



Product Information Packet

CEM4104T

30HP,1760RPM,3PH,60HZ,286TC,1056M,TEFC,F

Part Detail							
Revision:	AE	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGY538	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	10C152	Layout:	10LYC152	Poles:	04	Created Date:	05-17-2010
Base:	RG	Eff. Date:	05-26-2022	Leads:	9#8		

Specs			
Catalog Number:	CEM4104T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	286TC	Inverter Code:	Inverter Ready
Frame Material:	Iron	IP Rating:	NONE
Motor Letter Type:	Three Phase	KVA Code:	J
Output @ Frequency:	30.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	1056M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	80
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None

Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	78.000 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
	76.000 A @ 230.0 V	Shaft Rotation:	Reversible
	38.000 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3443LUA

CAT.NO.	CEM4104T			CUST. P/N				ENCL	TEFC
SPEC.	10C152Y538G1	CC	010A	FRAME	286TC	SER.NO.			
HP	30	CLASS	F	HZ	60				
R.P.M.	1760	PH.	3	DES.	A				
VOLTS	230/460	CODE	J	ODE BRG	6309	DE BRG	6311		
AMPS	76/38	USABLE AT 208V	78						
RATING	40C AMB-CONT	NEMA NOM. EFF.	93.6	GREASE	POLYREX EM				
P.F.	80	SER.F.	1.15	CT6-60H(10:1)VT3-60H(20:1)					
USABLE AT	50Hz 30HP 190/380V 88/44A			SF1.0					
VOLTS		AMPS		MAX. SPACE HEATER TEMP.					

AC Induction Motor Performance Data

Record # 32189

Typical performance - not guaranteed values

Winding: 10WGY538-R004			Type: 1056M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		30	Full Load Torque		88.7 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		76/38	Breakdown Torque		330 LB-FT		
R.P.M.		1760	Pull-up Torque		142 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		178 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		270 A
Service Factor (S.F.)		1.15		No-load Current		17.9 A	
NEMA Nom. Eff.		93.6	Power Factor	80	Line-line Res. @ 25°C		0.19377 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		64°C	
S.F. Amps				Temp. Rise @ S.F. Load		76°C	
				Locked-rotor Power Factor		30.9	
				Rotor inertia		4.47 LB-FT2	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	63	73	80	82	85	81
Efficiency	87.6	92.3	93.5	93.7	93.4	92.9	93.5
Speed	1792.2	1787.6	1782.4	1776.5	1770.3	1762.1	1773
Line amperes	19.8	24.3	30.7	37.6	45.6	55.2	42.4

Performance Graph at 460V, 60Hz, 30.0HP Typical performance - Not guaranteed values





