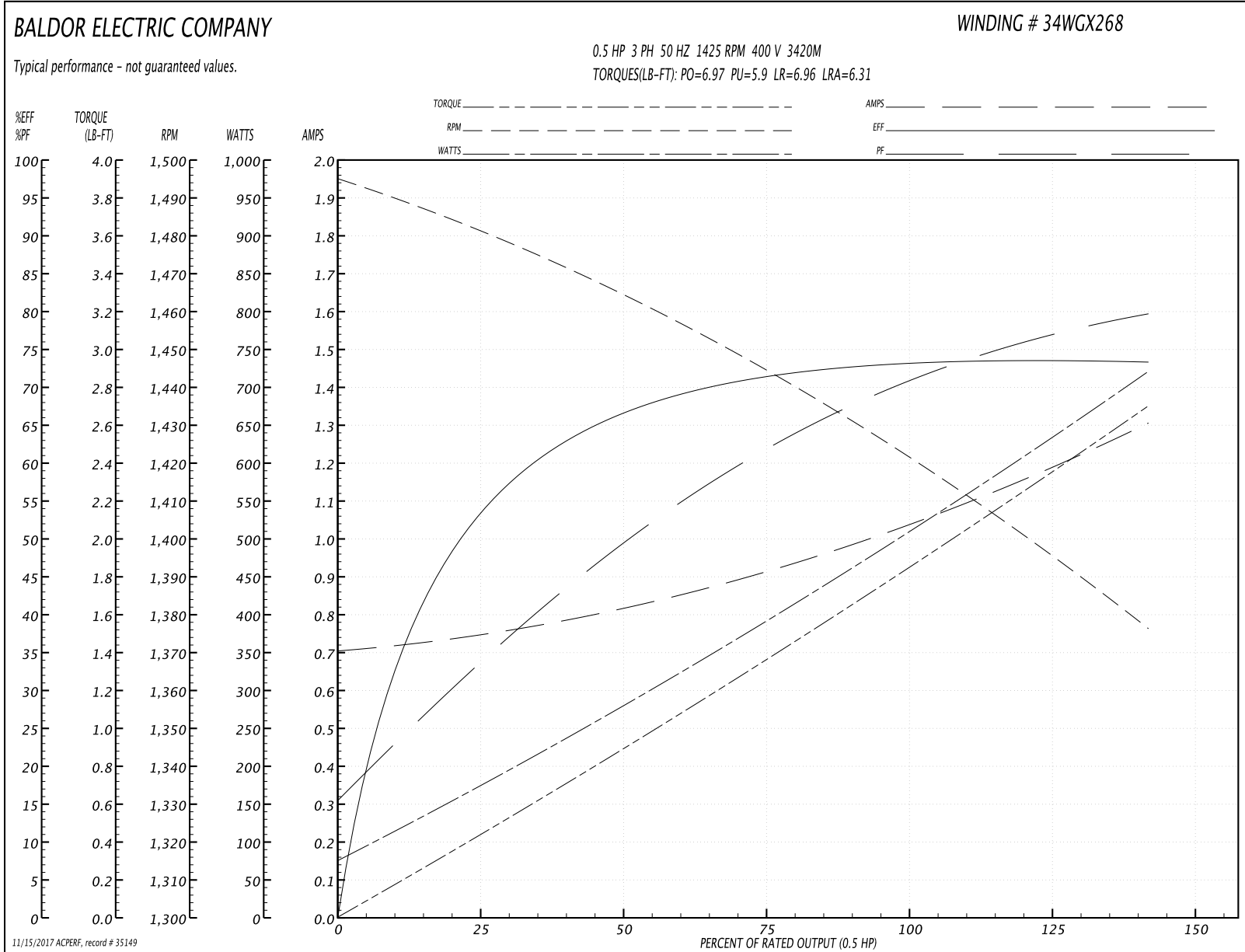
Winding: 34WGX268-R010	Type: 3420M	Enclosure: OPEN
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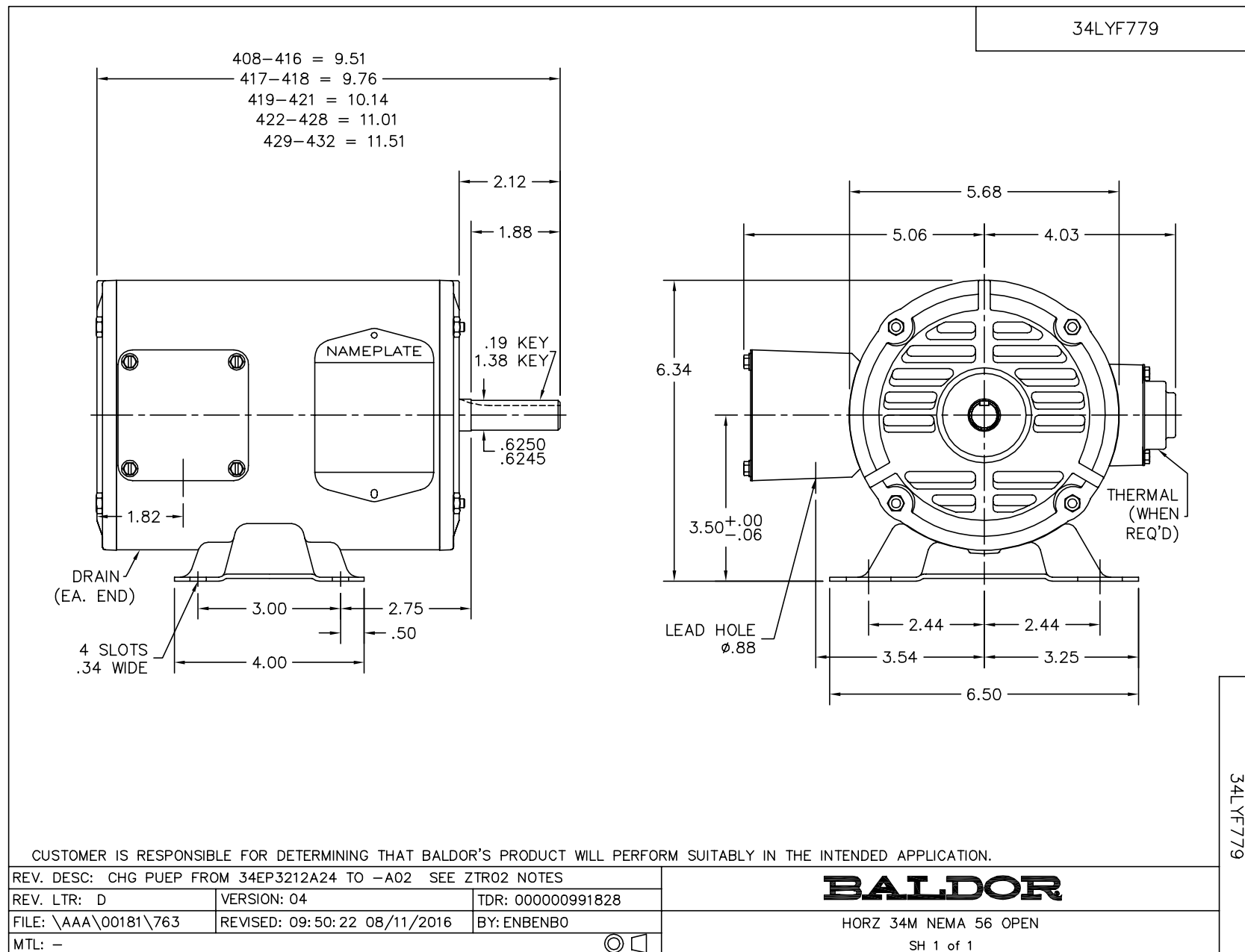
Nameplate Data				400 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.8 LB-FT
Volts	230/400			Start Configuration	direct on line
Full Load Amps	1.7/1			Breakdown Torque	6.97 LB-FT
R.P.M.	1425			Pull-up Torque	5.9 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	6.96 LB-FT
NEMA Design 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. @ 25°C	27.1 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	
S.F. Amps	2/1.2			Temp. Rise @ S.F. Load	
				Locked-rotor Power Factor	64
				Rotor inertia	0.0476 LB-FT ²

Load Characteristics 400 V, 50 Hz, 0.5 HP

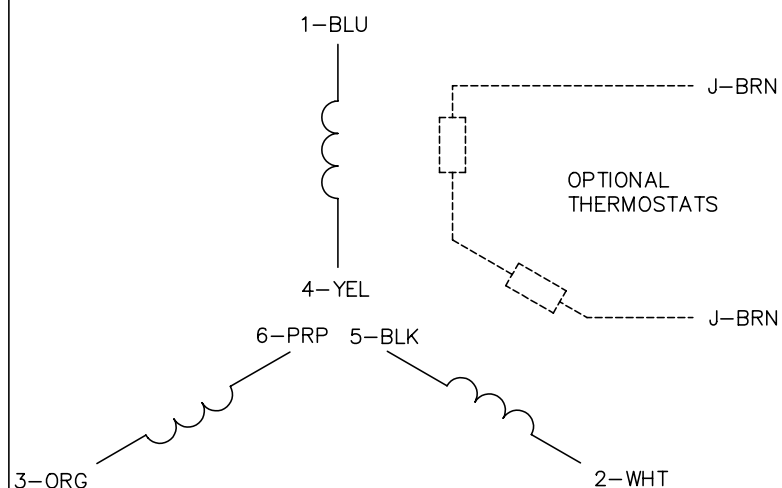
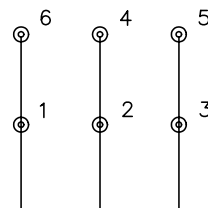
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	50	62	69	77	80	77
Efficiency	52.4	66.3	71.8	73.3	73.9	73.1	73.9
Speed	1479	1465	1448	1418	1406	1374	1406
Line amperes	0.749	0.819	0.901	1.04	1.15	1.31	1.15

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

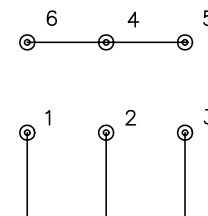




CD0022


 LOW VOLTAGE
(1D)


LINE

 HIGH VOLTAGE
(1Y)


LINE

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

REV. LTR: F

BY: JLP

REVISED: 01/21/99 3:54

TDR: 0171435

CD0022

FILE: AAA00005144

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022