



Customer information packet

1409W

40M 4P GRINDER

Specifications

Frequency	50.00 Hz
	60.00 Hz
Nameplate Output	7.5
Number of Poles	4
Phase	3
Shaft Diameter	1.250 IN
Speed	1500 rpm
	1800 rpm
Voltage	575 V

Part detail

Revision	C
Type	AC
Mech. spec.	G14-116
Base	
Status	PRD/A
Elec. spec.	G4WG0120
Layout	G4LY0116
Eff. date	03-28-2025
CD Diagram	CD0252
Poles	04
Leads	3#14
Proprietary	False
Created date	11-20-2020

Nameplate

NP3412L			
CAT.NO.	1409W		
HP	7.5	VOLTS	575
PHASE	3	AMPS	8
HZ	50//60	RPM	1500//1800
SER.NO			
SPEC.	G14-116A-0120		
BLANK			

Accessories

Part number	Description	Multiplier
GA20	PEDESTAL INDUSTRIAL, CAST IRON 8"-14"	A8
GA9	PAIR LIGHTED EYESHIELDS	A8
GA9-1	SINGLE LIGHTED EYESHIELD	A8
GA9S	PAIR EYESHIELDS W/ ON-OFF SWITCH	A8
GA11	PAIR EYESHIELDS	A8
B147	14" 30 GRIT GRINDING WHEEL	A8
B148	14" 46 GRIT GRINDING WHEEL	A8
DC14-3	DUST CONTROL FOR 14 IN GRINDER	A8

AC Induction Motor Performance Data

Record # 85539

Preliminary Data Sheet

Winding: G4WG0120-R001		Type: G1440M	Enclosure: TENV		
Nameplate Data		575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)	7.5	Full Load Torque	22.4 LB-FT		
Volts	575	Start Configuration	direct on line		
Full Load Amps	8	Breakdown Torque	50.6 LB-FT		
R.P.M.	1500//1800	Pull-up Torque	20 LB-FT		
Hz	50//60	Phase	3	Locked-rotor Torque	25.5 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	31.5 A
Service Factor (S.F.)	1	No-load Current		2.28 A	
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	3.79 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load		
		Locked-rotor Power Factor			40.1
		Rotor inertia			0.984 lb-ft²

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	56	78	85	88	89	88
Efficiency	90.1	92.2	91.8	90.8	89.3	87.4
Speed	1791	1783	1773	1763	1751	1737
Line amperes	2.8	3.94	5.39	7.03	8.87	11

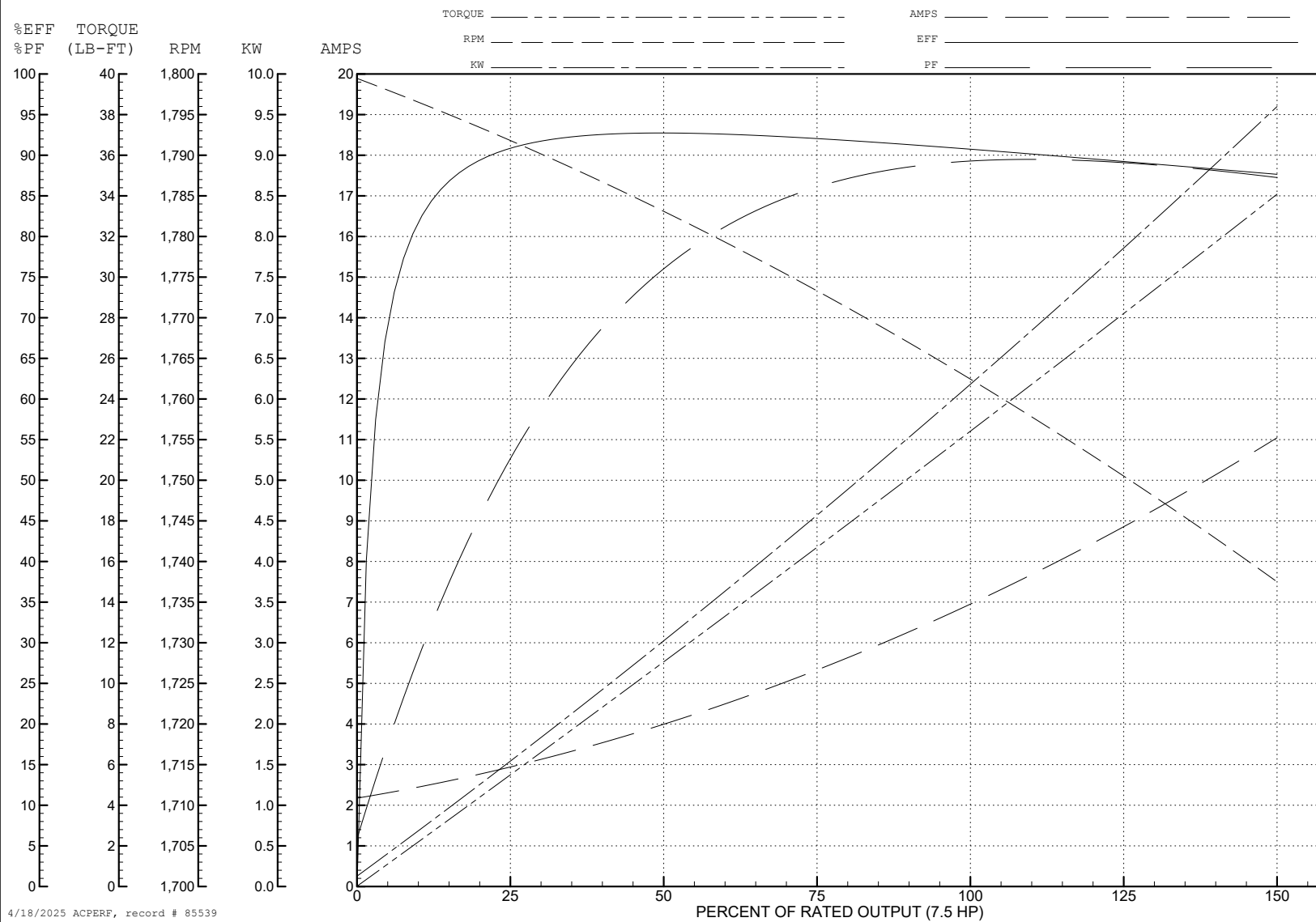
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WINDING # G4WG0120

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1763 RPM 575 V G1440M

TORQUES (LB-FT): PO=50.6 PU=20 LR=25.5 LRA=31.5



AC Induction Motor Performance Data

Record # 85540

Preliminary Data Sheet

Winding: G4WG0120-R001		Type: G1440M	Enclosure: TENV			
Nameplate Data		575 V, 50 Hz: Single Voltage Motor				
Rated Output (HP)	7.5	Full Load Torque	26.8 LB-FT			
Volts	575	Start Configuration	direct on line			
Full Load Amps	8	Breakdown Torque	71.2 LB-FT			
R.P.M.	1500//1800	Pull-up Torque	20 LB-FT			
Hz	50//60	Phase	3	Locked-rotor Torque	39.8 LB-FT	
NEMA Design Code	B	KVA Code	H	Starting Current	37.7 A	
Service Factor (S.F.)	1	No-load Current				3.14 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	3.79 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load			
			Locked-rotor Power Factor			45.7
			Rotor inertia			0.984 lb-ft²

Load Characteristics 575 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	45	69	80	85	87	88
Efficiency	88	91	91.1	90.3	89	87.3
Speed	1493	1485	1478	1469	1460	1449
Line amperes	3.52	4.5	5.8	7.34	9.07	11

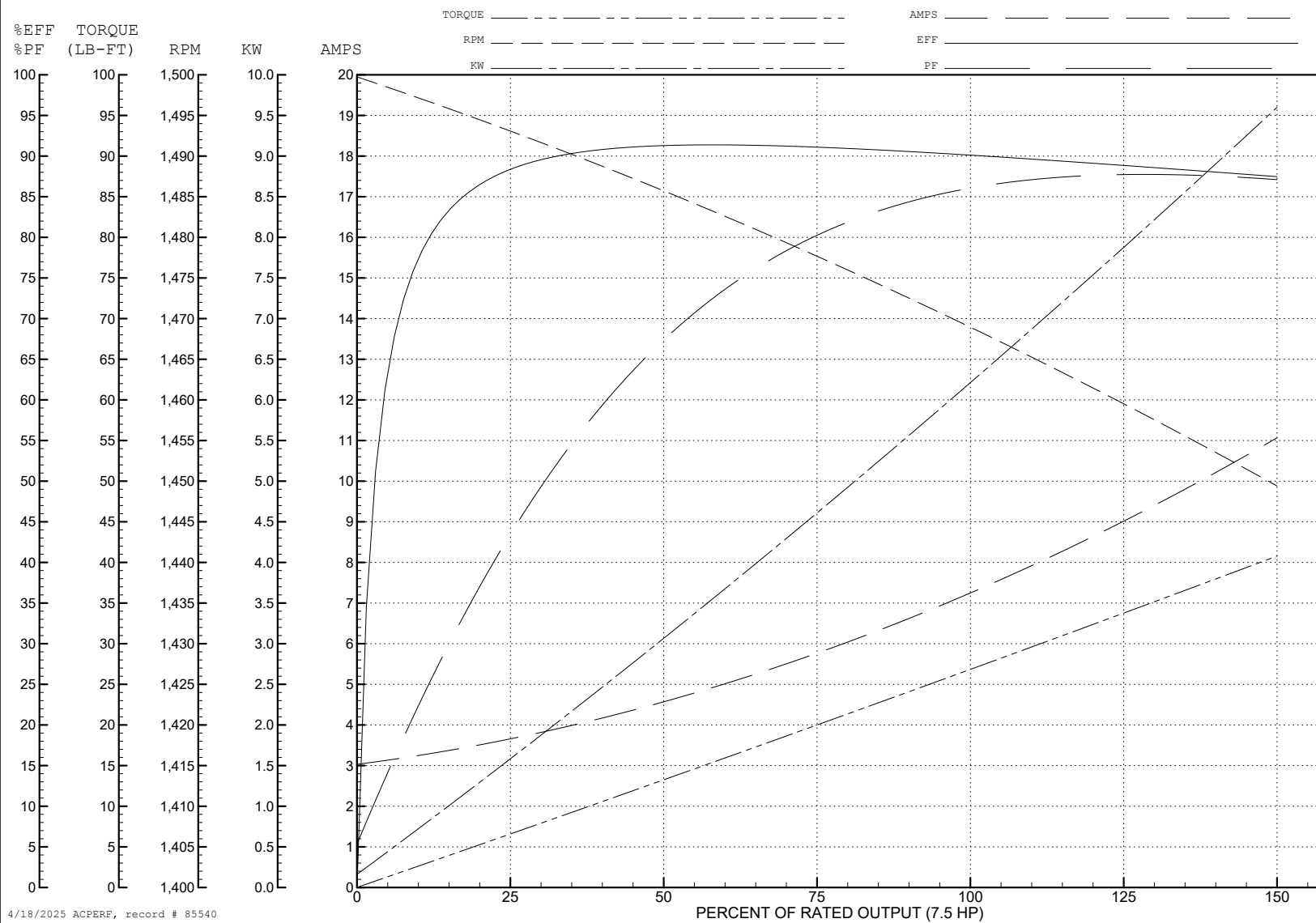
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WINDING # G4WG0120

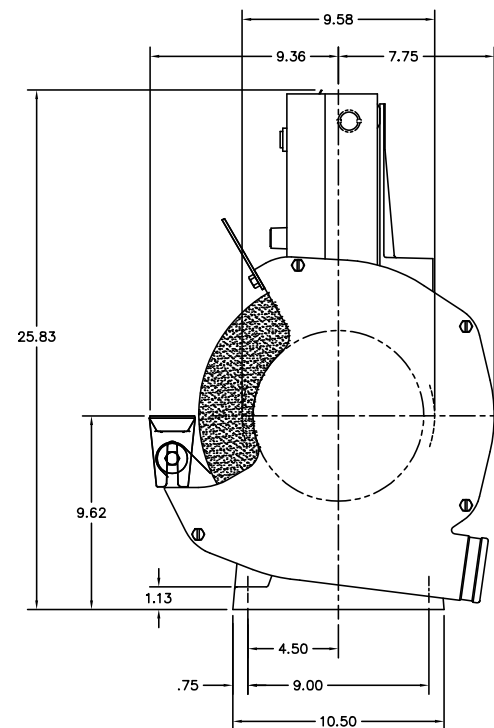
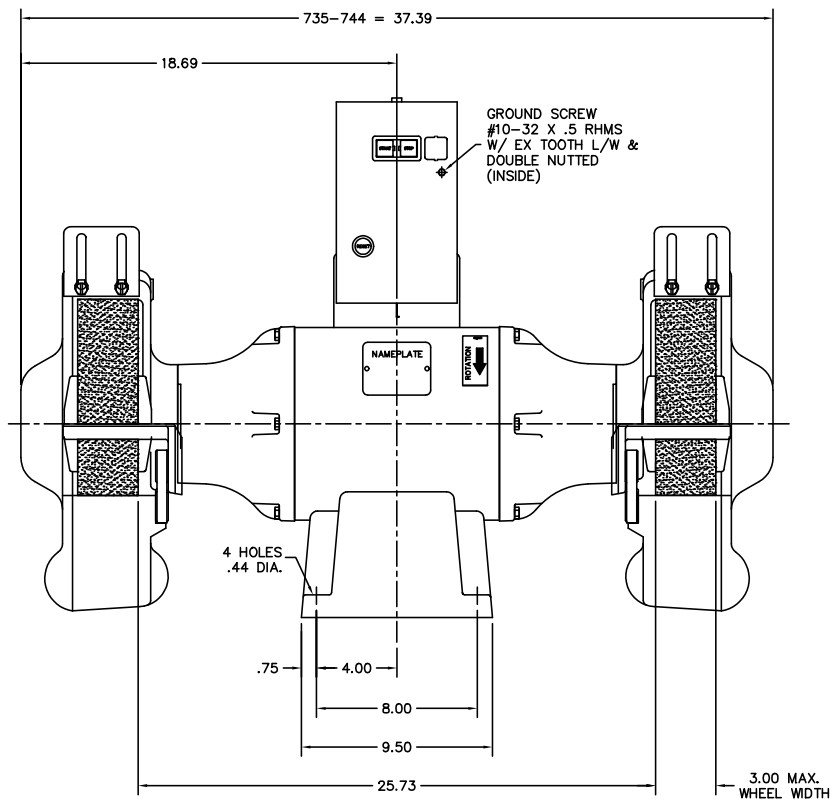
Typical performance - not guaranteed values.

7.5 HP 3 PH 50 HZ 1469 RPM 575 V G1440M

TORQUES (LB-FT): PO=71.2 PU=20 LR=39.8 LRA=37.7



G4LY0116



CUST. NAME		CUST. P.O.		CERTIFIED BY		MODEL		INSUL	AMB
H.P.	MTG	TYPE	R.P.M.	VOLTS		ENCL	PHASE	FREQ	FRAME
REV. DESC: MOVED STARTER BOX TO CENTER OF MOTOR						BALDOR ELECTRIC Co.			
REV. LTR: A	BY: JD	REVISED: 01/07/00 1:55		TDR: 0199019					
FILE: AAA00066297				MDL: -					
MTL: -						STD 14" GRINDER 37 W/REAR EXHAUST & 'GE' MAGNETIC STARTER			

G4LY0116

