

ABB BALDOR RELIANCE III

Customer information packet 334B

24M 4P BUFFER

Specifications

Enclosure	TENV
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz 50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Nameplate Output	.75
Number of Poles	4 4
Output @ Frequency	.750 HP @ 60 HZ .750 HP @ 50 HZ
Phase	3 3
Shaft Diameter	0.750 IN 0.750 IN
Speed	1500 rpm 1800 rpm 1500 rpm 1800 rpm
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage	208 V 230 V 460 V
Voltage @ Frequency	208.0 V @ 50 HZ 208.0 V @ 60 HZ 460.0 V @ 60 HZ 460.0 V @ 50 HZ 230.0 V @ 60 HZ 230.0 V @ 50 HZ
Agency Approvals	CSA
Ambient Temperature	40 °C
Base Indicator	Rigid

Part Detail

Revision	A
Type	AC
Mech. spec.	G8-170
Base	
Status	PRD/A
Elec. spec.	G8WG0377
Layout	G8LY0170
Eff. date	07-17-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-23-2023

Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	3.000 A @ 230.0 V
	3.000 A @ 208.0 V
	1.500 A @ 460.0 V
Design Code	-
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Insulation Class	B
KVA Code	-
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Standards	Other
Motor Type	3524M
Mounting Arrangement	F1
Overall Length	28.38 IN
Product Family	Buffer
Service Factor	1.00
Shaft Rotation	Phase Seq-Opp Std Rot (CWOE)
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3411L			
CAT.NO.	334B		
HP	.75	VOLTS	208-230/460
PHASE	3	AMPS	3/1.5
HZ	50//60	RPM	1500//1800
SER.NO			
SPEC.	G8-170G0377		
BLANK			

Accessories

Part number	Description	Multiplier
GA16	PEDESTAL INDUSTRIAL, CAST IRON 6" - 10"	A8
GA14	PEDESTAL FABRICATED STEEL W/SHELVES	A8
GA20	PEDESTAL INDUSTRIAL, CAST IRON 8"-14"	A8
GA20E	PEDESTAL LIGHT INDUSTRIAL,STEEL	A8
A82	8" COTTON BUFFING WHEEL 3/4 " BORE	A8

AC Induction Motor Performance Data

Record # 91058

Preliminary Data Sheet

Winding: G8WG0377-R001			Type: G824M		Enclosure: TENV				
Nameplate Data			460 V, 50 Hz: High Voltage Connection						
Rated Output (HP)			.75		Full Load Torque		2.69 LB-FT		
Volts			208-230/460		Start Configuration		direct on line		
Full Load Amps			2.75-2.9/1.45//2.48-2.4/1.2		Breakdown Torque		15.71 LB-FT		
R.P.M.			1500//1800		Pull-up Torque		12.63 LB-FT		
Hz		50//60	Phase		3	Locked-rotor Torque		14.64 LB-FT	
NEMA Design Code		-		KVA Code		-	Starting Current		13.78 A
Service Factor (S.F.)			1		No-load Current			1.3 A	
NEMA Nom. Eff.		0	Power Factor		0	Line-line Res. @ 25°C			24 Ω
Rating - Duty			40C AMB-CONT		Temp. Rise @ Rated Load			77°C	
					Locked-rotor Power Factor			83.3954	
					Rotor inertia			0.173 lb-ft²	

Load Characteristics 460 V, 50 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	24	36	47	58	66	72
Efficiency	57.6	71.5	77.2	79	80	79.8
Speed	1489	1480	1470	1460	1449	1438
Line amperes	1.31	1.35	1.43	1.54	1.67	1.83

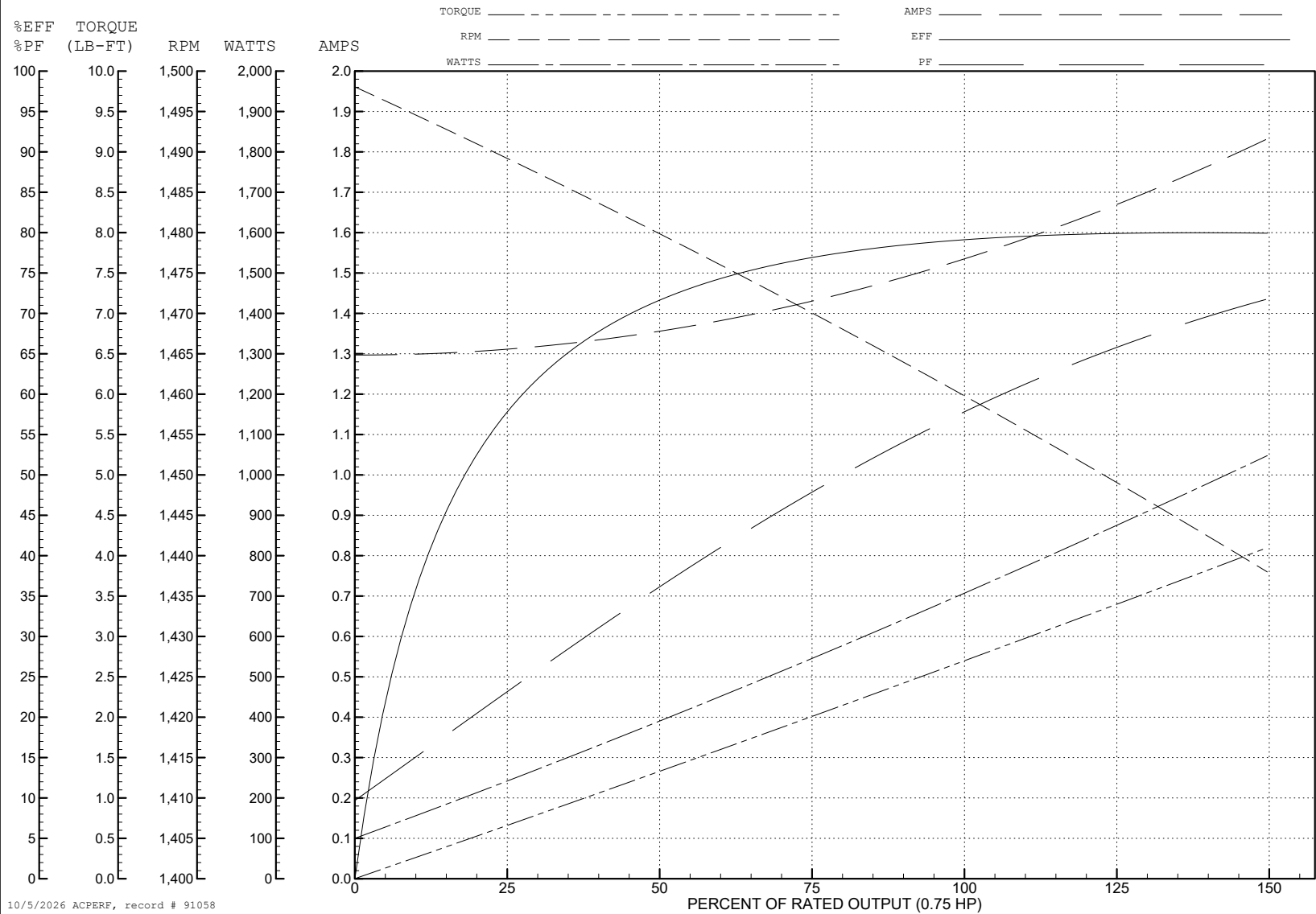
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WINDING # G8WG0377

0.75 HP 3 PH 50 HZ 1460 RPM 460 V G824M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=15.71 PU=12.63 LR=14.64 LRA=13.78



AC Induction Motor Performance Data

Record # 91059

Preliminary Data Sheet

Winding: G8WG0377-R001			Type: G824M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		2.25 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		2.75-2.9/1.45//2.48-2.4/1.2	Breakdown Torque		12.14 LB-FT		
R.P.M.		1500//1800	Pull-up Torque		9.18 LB-FT		
Hz		50//60	Phase		3	Locked-rotor Torque	10.64 LB-FT
NEMA Design Code		-	KVA Code		-	Starting Current	12.71 A
Service Factor (S.F.)		1	No-load Current		0.946 A		
NEMA Nom. Eff.		0	Power Factor		0	Line-line Res. @ 25°C	24 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		55°C		
			Locked-rotor Power Factor		77.6342		
			Rotor inertia		0.173 lb-ft²		

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	28	44	57	67	74	79
Efficiency	65.5	77	81.4	82.7	82.7	82
Speed	1787	1776	1765	1752	1739	1725
Line amperes	0.965	1.03	1.13	1.27	1.43	1.62

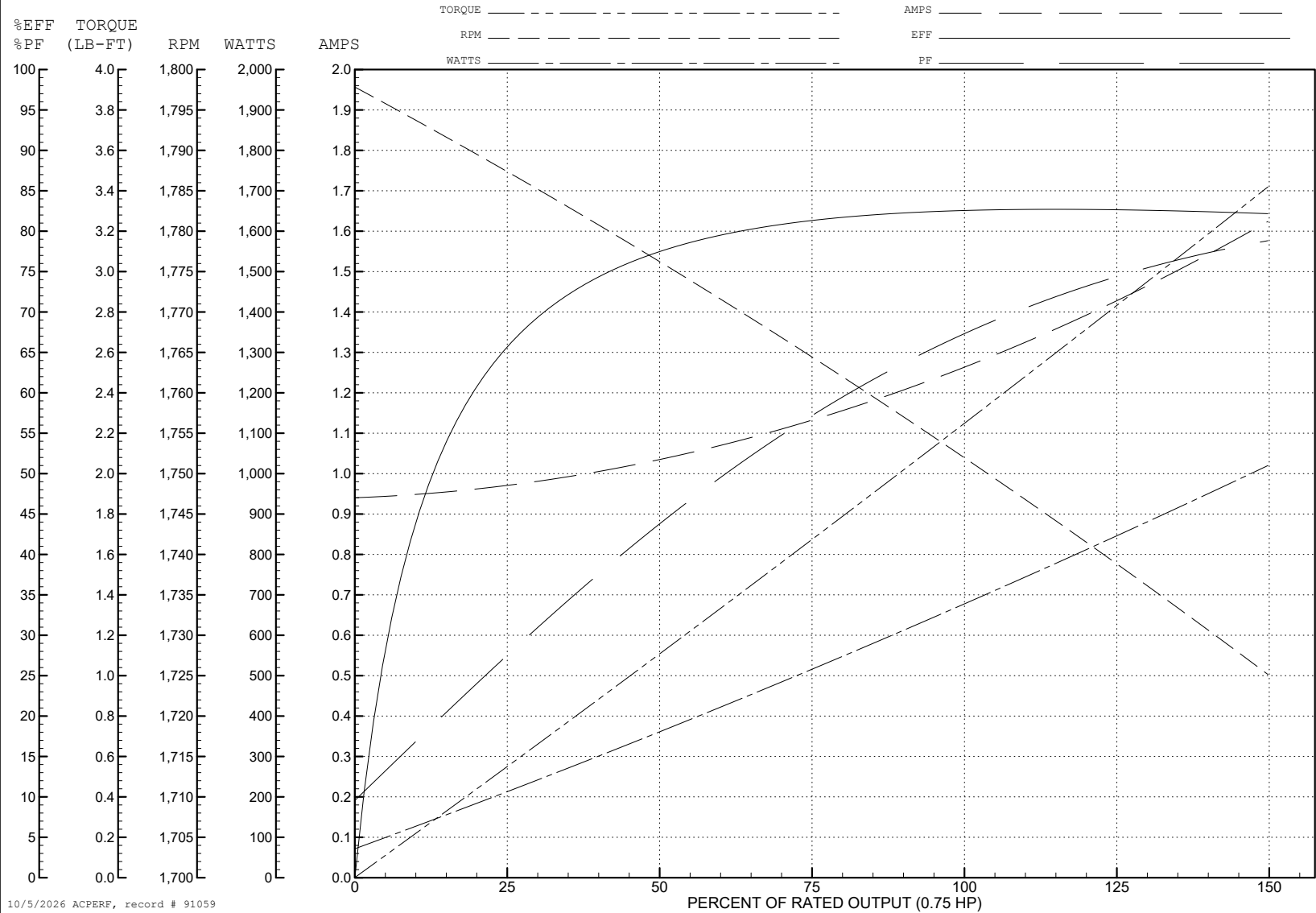
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WINDING # G8WG0377

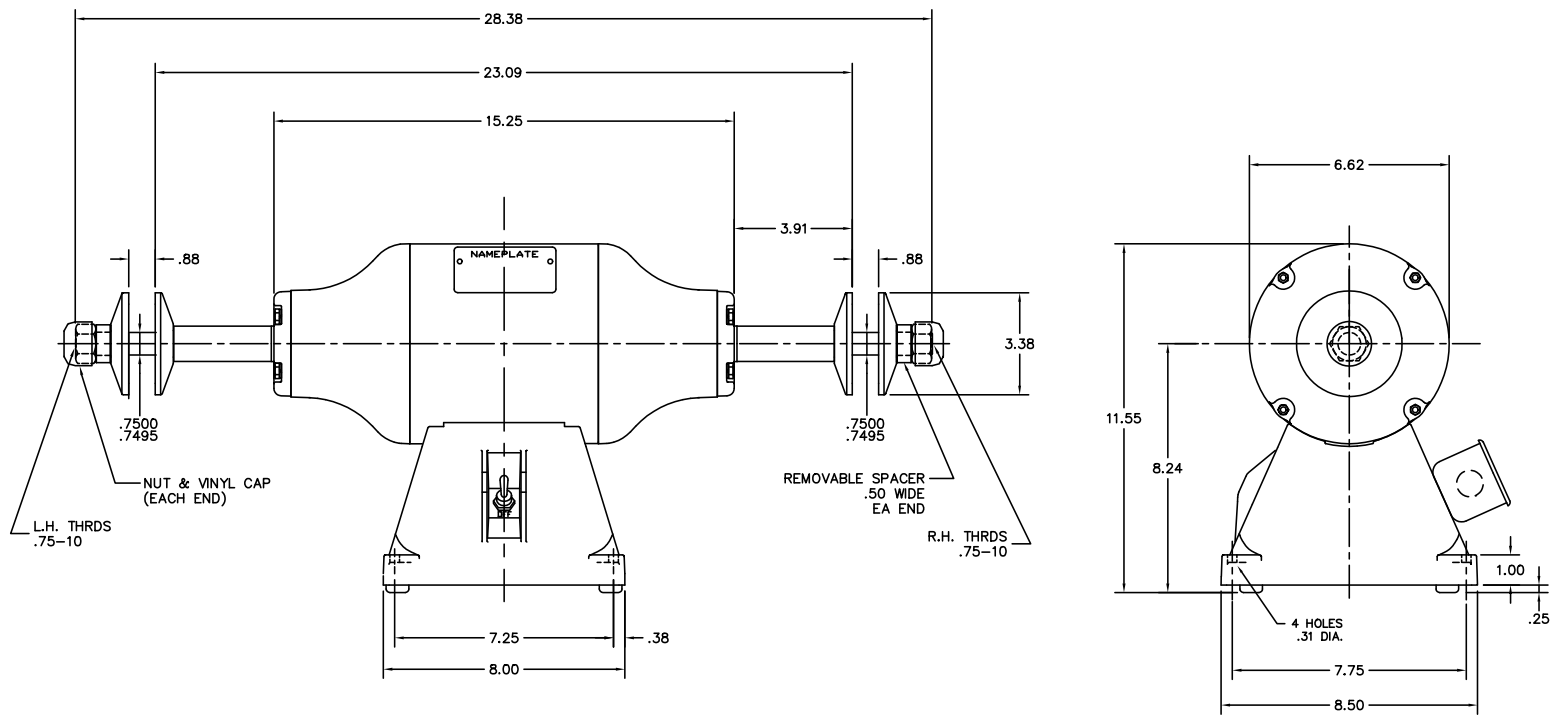
Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1752 RPM 460 V G824M

TORQUES (LB-FT): PO=12.14 PU=9.18 LR=10.64 LRA=12.71



G8-0170



MATL: -		
REV: F	UPDATE AND LOAD TO CAD (SEE EC09)	
SCALE: .3	BY: JED	REVISED: 06/11/98
FILE: AAA00051089	TDR: 0140467	

BALDOR ELECTRIC Co.

8" BUFFER 524M

G8-0170

