



Customer information packet

CEM2535T

30HP, 1775RPM, 3PH, 60HZ, 286TC, 4060M, OPSB, F

Specifications

Enclosure	OPSB
Frame	286TC
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	P
Type	AC
Mech. spec.	40D102
Base	
Status	PRD/A
Elec. spec.	40WGX339
Layout	40LYD102
Eff. date	09-10-2024
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	05-26-2016

High Voltage Full Load Amps	36.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
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	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	C-Face
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	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.	CEM2535T			P/N						ENCL	OPSB
SPEC.	40D102X339G1	CC	010A	FRAME	286TC	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	74/37										
RATING	40C AMB-CONT		NEMA-NOM-EFF			94.1	GREASE	POLYREX EM			
PF	80	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 # 56978

Typical performance - not guaranteed values

Winding: 40WGX339-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		280 LB-FT	
R.P.M.		1775	Pull-up Torque		130 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		161 LB-FT	
NEMA Design Code		A KVA Code	Starting Current		252 A	
Service Factor (S.F.)		1.15	No-load Current		15.4 A	
NEMA Nom. Eff.		94.1 Power Factor	Line-line Res. @ 25°C		0.22043 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		31.4	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	67	77	82	85	85	84
Efficiency	90.5	93.8	94.4	94.3	93.9	93.2	94.1
Speed	1793.6	1788.1	1782.5	1776.9	1770.4	1763.1	1773
Line amperes	17.7	22.5	29	36.3	44.3	53	41.1

ABB Motors and Mechanical Inc.

WINDING # 40WGx339

Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=280 PU=130 LR=161 LRA=252





