

ABB BALDOR RELIANCE III

Customer information packet EM2536T-G

30HP, 1180RPM, 3PH, 60HZ, 326T, 4084M, OPSB, F1

Specifications

Enclosure	OPSB
Frame	326T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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	76.000 A @ 230.0 V 80.000 A @ 208.0 V 38.000 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	38.0 a

Part Detail

Revision	V
Type	AC
Mech. spec.	40E245
Base	
Status	PRD/A
Elec. spec.	40WGX122
Layout	40LYE245
Eff. date	11-29-2023
CD Diagram	CD0005
Poles	06
Leads	9#10
Proprietary	False
Created date	12-01-2011

Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	4084M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.69 IN
Power Factor	79
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	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 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.	EM2536T-G			P/N					ENCLOSURE			OPSB
SPEC.	40E245X122G1		CC	010A	FRAME		326T		S/N			
HP	30			CLASS		H	HZ		60			
RPM	1180			PH	3	DES		A				
VOLT	230/460			KVA-CODE			H		ODE BRG	6309	DE BRG	6312
AMP	78/39											
RATING	40C AMB-CONT			GREASE			POLYREX EM					
NEMA-NOM-EFF	93.6	PF	77	SER.F.	1.15							
	50HZ 30HP 190/380V 88/44A						SF1.0					
HTR-VOLTS	HTR-AMPS											

AC Induction Motor Performance Data

Record # 66227

Typical performance - not guaranteed values

Winding: 40WGX122-R002			Type: 4084M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		30	Full Load Torque		133.3 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		78/39	Breakdown Torque		417 LB-FT		
R.P.M.		1180	Pull-up Torque		187 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		233 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		267 A
Service Factor (S.F.)		1.15	No-load Current		18.1 A		
NEMA Nom. Eff.		93.6	Power Factor	77	Line-line Res. @ 25°C		0.2452 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		40°C
S.F. Amps					Temp. Rise @ S.F. Load		49°C
					Locked-rotor Power Factor		28.6

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	60	72	77	80	81	79
Efficiency	89.6	93.2	93.8	93.6	92.9	92.1	93.2
Speed	1196.1	1192.3	1188.4	1184.2	1179.4	1174.2	1181
Line amperes	20.2	25	31.5	39	47.4	56.7	44

ABB Motors and Mechanical Inc.

WINDING # 40WGX122

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1180 RPM 460 V 4084M

TORQUES (LB-FT): PO=417 PU=187 LR=233 LRA=267





