

ABB BALDOR RELIANCE III

Customer information packet

1021W

28M 4P GRNDR

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	1.5
Number of Poles	4
	4
Output @ Frequency	1.500 HP @ 60 HZ
	1.500 HP @ 50 HZ
Phase	3
	3
Shaft Diameter	0.875 IN
	0.875 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	460.0 V @ 60 HZ
	460.0 V @ 50 HZ
	230.0 V @ 60 HZ
	208.0 V @ 50 HZ
	208.0 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.	G10-163
Base	
Status	PRD/A
Elec. spec.	G0WG0360
Layout	GOLY0163
Eff. date	07-23-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-23-2023

Current @ Voltage	4.600 A @ 208.0 V
	4.400 A @ 230.0 V
	2.200 A @ 460.0 V
Design Code	-
Duty Rating	CONT
Insulation Class	B
KVA Code	-
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Standards	Other
Motor Type	3528M
Mounting Arrangement	F1
Overall Length	24.12 IN
Product Family	Grinder
Service Factor	1.00
Shaft Rotation	Phase Seq-Opp Std Rot (CWODe)
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0113			
CAT.NO.	1021W		
HP	1.5	VOLTS	208-230/460
PHASE	3	AMPS	4.6-4.4/2.2
HZ	60//50	RPM	1800//1500
SER.NO			
SPEC.	G10-163G0360		

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
GA24	WATER POT	A8
B102	10" 36 GRIT GRINDING WHEEL	A8
B103	10" 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
DC10	DUST CONTROL UNIT	A8

AC Induction Motor Performance Data

Record # 87539

Typical performance - not guaranteed values

Winding: G0WG0360-R001		Type: G1028M	Enclosure: TENV
Nameplate Data		460 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1.5	Full Load Torque	5.45 LB-FT
Volts	208-230/460	Start Configuration	direct on line
Full Load Amps	4.6-4.4/2.2//4.4-4/2	Breakdown Torque	20.26 LB-FT
R.P.M.	1500//1800	Pull-up Torque	13.77 LB-FT
Hz	50//60 Phase	Locked-rotor Torque	17.79 LB-FT
NEMA Design Code	- KVA Code	Starting Current	13.88 A
Service Factor (S.F.)	1	No-load Current	1.27 A
NEMA Nom. Eff.	0 Power Factor	Line-line Res. @ 25°C	17.9 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	
		Locked-rotor Power Factor	79.9
		Rotor inertia	0.202 lb-ft ²

Load Characteristics 460 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	56	69	77	81	84
Efficiency	77.1	82.7	83	81.1	78.6	74.9
Speed	1484	1466	1447	1426	1401	1370
Line amperes	1.32	1.53	1.83	2.21	2.7	3.2

ABB Motors and Mechanical Inc.

WINDING # G0WG0360

Typical performance - not guaranteed values.

1.5 HP 3 PH 50 HZ 1426 RPM 460 V G1028M

TORQUES (LB-FT): PO=20.26 PU=13.77 LR=17.79 LRA=13.88





