



Customer information packet 1458

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

Specifications

Frequency	50.00 Hz
	60.00 Hz
Nameplate Output	5
Number of Poles	4
Phase	3
Product Style	GRINDER
Speed	1500 rpm
	1800 rpm
Voltage	208 V
	230 V
	460 V

Part detail

Revision	Y
Type	AC
Mech. spec.	G14-117
Base	
Status	PRD/A
Elec. spec.	G4WG0036
Layout	G4LY0117
Eff. date	02-11-2022
CD Diagram	CD0258
Poles	04
Leads	9#14 11"FROM ENDTURN Y
Proprietary	False
Created date	01-01-0001

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			

Accessories

Part number	Description	Multiplier
GA20	PEDESTAL INDUSTRIAL, CAST IRON 8"-14"	A8

AC Induction Motor Performance Data

Record # 23658

Preliminary Data Sheet

Winding: G4WG0036-R001			Type: 3735M		Enclosure: TENV			
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-FT2

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

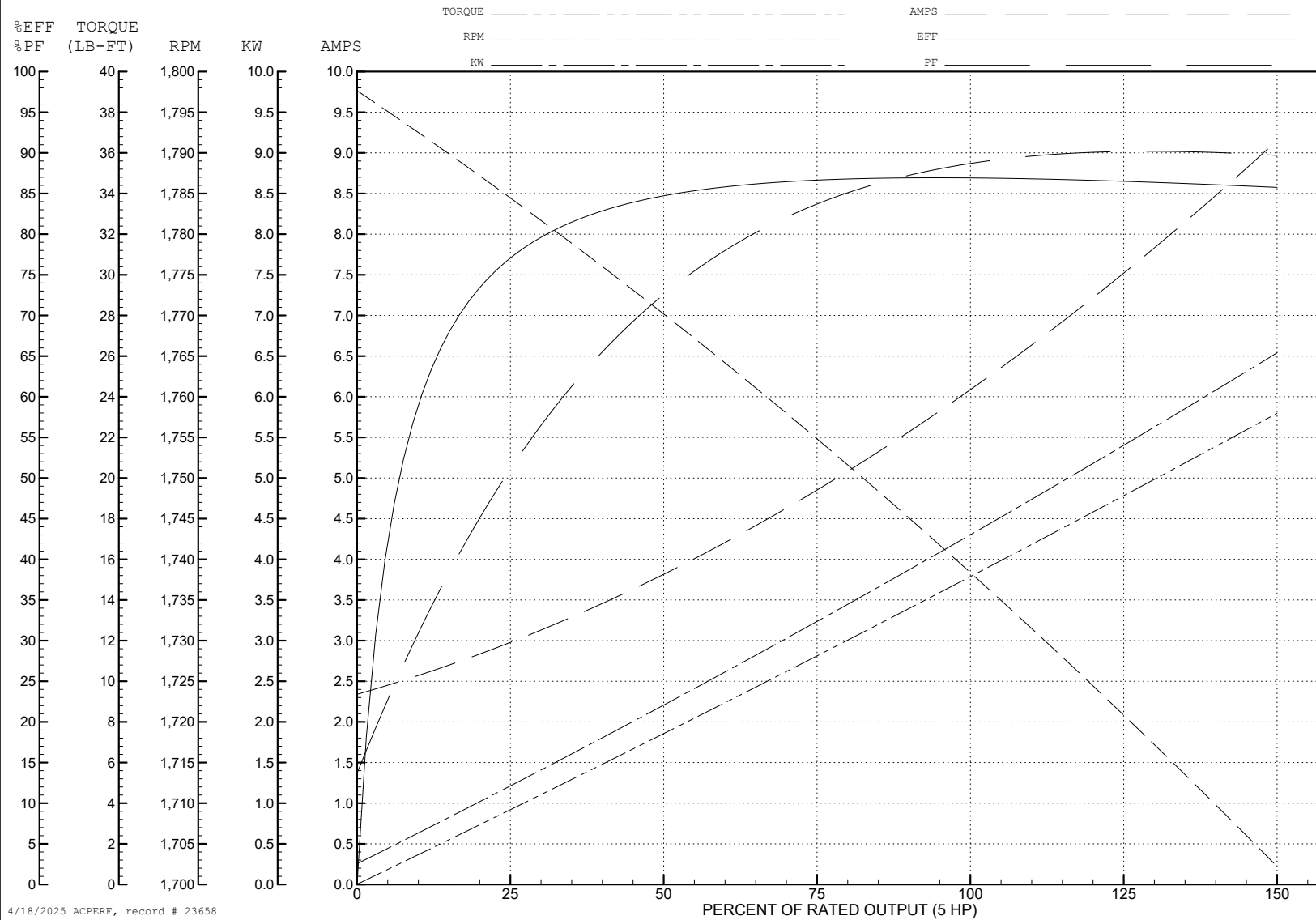
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WINDING # G4WG0036

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1739 RPM 460 V 3735M

TORQUES (LB-FT): PO=50.4 PU=21.4 LR=29.1 LRA=38.7



AC Induction Motor Performance Data

Record # 23659

Preliminary Data Sheet

Winding: G4WG0036-R001		Type: 3735M	Enclosure: TENV			
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-FT2

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

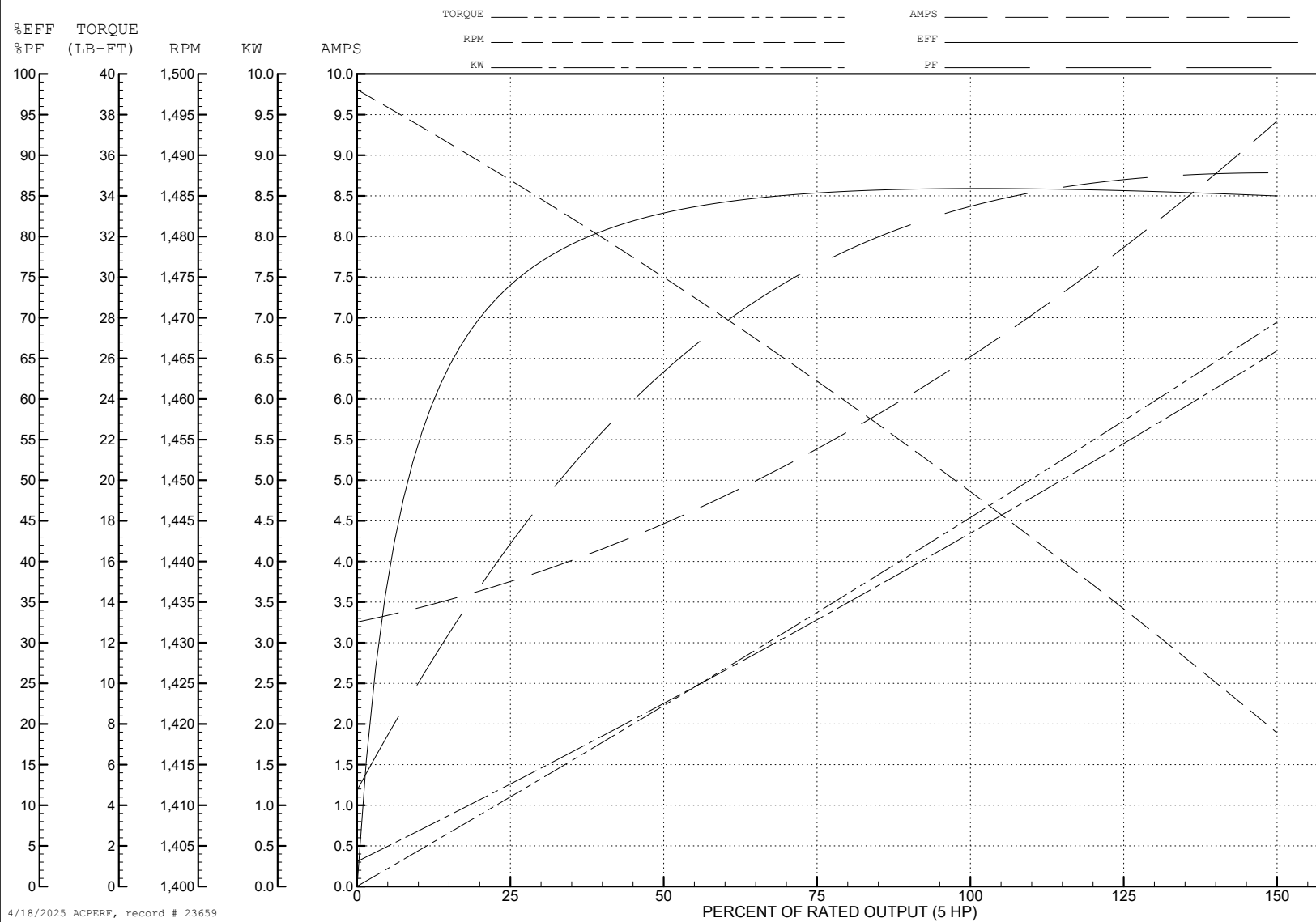
ABB Motors and Mechanical Inc.

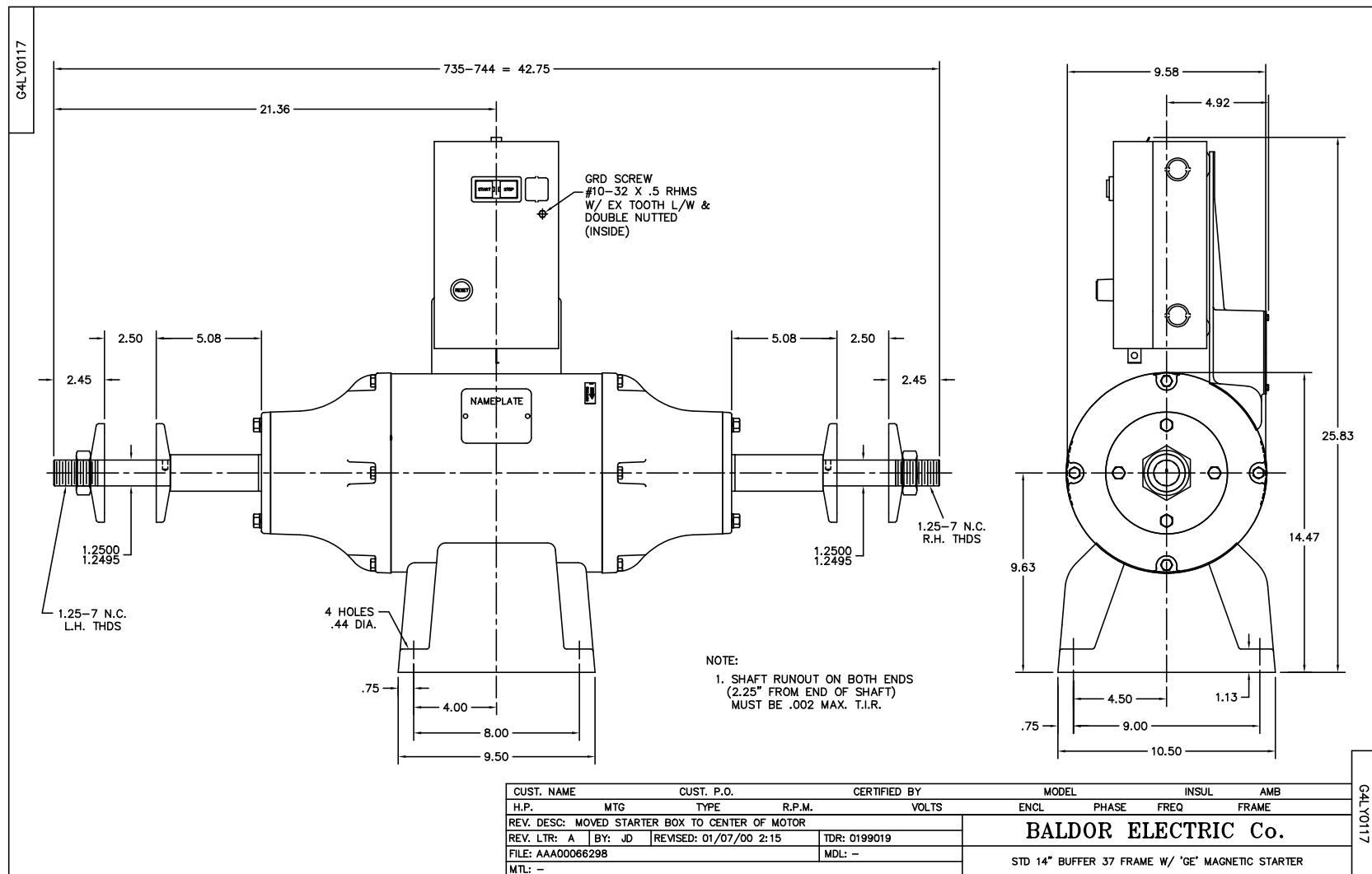
WINDING # G4WG0036

Typical performance - not guaranteed values.

5 HP 3 PH 50 HZ 1449 RPM 460 V 3735M

TORQUES (LB-FT): PO=71.6 PU=35.3 LR=47.8 LRA=46





CD0258

