

BALDOR • RELIANCE

Customer information packet

EM2535T-12

30HP, 1775RPM, 3PH, 60HZ, 286T, 4060M, OPSB, F1

Specifications

Enclosure	OPSB
Frame	286T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 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 EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	76.000 A @ 208.0 V 72.000 A @ 230.0 V 36.000 A @ 460.0 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	L
Type	AC
Mech. spec.	40D101
Base	
Status	PRD/A
Elec. spec.	40WGX349
Layout	40LYD101
Eff. date	06-27-2024
CD Diagram	CD0104
Poles	04
Leads	12#10
Proprietary	False
Created date	05-26-2016

High Voltage Full Load Amps	36.0 a
Insulation Class	F
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	12 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4060M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.06 IN
Power Factor	82
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	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
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.	EM2535T-12			P/N					ENCL	OPSB
SPEC.	40D101X349G1	CC	010A	FRAME		286T	SER.NO.			
HP	30	CLASS		F	HZ	60				
RPM	1775	PH	3	DES		A				
VOLTS	230/460			CODE		H	ODE BRG	6309	DE BRG	6311
AMPS	72/36									
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 30HP 190/380V 86/43A			SF 1.0						
HTR-VOLTS	HTR-AMPS	MAX. SPACE HEATER TEMP.								

AC Induction Motor Performance Data

Record # 57331

Typical performance - not guaranteed values

Winding: 40WGX349-R001		Type: 4060M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	30		Full Load Torque	88.8 LB-FT	
Volts	230/460		Start Configuration	direct on line	
Full Load Amps	72/36		Breakdown Torque	278 LB-FT	
R.P.M.	1775		Pull-up Torque	130 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	160 LB-FT	
NEMA Design Code	A	KVA Code	H	Starting Current	250 A
Service Factor (S.F.)	1.15		No-load Current	15.1 A	
NEMA Nom. Eff.	94.1	Power Factor	82	Line-line Res. @ 25°C	0.204 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	29°C	
S.F. Amps			Temp. Rise @ S.F. Load	35°C	
			Locked-rotor Power Factor	31.3	
			Rotor inertia	4.77 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	78	83	85	86	84
Efficiency	90.4	93.9	94.4	94.4	93.5	93.1	93.9
Speed	1794	1788	1782	1777	1770	1763	1773
Line amperes	17.4	22.3	28.8	36.1	44.2	52.9	41

ABB Motors and Mechanical Inc.

WINDING # 40WGX349

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1775 RPM 460 V 4060M

TORQUES (LB-FT): PO=278 PU=130 LR=160 LRA=250





