

ABB BALDOR RELIANCE III

Customer information packet

GDM4104T

30HP, 1760RPM, 3PH, 60HZ, 286TZ, 0964M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	286TZ
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	77.400 A @ 208.0 V 72.000 A @ 230.0 V 36.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	G
Type	AC
Mech. spec.	09K981
Base	
Status	INA/A
Elec. spec.	09WGY208
Layout	09LYK981
Eff. date	09-01-2020
CD Diagram	CD0005
Poles	04
Leads	9#10 72" long Y
Proprietary	False
Created date	12-03-2013

High Voltage Full Load Amps	36.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0964M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.93 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1279L											
CAT.NO.	GDM4104T										
SPEC.	09K981Y208H2										
HP	30										
VOLTS	230/460										
AMP	72/36										
RPM	1760										
FRAME	286TZ		HZ	60			PH		3		
SER.F.	1.15		CODE	H		DES	B		CL		F
NEMA-NOM-EFF	92.4		PF	84							
RATING	40C AMB-CONT										
CC											
DE	6311		ODE	6208							
ENCL	TEFC		SN								

Accessories

Part number	Description	Multiplier
09-1310	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 1900

Typical performance - not guaranteed values

Winding: 09WGY208-R001			Type: 0964M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		30		Full Load Torque		88.9 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		72/36		Breakdown Torque		270 LB-FT	
R.P.M.		1760		Pull-up Torque		117 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		192 LB-FT	
NEMA Design Code		B	KVA Code	H		Starting Current	259 A
Service Factor (S.F.)		1.15		No-load Current		12.7 A	
NEMA Nom. Eff.		92.4	Power Factor	84		Line-line Res. @ 25°C	0.257 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		68°C	
S.F. Amps				Temp. Rise @ S.F. Load		84°C	
				Locked-rotor Power Factor		30	
				Rotor inertia		2.8 LB-FT2	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	81	84	86	86	85
Efficiency	88.9	92.7	93.2	92.8	92	90.9	92.3
Speed	1791	1782	1772	1761	1749	1736	1754
Line amperes	15	20.7	27.5	35.8	44.1	53.4	40.78

ABB Motors and Mechanical Inc.

WINDING # 09WGY208

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1760 RPM 460 V 0964M

TORQUES (LB-FT): PO=270 PU=117 LR=192 LRA=259





