



Product Information Packet

ECP2334T

20HP,1770RPM,3PH,60HZ,256T,0960M,TEFC,F1

Part Detail							
Revision:	L	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGT459	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	09J371	Layout:	09LYJ371	Poles:	04	Created Date:	11-27-2017
Base:	RG	Eff. Date:	04-05-2022	Leads:	9#10		

Specs			
Catalog Number:	ECP2334T	Front Shaft Indicator:	None
Enclosure:	TEFC	Heater Indicator:	No Heater
Frame:	256T	Insulation Class:	F
Frame Material:	Iron	Inverter Code:	Inverter Duty
Motor Letter Type:	Three Phase	KVA Code:	J
Output @ Frequency:	20.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 10 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	CLI GP A,B,C,D	Motor Lead Termination:	Flying Leads
XP Division:	Division II	Motor Type:	0960M
Agency Approvals:	CCSA US	Mounting Arrangement:	F1
	CSA	Power Factor:	83
	CSA EEV	Product Family:	Super-E Chemical Processing
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
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
Constant Torque Speed Range:	1.0	Shaft Rotation:	Reversible
Current @ Voltage:	52.000 A @ 208.0 V	Shaft Slinger Indicator:	Shaft Slinger
	48.000 A @ 230.0 V	Speed Code:	Single Speed
	24.000 A @ 460.0 V	Motor Standards:	NEMA
Design Code:	A	Starting Method:	Direct on line
Drip Cover:	No Drip Cover	Thermal Device - Bearing:	None
Duty Rating:	CONT	Thermal Device - Winding:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Vibration Sensor Indicator:	No Vibration Sensor
Feedback Device:	NO FEEDBACK	Winding Thermal 1:	None
Front Face Code:	Standard	Winding Thermal 2:	None
		XP Temp Code:	T3C

Nameplate NP3995ABEL

CAT # ECP2334T

SER

CC 010A

SPEC 09J371T459G1

RATING 40C AMB-CONT

HZ

VOLTS

AMPS

RPM

HP

CODE

SF

DES

PF

NEMA NOM. EFF

60

230/460

48/24

1770

20

J

1.15

A

83

%

93

%

%

%

PH 3

CL F

MAX RPM 2700

MAX CORR KVAR 5.35

USABLE AT 208V

52

IP55

FR 256T

ENCL TEFC

DE BRG 6309

ODE BRG 6309

GREASE POLYREX EM

MTR WT 334

LBS

USABLE AT 50HZ 15HP 190/380V 44/22A

SF1.0

CL I DIV 2 GRPS A,B,C,D

CL I ZONE 2 GRPS

IIA,IIB,IIC

TEMP T 160

C

1.0 SF ON PWM INVERTER

POWER

INV TEMP CL 180

C

CHP 60-90

HZ

1.5:1

CT

1.0-60

HZ

60:1

VT

0-60

HZ

1000:1

SPACE HEATER LEADS H1-H2:

TIE LIKE NUMBERS

TOGETHER

V

A

W

MAX SPACE HEATER TEMP

AC Induction Motor Performance Data

Record # 68075

Typical performance - not guaranteed values

Winding: 09WGT459-R011				Type: 0960M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		20		Full Load Torque		59.27 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		48/24		Breakdown Torque		232 LB-FT	
R.P.M.		1770		Pull-up Torque		126 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		141 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		198 A
Service Factor (S.F.)		1.15		No-load Current		10.4 A	
NEMA Nom. Eff.		93	Power Factor	83	Line-line Res. @ 25°C		0.33814 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		58°C	
S.F. Amps				Temp. Rise @ S.F. Load		70°C	
				Locked-rotor Power Factor		26.5	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	78	83	86	87	85
Efficiency	89.2	93	93.7	93.6	93.1	92.4	93.3
Speed	1793.2	1786.4	1779.1	1771.9	1763.7	1755.3	1767
Line amperes	11.8	15	19.2	24	29.3	34.9	27.2

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





