

ABB BALDOR RELIANCE III

Customer information packet

GDL1615T

16HP, 1760RPM, 1PH, 60HZ, 256TZ, 3956LC, OPSB

Class -

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	256TZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	16.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 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	62.000 A @ 230.0 V 71.000 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	62.0 a
Insulation Class	F

Part Detail

Revision	AD
Type	AC
Mech. spec.	39T017
Base	
Status	PRD/A
Elec. spec.	39WGX522
Layout	39LYT017
Eff. date	06-26-2024
CD Diagram	CD1084
Poles	04
Leads	2#6 A PH,2#12 B PH
Proprietary	False
Created date	10-03-2005

Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 6 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3956LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.19 IN
Power Factor	96
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	Included
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

NP1256L											
CAT.NO.	GDL1615T										
SPEC.	39T017X522										
HP	16										
VOLTS	208-230										
AMP	71-62										
RPM	1760										
FRAME	256TZ		HZ	60				PH	1		
SER.F.	1.00		CODE	E	DES	L		CLASS	F		
NEMA-NOM-EFF	86.5		PF	96							
RATING	40C AMB-CONT										
CC											
DE	6309		ODE	6307							
ENCL	OPSB		SN								

Accessories

Part number	Description	Multiplier
39-3400	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 37180

Typical performance - not guaranteed values

Winding: 39WGX522-R006			Type: 3956LC		Enclosure: OPSB		
Nameplate Data				230 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		16		Full Load Torque		48.7 LB-FT	
Volts		208-230		Start Configuration		direct on line	
Full Load Amps		71-62		Breakdown Torque		122 LB-FT	
R.P.M.		1760		Pull-up Torque		64.6 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		82.1 LB-FT	
NEMA Design Code		L	KVA Code	E	Starting Current		331 A
Service Factor (S.F.)		1		No-load Current		7.42 A	
NEMA Nom. Eff.		86.5	Power Factor	96	Line-line Res. @ 25°C		0.11 Ω A Ph 0.419 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	

Load Characteristics 230 V, 60 Hz, 16 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	91	96	96	96	95	93
Efficiency	82.9	78.7	89.1	87.3	84.2	78.8
Speed	1785	1771	1753	1734	1710	1672
Line amperes	17.5	34.6	45.6	62.4	81.4	107

ABB Motors and Mechanical Inc.

WINDING # 39WGX522

Typical performance - not guaranteed values.

16 HP 1 PH 60 HZ 1760 RPM 230 V 3956LC

TORQUES (LB-FT): PO=122 PU=64.6 LR=82.1 LRA=331





