



Product Information Packet

CEM2531T

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

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGX806	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	40D102	Layout:	40LYD102	Poles:	04	Created Date:	02-10-2021
Base:	RG	Eff. Date:	01-31-2022	Leads:	9#10		

Specs			
Catalog Number:	CEM2531T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	284TC	IP Rating:	NONE
Frame Material:	Steel	KVA Code:	G
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	25.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 10 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
Agency Approvals:	CSA	Motor Type:	4050M
	CSA EEV	Mounting Arrangement:	F1
	UR	Power Factor:	82
Auxillary Box:	No Auxillary Box	Product Family:	General Purpose
Auxillary Box Lead Termination:	None	Pulley End Bearing Type:	Ball
Base Indicator:	Rigid	Pulley Face Code:	C-Face
Bearing Grease Type:	Polyrex EM (-20F +300F)	Pulley Shaft Indicator:	Standard
Blower:	None	Rodent Screen:	None
Current @ Voltage:	64.000 A @ 208.0 V	Shaft Extension Location:	Pulley End

	60.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	30.000 A @ 460.0 V	Shaft Rotation:	Reversible
Design Code:	A	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3554LUA

CAT.NO.	CEM2531T			P/N				ENCL	OPSB
SPEC.	40D102X806G1		CC	010A	FRAME	284TC		SER.NO.	
HP	25		CLASS	F	HZ	60			
RPM	1775		PH	3	DES	A			
VOLTS	230/460			CODE	G	ODE BRG	6309	DE BRG	6311
AMPS	60/30		USABLE AT 208V		64				
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.					

AC Induction Motor Performance Data

Record # 86783

Typical performance - not guaranteed values

Winding: 40WGx806-R001				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	G	Starting Current		192 A
Service Factor (S.F.)		1.15		No-load Current		12.6 A		
NEMA Nom. Eff.		93.6	Power Factor	82	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

Performance Graph at 460V, 60Hz, 25.0HP Typical performance - Not guaranteed values





