

ABB BALDOR RELIANCE III

Customer information packet 7306D

.5HP, 1800RPM, 1PH, 60HZ, 3420C, GRND

Specifications

Enclosure	GRND
Frame Material	Steel
Frequency	60.00 Hz 60.00 Hz
Motor Letter Type	Oil Capacitor Start and Run
Nameplate Output	.5
Number of Poles	4 4
Output @ Frequency	.500 HP @ 60 HZ
Phase	1 1
Product Style	GRINDER
Speed	1800 rpm 1800 rpm
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage	115 V 230 V
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ
Agency Approvals	UR
Ambient Temperature	40 °C
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1.900 A @ 230.0 V 3.800 A @ 115.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
Insulation Class	B
KVA Code	-
Motor Lead Quantity/Wire Size	4 @ 18 AWG
Motor Standards	Other

Part Detail

Revision	AL
Type	AC
Mech. spec.	G7-0307
Base	
Status	PRD/A
Elec. spec.	G7WG0385
Layout	G7LY0307
Eff. date	06-23-2023
CD Diagram	CD0279
Poles	04
Leads	4#18
Proprietary	False
Created date	01-01-0001

Motor Type	3420C
Mounting Arrangement	F1
Overall Length	20.89 IN
Product Family	Grinder
Service Factor	1.00
Shaft Extension Location	Double Shaft
Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None

Nameplate

NP3118			
CAT.NO.	7306D		
HP	.5	VOLTS	115/230
PHASE	1	AMPS	3.8/1.9
HZ	60	RPM	1800
SER.NO			
SPEC.	G7-307-385		

Accessories

Part number	Description	Multiplier
GA16E	PEDESTAL LIGHT INDUSTRIAL,STEEL	A8
GA16	PEDESTAL INDUSTRIAL, CAST IRON 6" - 10"	A8
GA14	PEDESTAL FABRICATED STEEL W/SHELVES	A8
B73	7" 36 GRIT GRINDING WHEEL	A8
B74	7" 60 GRIT GRINDING WHEEL	A8
GA9	PAIR LIGHTED EYESHIELDS	A8
GA9-1	SINGLE LIGHTED EYESHIELD	A8
GA9S	PAIR EYESHIELDS W/ ON-OFF SWITCH	A8
GA11	PAIR EYESHIELDS	A8
BQ1-015-CC	1PH Brake, NEMA 1,110-125 VAC, 50/60Hz	P1
BQ1-015-CP	1PH Brake, Panel 110-125 VAC, 50/60 Hz	
DC7	DUST CONTROL UNIT	A8

AC Induction Motor Performance Data

Record # 88749

Typical performance - not guaranteed values

Winding: G7WG0385-R001			Type: 3420C		Enclosure: TENV	
Nameplate Data			115 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		.5	Full Load Torque		1.53 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		3.8/1.9	Breakdown Torque		3.11 LB-FT	
R.P.M.		1800	Pull-up Torque		0.228 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		0.275 LB-FT
NEMA Design Code		-	KVA Code		-	
Starting Current		19.71 A		No-load Current		1.2 A
Service Factor (S.F.)		1	Line-line Res. @ 25°C		2.01 Ω A Ph 22.2 Ω B Ph	
NEMA Nom. Eff.		0	Power Factor		0	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		
				Locked-rotor Power Factor		74.5
				Rotor inertia		0.0472 lb-ft²

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	83	91	94	95	95	95
Efficiency	54.9	69.7	75.3	76.7	75.1	72
Speed	1781	1765	1746	1722	1702	1678
Line amperes	1.78	2.56	3.45	3.8	5.26	5.96

ABB Motors and Mechanical Inc.

WINDING # G7WG0385

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1800 RPM 115 V 3420C

TORQUES (LB-FT): PO=3.11 PU=0.228 LR=0.275 LRA=19.71





