

ABB BALDOR RELIANCE III

Customer information packet

EJMM2539T-G

64M 4P OPSB HOR 324JM SE

Specifications

Enclosure	OPSB
Frame	324JM
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	40.000 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	UR NEMA PREMIUM CSA EEV 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	49.000 A @ 460.0 V 98.000 A @ 230.0 V 99.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	49.0 a

Part Detail

Revision	L
Type	AC
Mech. spec.	40E285
Base	
Status	PRD/A
Elec. spec.	40WGX166
Layout	40LYE285
Eff. date	12-11-2025
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	04-03-2019

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP23
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.44 IN
Power Factor	82
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	1.250 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3554LUA												
CAT.NO.	EJMM2539T-G				P/N						ENCL	OPSB
SPEC.	40E285X166G2		CC	010A		FRAME	324JM		SER.NO.			
HP	40			CLASS		H	HZ	60				
RPM	1770			PH	3	DES		A				
VOLTS	230/460				CODE		H		ODE BRG	6309	DE BRG 6312	
AMPS	98/49											
RATING	40C AMB-CONT			NEMA-NOM-EFF				94.1		GREASE	POLYREX EM	
PF	82	SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)							
USABLE AT	50HZ 40HP 190/380V 114/57A					SF1.0						
HTR-VOLTS	HTR-AMPS		MAX. SPACE HEATER TEMP.									

AC Induction Motor Performance Data

Record # 35574

Typical performance - not guaranteed values

Winding: 40WGX166-R003				Type: 4064M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		40		Full Load Torque		119 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		98/49		Breakdown Torque		427 LB-FT		
R.P.M.		1770		Pull-up Torque		187 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		246 LB-FT		
NEMA Design Code		A	KVA Code	Starting Current		330 A		
Service Factor (S.F.)		1.15		No-load Current		21.1 A		
NEMA Nom. Eff.		94.1	Power Factor	82		Line-line Res. @ 25°C		0.16236 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C		
S.F. Amps				Temp. Rise @ S.F. Load		51°C		
				Locked-rotor Power Factor		32		
				Rotor inertia		5.09 LB-FT2		

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	82	85	85	84
Efficiency	91.1	94	94.5	94.2	93.6	92.8	93.8
Speed	1792.4	1785	1777.8	1770.2	1762.1	1752.8	1765
Line amperes	24.1	30.7	39.2	48.7	59.3	71.3	55.1

ABB Motors and Mechanical Inc.

WINDING # 40WGX166

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1770 RPM 460 V 4064M

TORQUES (LB-FT): PO=427 PU=187 LR=246 LRA=330





