

BALDOR® • RELIANCE

Product Information Packet

NM3538

.5HP,1725RPM,3PH,60HZ,56,3420M,TENV,F1

Part Detail

Revision:	N	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	34WG0097	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	34A076	Layout:	34LYA076	Poles:	04	Created Date:	
Base:	RG	Eff. Date:	10-19-2016	Leads:	9#18		

Specs

Catalog Number:	NM3538	Heater Indicator:	No Heater
Enclosure:	TENV	Insulation Class:	F
Frame:	56	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	K
Output @ Frequency:	.500 HP @ 60 HZ	Lifting Lugs:	No Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	3420M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA	Power Factor:	69
Auxiliary Box:	No Auxiliary Box	Product Family:	General Purpose
Auxiliary Box Lead Termination:	None	Pulley End Bearing Type:	Ball
Base Indicator:	Rigid	Pulley Face Code:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Pulley Shaft Indicator:	Standard
Blower:	None	Rodent Screen:	None
Current @ Voltage:	.900 A @ 460.0 V	Shaft Extension Location:	Pulley End

	1.800 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	2.100 A @ 208.0 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

Nameplate NP1256L

CAT.NO.	NM3538												
SPEC.	34A76-97G1												
HP	.5												
VOLTS	230/460												
AMP	1.8/.9												
RPM	1725												
FRAME	56				HZ		60				PH	3	
SER.F.	1.25			CODE		K		DES		B		CLASS	F
NEMA-NOM-EFF	75.5				PF		69						
RATING	40C AMB-CONT												
CC					USABLE AT 208V							2.1	
DE	6203				ODE		6203						
ENCL	TENV			SN									
	SFA 2/1												

AC Induction Motor Performance Data

Record # 6543 - Typical performance - not guaranteed values

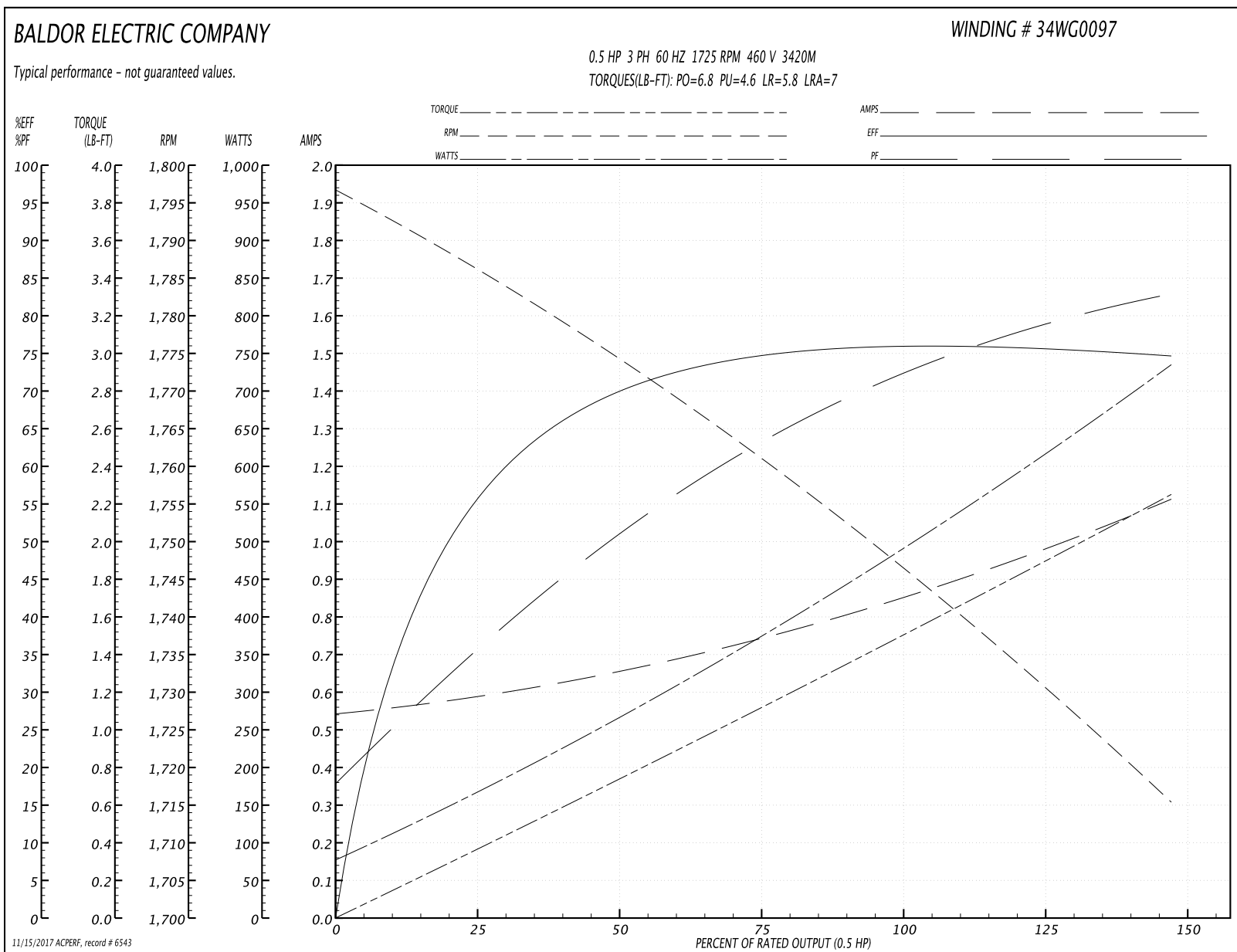
Winding: 34WG0097-R003	Type: 3420M	Enclosure: TENV
-------------------------------	--------------------	------------------------

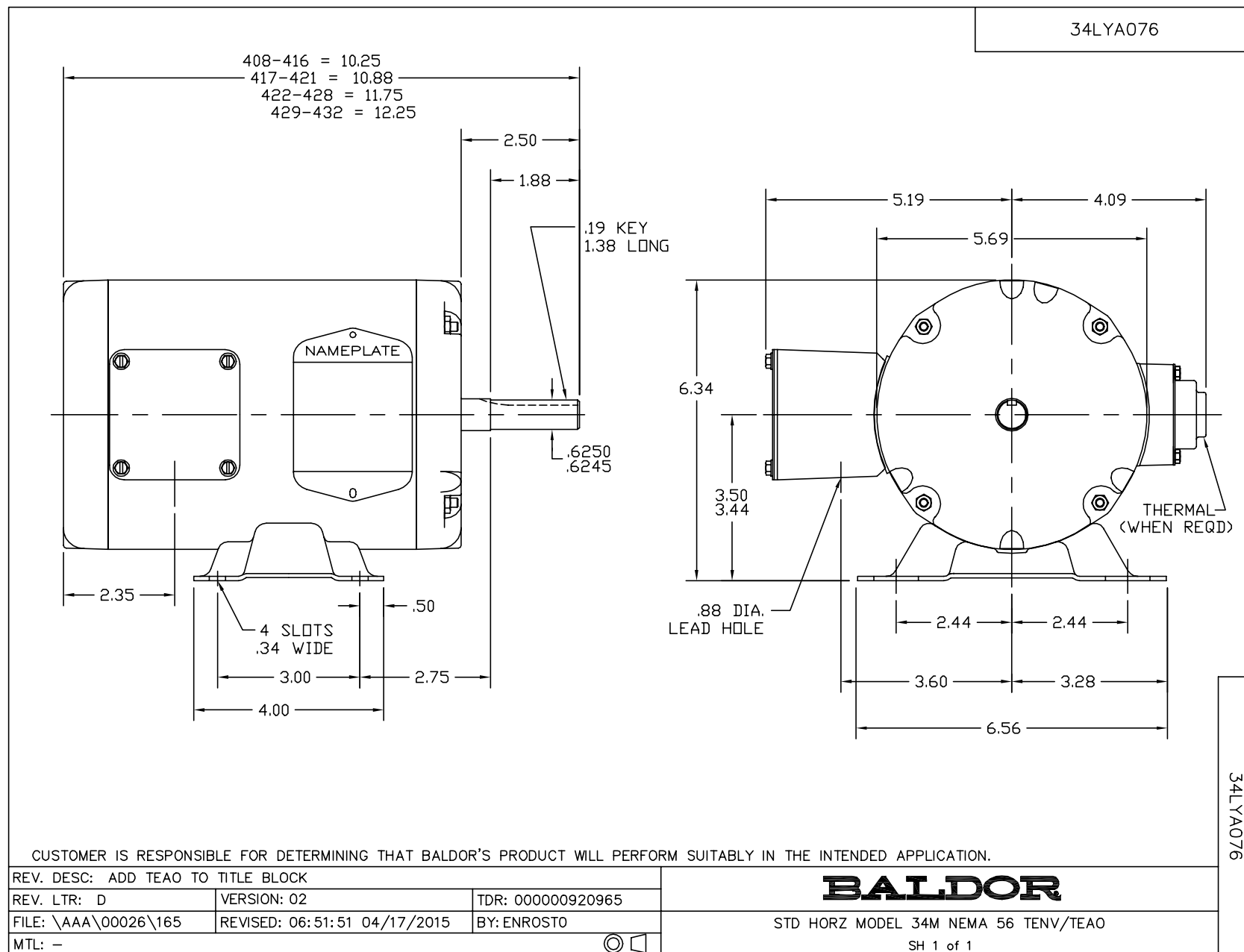
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.5 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	1.8/9			Breakdown Torque	6.8 LB-FT
R.P.M.	1725			Pull-up Torque	4.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.8 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	7 A
Service Factor (S.F.)	1.25			No-load Current	0.54 A
NEMA Nom. Eff.	75.5	Power Factor	69	Line-line Res. @ 25°C	27.56 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	57°C
S.F. Amps	2/1			Temp. Rise @ S.F. Load	80°C

Load Characteristics 460 V, 60 Hz, 0.5 HP

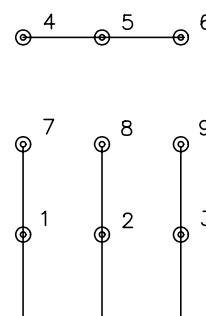
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	53	65	71	75	81	75
Efficiency	55	69	74	78	75.5	74.4	75.5
Speed	1787	1774	1760	1749	1728	1717	1728
Line amperes	0.6	0.65	0.74	0.84	1	1.1	1

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values

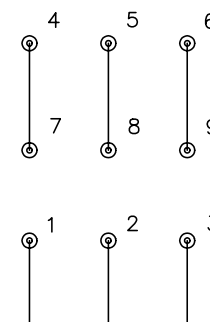




CD0005


 LOW VOLTAGE
(2Y)


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: E BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005