

ABB BALDOR RELIANCE III

Customer information packet

EJMM2531T-G

25HP, 1775RPM, 3PH, 60HZ, 284JM, 4050M, OPSB, F

Specifications

Enclosure	OPSB
Frame	284JM
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM 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	64.000 A @ 208.0 V 60.000 A @ 230.0 V 30.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a

Part Detail

Revision	E
Type	AC
Mech. spec.	40E283
Base	
Status	PRD/A
Elec. spec.	40WGX806
Layout	40LYE283
Eff. date	12-11-2025
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	02-10-2021

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4050M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.94 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	Shaft Slinger
Speed	1775 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

NP3554LUA												
CAT.NO.	EJMM2531T-G				P/N						ENCL	OPSB
SPEC.	40E283X806G2		CC	010A		FRAME	284JM		SER.NO.			
HP	25			CLASS		H	HZ	60				
RPM	1775			PH	3		DES	A				
VOLTS	230/460				CODE		G		ODE BRG	6309	DE BRG 6312	
AMPS	60/30											
RATING	40C AMB-CONT			NEMA-NOM-EFF				93.6		GREASE	POLYREX EM	
PF	82	SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)							
USABLE AT	50HZ 25HP 190/380V 72/36A					SF1.0						
HTR-VOLTS	HTR-AMPS	MAX. SPACE HEATER TEMP.										

Parts List

Part number	Description	Quantity
SA390489	SA 40E283X806G2	1.000 ea
RA380940	RA 40E283X806G2	1.000 ea
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 ea
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
40EP3200A02	STD FREP OPEN 309 BRG	1.000 ea
HA1166A06	RODENT SCREEN FOR 40 ENDPLATE 40EP3200.	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
40EP1300A07	PU ENDPLATE, MACH	1.000 ea
HA1166A02	RODENT SCREEN FOR 40 ENDPLATE 40EP1300A.	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
10CB3500SP	CONDUIT BOX LID, CAST	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 ea
HW2501E22	KEY, 1/4 SQ X 2.500	1.000 ea
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea

HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA3113A06	THRUBOLT 3/8 - 16 X 18.000	4.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.070 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3554LUA	SS SUPER-E VPWM INV READY,CURUS-EEV,PREM	1.000 ea
40PA1000	PACKAGING GROUP	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data

Record # 86830

Typical performance - not guaranteed values

Winding: 40WGX806-R002			Type: 4050M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		25		Full Load Torque		73.81 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		60/30		Breakdown Torque		232 LB-FT
R.P.M.		1775		Pull-up Torque		116 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		133 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		192 A
Service Factor (S.F.)		1.15		No-load Current		12.6 A
NEMA Nom. Eff.		93.6	Power Factor	Line-line Res. @ 25°C		0.35407 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		28°C
S.F. Amps				Temp. Rise @ S.F. Load		34°C
				Locked-rotor Power Factor		35

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	78	82	85	85	84
Efficiency	89.4	93.1	93.8	93.6	93	92.1	93.2
Speed	1794.8	1789.5	1783.7	1777.6	1771	1763.2	1774
Line amperes	14.5	18.6	24.1	30.3	37.2	44.6	34.4

ABB Motors and Mechanical Inc.

WINDING # 40WGX806

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1775 RPM 460 V 4050M

TORQUES (LB-FT): PO=232 PU=116 LR=133 LRA=192





