

ABB BALDOR RELIANCE III

Customer information packet

EJMM2538T

40HP, 3510RPM, 3PH, 60HZ, 286JM, 3956M, OPSB, F

Class -

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	286JM
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA EEV UR CSA
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	45.000 A @ 460.0 V 90.000 A @ 230.0 V 99.000 A @ 208.0 V
Design Code	A
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	W
Type	AC
Mech. spec.	39E312
Base	
Status	PRD/A
Elec. spec.	39WGX287
Layout	39LYE312
Eff. date	06-26-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	06-22-2009

High Voltage Full Load Amps	45.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3956M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.56 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3510 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

NP2138LUA												
CAT.NO.	EJMM2538T			P/N					ENCLOSURE			OPSB
SPEC.	39E312X287		CC	010A	FRAME		286JM		S/N			
HP	40			CLASS		F	HZ		60			
RPM	3510			PH	3	DES		A				
VOLT	230/460			KVA-CODE			H		ODE BRG	6208	DE BRG	6312
AMP	90/45											
RATING	40C AMB-CONT			GREASE			POLYREX EM					
NEMA-NOM-EFF	92.4	PF	90	SER.F.	1.15							
	50HZ 40HP 190/380V 110/55A						SF1.0					
HTR-VOLTS	HTR-AMPS											

AC Induction Motor Performance Data

Record # 13126

Typical performance - not guaranteed values

Winding: 39WGX287-R001				Type: 3956M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		40		Full Load Torque		60.7 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		90/45		Breakdown Torque		252 LB-FT	
R.P.M.		3510		Pull-up Torque		80.9 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		115 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		326 A	
Service Factor (S.F.)		1.15		No-load Current		11.3 A	
NEMA Nom. Eff.		92.4	Power Factor	Line-line Res. @ 25°C		0.211 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C	
S.F. Amps				Temp. Rise @ S.F. Load		77°C	
				Locked-rotor Power Factor		28	
				Rotor inertia		1.43 LB-FT2	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	82	88	90	91	92	91
Efficiency	92.7	94.1	93.8	92.7	91.4	89.9	91.9
Speed	3578	3555	3531	3503	3474	3441	3486
Line amperes	16.1	24.4	34.1	45.3	56.6	68.6	52.08

ABB Motors and Mechanical Inc.

WINDING # 39WGX287

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 3510 RPM 460 V 3956M

TORQUES (LB-FT): PO=252 PU=80.9 LR=115 LRA=326





