



Product Information Packet

CEM2515T

20HP,1765RPM,3PH,60HZ,256TC,3948M,OPSB,F

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGX952	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	39D102	Layout:	39LYD102	Poles:	04	Created Date:	06-22-2016
Base:	RG	Eff. Date:	04-17-2021	Leads:	9#10		

Specs			
Catalog Number:	CEM2515T	Heater Indicator:	No Heater
Enclosure:	OPSB	Insulation Class:	F
Frame:	256TC	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	G
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	20.000 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:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3948M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	85
	CSA EEV	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End

Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	24.000 A @ 460.0 V	Shaft Rotation:	Reversible
	48.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
	52.000 A @ 208.0 V	Speed Code:	Single Speed
Design Code:	A	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None

Nameplate NP3554LUA

CAT.NO.	CEM2515T	P/N		ENCL	OPSB
SPEC.	39D102X952G1	CC	010A	FRAME	256TC
HP	20	CLASS	F	HZ	60
RPM	1765	PH	3	DES	A
VOLTS	230/460	CODE	G	ODE BRG	6208
AMPS	48/24	USABLE AT 208V	52	DE BRG	6309
RATING	40C AMB-CONT	NEMA-NOM-EFF	93	GREASE	POLYREX EM
PF	85	SER.F.	1.15	CT30-60(2:1)	VT3-60(20:1)
USABLE AT	50HZ 20HP 190/380V 58/29A	SF	1.0		
HTR-VOLTS		HTR-AMPS		MAX. SPACE HEATER TEMP.	

AC Induction Motor Performance Data

Record # 56778

Typical performance - not guaranteed values

Winding: 39WGX952-R001			Type: 3948M	Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		20	Full Load Torque		59.7 LB-FT
Volts		230/460	Start Configuration		direct on line
Full Load Amps		48/24	Breakdown Torque		187 LB-FT
R.P.M.		1765	Pull-up Torque		78.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	112 LB-FT
NEMA Design Code	A	KVA Code	G	Starting Current	156 A
Service Factor (S.F.)		1.15	No-load Current		8.83 A
NEMA Nom. Eff.	93	Power Factor	85	Line-line Res. @ 25°C	0.48438 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		37°C
S.F. Amps			Temp. Rise @ S.F. Load		46°C
			Locked-rotor Power Factor		33.3

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	81	85	87	87	86
Efficiency	90.2	93.3	93.5	93	92.2	91	92.5
Speed	1792.2	1784.8	1776.1	1767.5	1757.6	1746.3	1762
Line amperes	10.5	14	18.6	23.8	29.4	35.6	27.2

Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values





