



Product Information Packet

CEM3314T

15HP,3500RPM,3PH,60HZ,215TC,3734M,OPSB,F

Part Detail							
Revision:	S	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGS867	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37B102	Layout:	37LYB102	Poles:	02	Created Date:	01-11-2012
Base:	RG	Eff. Date:	08-15-2022	Leads:	9#12		

Specs			
Catalog Number:	CEM3314T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	215TC	IP Rating:	NONE
Frame Material:	Steel	KVA Code:	G
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	15.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 12 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:	None	Motor Type:	3734M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	89
	CSA EEV	Product Family:	General Purpose
	UR	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:	17.500 A @ 460.0 V	Shaft Rotation:	Reversible
	35.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	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
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP3553LUA

CAT.NO.	CEM3314T											
SPEC.	37B102S867G1											
HP	15											
VOLTS	230/460											
AMPS	35/17.5											
RPM	3475											
FRAME	215TC				HZ		60		PH		3	
SF	1.15		CODE		G		DES		B		CLASS	F
NEMA NOM. EFF	90.2		PF		89							
RATING	40C AMB-CONT											
CC	010A		USABLE AT 208V									
DE	6307				ODE		6206					
ENCL	OPSB		SN									
VPWM INVERTER READY												
CT30-60(2:1) VT3-60(20:1)												
USABLE AT	50HZ 15HP 190/380V 41.6/20.8A										SF1.0	

AC Induction Motor Performance Data

Record # 37431

Typical performance - not guaranteed values

Winding: 37WGS867-R001			Type: 3734M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15	Full Load Torque		22.6 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		35/17.5	Breakdown Torque		92 LB-FT		
R.P.M.		3500	Pull-up Torque		28.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		37.5 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		109.3 A
Service Factor (S.F.)		1.15	No-load Current		5.49 A		
NEMA Nom. Eff.		90.2	Power Factor	79	Line-line Res. @ 25°C		0.7163 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		46°C
S.F. Amps					Temp. Rise @ S.F. Load		59°C
					Locked-rotor Power Factor		33
					Rotor inertia		0.31 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	78	86	89	89	88	89
Efficiency	90.3	92.5	92.2	90.9	89.2	87.1	89.9
Speed	3572	3545.3	3514.9	3479.7	3441.4	3398.7	3457
Line amperes	6.69	9.59	13.2	17.3	22	27.3	20.1

Performance Graph at 460V, 60Hz, 15.0HP Typical performance - Not guaranteed values





