

ABB BALDOR RELIANCE III

Customer information packet

1411W

40M 4P GRINDER

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	7.5
Number of Poles	4 4
Output @ Frequency	7.500 HP @ 60 HZ 7.500 HP @ 50 HZ
Phase	3 3
Product Style	GRINDER
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	230.0 V @ 60 HZ 460.0 V @ 50 HZ 460.0 V @ 60 HZ 208.0 V @ 60 HZ 208.0 V @ 50 HZ 230.0 V @ 50 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Base Indicator	Rigid

Part Detail

Revision	R
Type	AC
Mech. spec.	G14-116
Base	
Status	PRD/A
Elec. spec.	G4WG0040
Layout	G4LY0116
Eff. date	06-05-2026
CD Diagram	CD0258
Poles	04
Leads	9#14
Proprietary	False
Created date	07-12-2007

Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	9.400 A @ 230.0 V
	18.800 A @ 208.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Insulation Class	B
KVA Code	G
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Standards	Other
Motor Type	3740M
Mounting Arrangement	F1
Overall Length	37.39 IN
Product Family	Grinder
Service Factor	1.00
Shaft Extension Location	Double Shaft
Shaft Rotation	Phase Seq-Opp Std Rot (CWODE)
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

NP3361L			
CAT.NO.	1411W		
HP	7.5	VOLTS	208-230/460
PHASE	3	AMPS	18.8/9.4
HZ	50//60	RPM	1500//1800
SER.NO			
SPEC.	G14-116C-0040		
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 # 94757

Typical performance - not guaranteed values

Winding: G4WG0040-R001		Type: G1440M	Enclosure: TENV
Nameplate Data		460 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	7.5	Full Load Torque	27.03 LB-FT
Volts	208-230/460	Start Configuration	direct on line
Full Load Amps	18.8/9.4	Breakdown Torque	95.9 LB-FT
R.P.M.	1500//1800	Pull-up Torque	36.5 LB-FT
Hz	50//60 Phase	Locked-rotor Torque	55.8 LB-FT
NEMA Design Code	- KVA Code	Starting Current	67.4 A
Service Factor (S.F.)	1	No-load Current	3.26 A
NEMA Nom. Eff.	0 Power Factor	Line-line Res. @ 25°C	1.94 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	36°C
		Locked-rotor Power Factor	36.9
		Rotor inertia	0.984 lb-ft ²

Load Characteristics 460 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	53	74	82	85	87	87
Efficiency	83.8	89.2	89.9	89.5	87.9	85.4
Speed	1490	1480	1470	1459	1447	1431
Line amperes	3.86	5.23	7.1	9.2	11.5	14.12

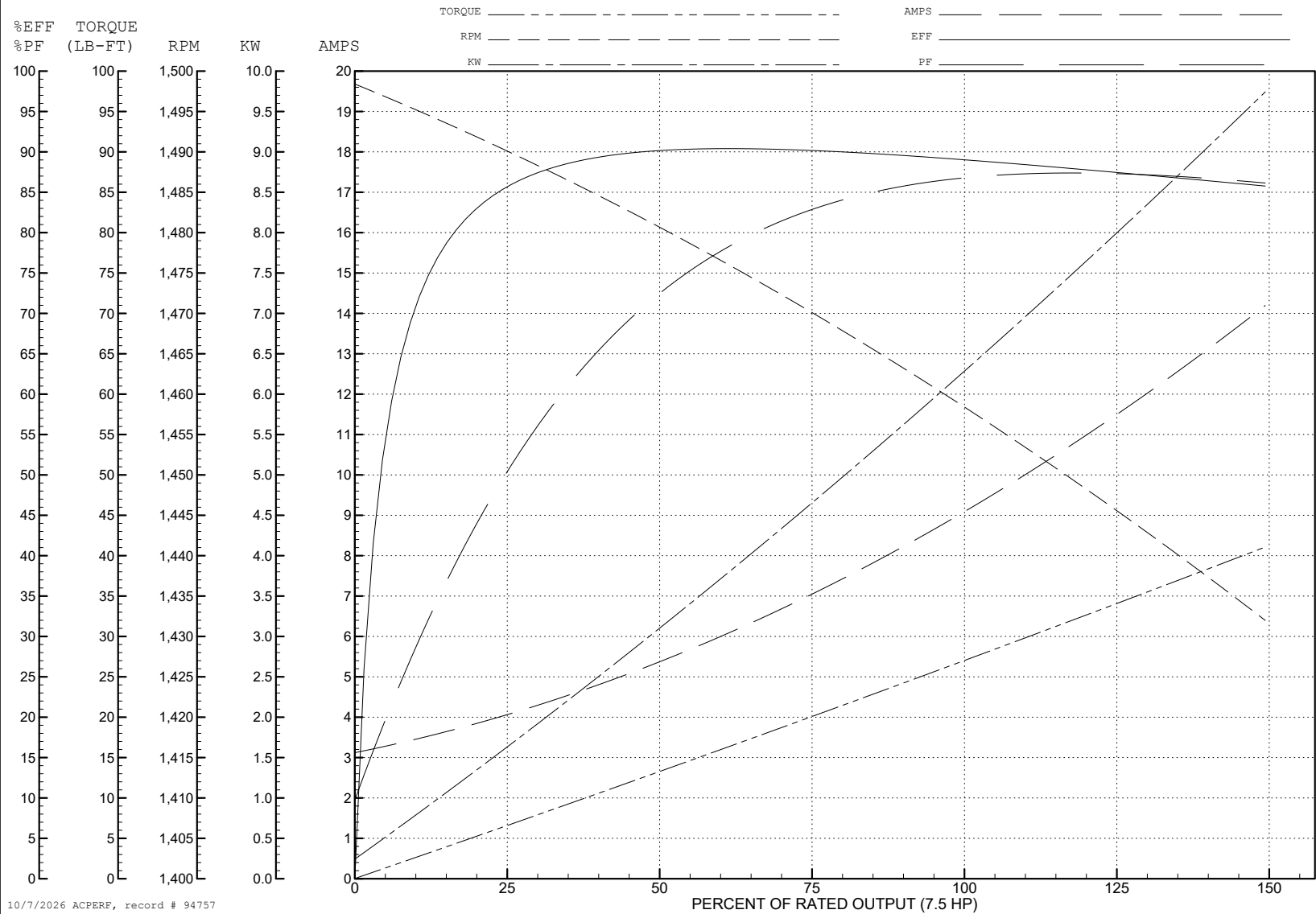
ABB Motors and Mechanical Inc.

WINDING # G4WG0040

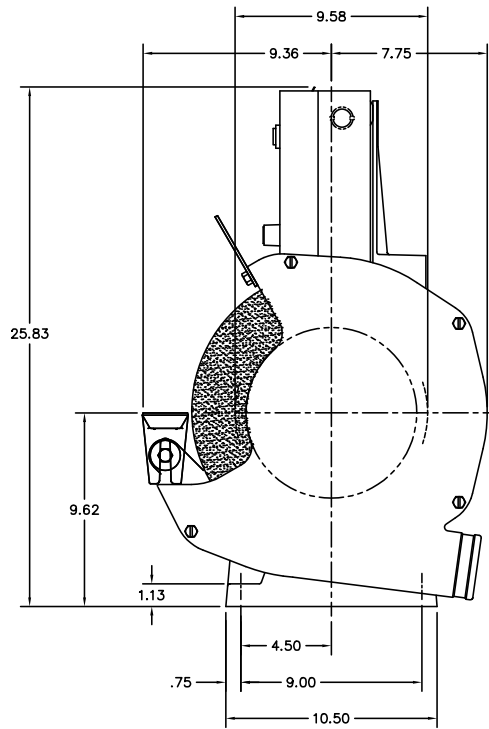
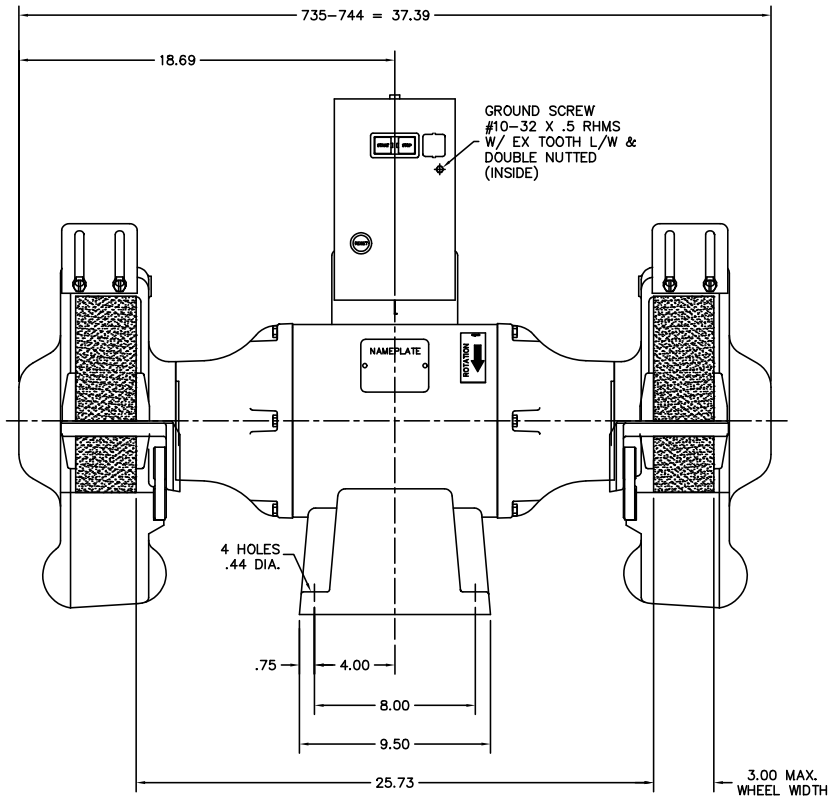
Typical performance - not guaranteed values.

7.5 HP 3 PH 50 HZ 1459 RPM 460 V G1440M

TORQUES (LB-FT): PO=95.9 PU=36.5 LR=55.8 LRA=67.4



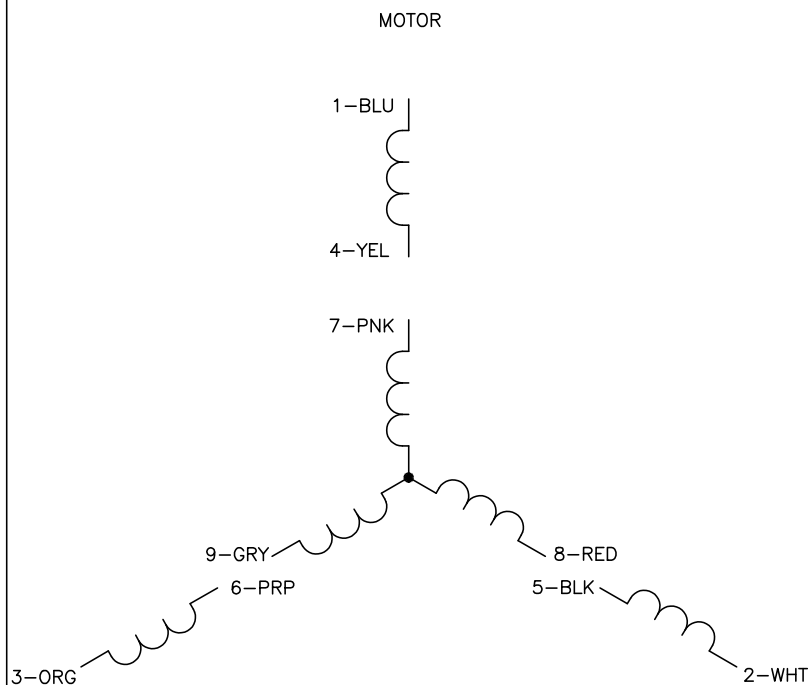
G4LY0116



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

CD0258

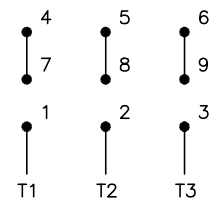


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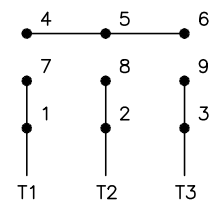
1. GROUND BASE TO BAND.
2. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

STARTER BRACKET CONDUIT BOX

HIGH VOLTAGE



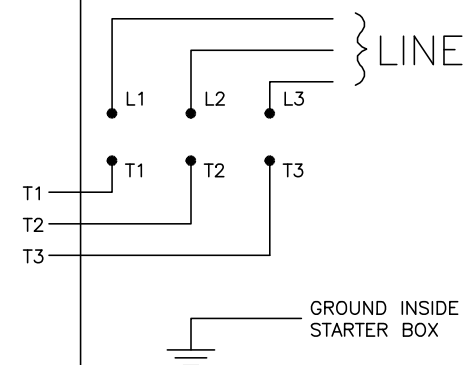
LOW VOLTAGE



NOTE:

THE MOTOR IS FACTORY CONNECTED FOR THE SAME VOLTAGE AS THE MAGNETIC STARTER. A MAGNETIC STARTER FOR THE PROPER VOLTAGE EQUIPPED WITH THE CORRECT HEATER ELEMENTS WILL BE NEEDED FOR A VOLTAGE CONNECTION CHANGE.

STARTER



NOTE:

INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: C	BY: EAH	REVISED: 05/05/99 11:35	TDR: 0179909
89Z000		FILE: AAA00051260	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEAD, GRINDER OR BUFFER W/MAGNETIC STARTER

CD0258

