



Product Information Packet

ECP4108T

30HP,3525RPM,3PH,60HZ,286TS,1048M,TEFC,F

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGZ501	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	10H423	Layout:	10LYH423	Poles:	02	Created Date:	01-07-2016
Base:	RG	Eff. Date:	11-23-2020	Leads:	9#10		

Specs			
Catalog Number:	ECP4108T	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Duty
Frame:	286TS	KVA Code:	G
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	30.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	3600 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
XP Class and Group:	CLI GP A,B,C,D	Motor Type:	1048M
XP Division:	Division II	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	90
	CSA EEV	Product Family:	Super-E Chemical Processing
	CSA	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:	6	Shaft Rotation:	Reversible
Current @ Voltage:	34.000 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
	68.000 A @ 230.0 V	Speed Code:	Single Speed
Design Code:	B	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
Heater Indicator:	No Heater	XP Temp Code:	T3

Nameplate NP3241

CAT.NO.	ECP4108T	P/N		ENCLOSURE	TEFC						
SPEC.	10H423Z501G1	CC	010A	FRAME	286TS	S/N					
HP	30	CLASS	F	HZ	60	DES	B				
RPM	3525	RPM MAX	5400	PH	3	KVA-CODE	G				
VOLT	230/460	MOTOR WEIGHT	396								
AMP	68/34	SER.F.	1.15	PF	90	ODE BRG	6311	DE BRG	6311		
RATING	40C AMB-CONT	NEMA-NOM-EFF	91.7	GREASE	POLYREX EM						
				INV.TYPE	PWM						
TEMP CODE	T3	INVERTER-TEMP-CODE	200								
TEMP =	200	C HP FR	60	C HP TO	90						
CT HZ FROM	6	CT HZ TO	60								
HTR-VOLTS		HTR-AMPS		HTR-WATTS		MAX. SPACE HEATER TEMP.		VT HZ FROM	3	VT HZ TO	60

AC Induction Motor Performance Data

Record # 55452

Typical performance - not guaranteed values

Winding: 10WGZ501-R001			Type: 1048M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		30	Full Load Torque		44.8 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		68/34	Breakdown Torque		135 LB-FT		
R.P.M.		3520	Pull-up Torque		47 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		65.2 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		212 A
Service Factor (S.F.)		1.15	No-load Current		8.74 A		
NEMA Nom. Eff.		91.7	Power Factor	90	Line-line Res. @ 25°C		0.24052 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		69°C
S.F. Amps					Temp. Rise @ S.F. Load		85°C
					Locked-rotor Power Factor		23.2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	67	83	88	90	90	90	90
Efficiency	87	91.3	92	91.7	90.9	89.7	91.2
Speed	3583	3565.7	3547.3	3526.7	3504.4	3479.1	3513
Line amperes	12.4	18.7	26.1	34.1	43.1	52.5	39.5

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





