

BALDOR® • RELIANCE

Product Information Packet

1458

5HP,1500/1800RPM,3PH,50/60HZ,3735M,BUFF

Part Detail							
Revision:	W	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	G4WG0036	CD Diagram:	CD0258	Mfg Plant:	
Mech. Spec:	G14-117	Layout:	G4LY0117	Poles:	04	Created Date:	
Base:	RG	Eff. Date:	12-01-2016	Leads:	9#14 11"FROM ENDTURN Y		

Specs			
Nameplate Output:	5		
Product Style:	GRINDER		

Nameplate NP3411L			
CAT.NO.	1458		
HP	5	VOLTS	230
PHASE	3	AMPS	13.6
HZ	50//60	RPM	1500//1800
SER.NO			
SPEC.	G14-117C-0036G1		
BLANK			

AC Induction Motor Performance Data
Record # 23658 - Preliminary Data Sheet

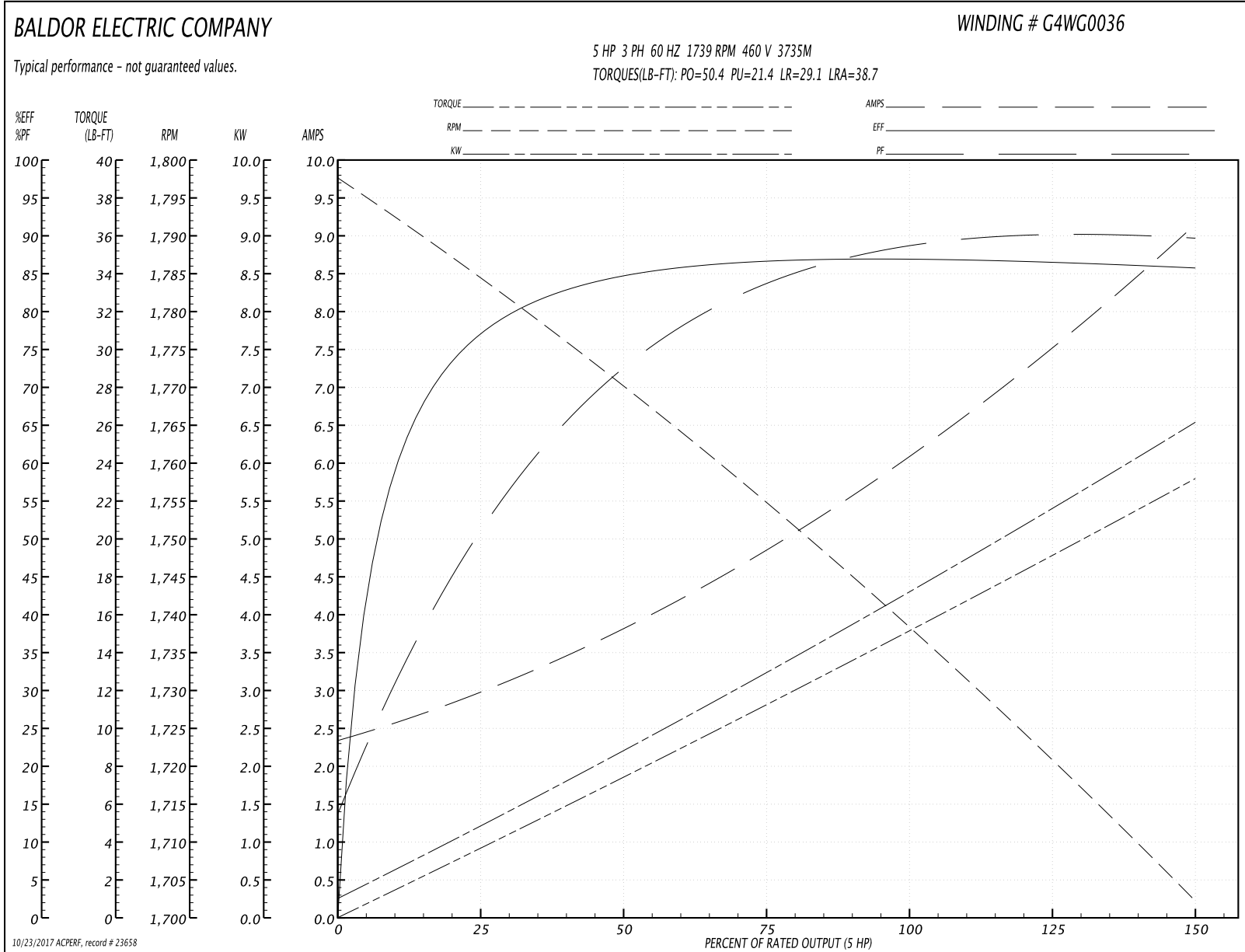
Winding: G4WG0036-R001	Type: 3735M	Enclosure: TENV
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5			Full Load Torque	15.1 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	15-13.6/6.8//15/6.8			Breakdown Torque	50.4 LB-FT
R.P.M.	1500//1800			Pull-up Torque	21.4 LB-FT
Hz	50//60	Phase	3	Locked-rotor Torque	29.1 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	38.7 A
Service Factor (S.F.)	1			No-load Current	2.43 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	2.24 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	
				Locked-rotor Power Factor	40
				Rotor inertia	0.74 LB-FT ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	53	74	83	87	90	90
Efficiency	76.9	84.7	86.7	87.1	86.5	85.5
Speed	1784	1770	1755	1739	1721	1702
Line amperes	2.87	3.74	4.87	6.15	7.56	9.09

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 23659 - Preliminary Data Sheet

Winding: G4WG0036-R001	Type: 3735M	Enclosure: TENV
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Nameplate Data				460 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	5			Full Load Torque	18.1 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	15-13.6/6.8//15/6.8			Breakdown Torque	71.6 LB-FT
R.P.M.	1500//1800			Pull-up Torque	35.3 LB-FT
Hz	50//60	Phase	3	Locked-rotor Torque	47.8 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	46 A
Service Factor (S.F.)	1			No-load Current	3.33 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	2.24 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	
				Locked-rotor Power Factor	47
				Rotor inertia	0.74 LB-FT ²

Load Characteristics 460 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	43	64	76	83	86	88
Efficiency	73.7	82.7	85.4	86	85.7	84.9
Speed	1487	1475	1462	1449	1434	1419
Line amperes	3.67	4.4	5.4	6.58	7.91	9.36

Performance Graph at 460V, 50Hz, 5.0HP Typical performance - Not guaranteed values

