



Customer information packet

CEM3212T

5HP, 3450RPM, 3PH, 60HZ, 182TC, 3622M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	182TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.800 A @ 208.0 V 6.000 A @ 460.0 V 12.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	S
Type	AC
Mech. spec.	36B102
Base	
Status	PRD/A
Elec. spec.	36WGS040
Layout	36LYB102
Eff. date	12-16-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	08-04-2010

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3622M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.62 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3553LUA									
CAT.NO.	CEM3212T								
SPEC.	36B102S040G1								
HP	5								
VOLTS	230/460								
AMPS	12/6								
RPM	3450								
FRAME	182TC		HZ	60		PH	3		
SF	1.15	CODE	K	DES	A	CLASS	F		
NEMA NOM. EFF	86.5	PF	91						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SN							
DE	6206		ODE	6205					
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 5HP 190/380V 14.6/7.3A						SF1.0		

AC Induction Motor Performance Data

Record # 53354

Typical performance - not guaranteed values

Winding: 36WGS040-R014				Type: 3622M		Enclosure: OPSB					
Nameplate Data				460 V, 60 Hz: High Voltage Connection							
Rated Output (HP)		5		Full Load Torque		7.66 LB-FT					
Volts		230/460		Start Configuration		direct on line					
Full Load Amps		12/6		Breakdown Torque		29.99 LB-FT					
R.P.M.		3450		Pull-up Torque		17.89 LB-FT					
Hz		60 Phase		3		Locked-rotor Torque		22.24 LB-FT			
NEMA Design Code		A		KVA Code		K		Starting Current		49.63 A	
Service Factor (S.F.)		1.15		No-load Current		1.99 A					
NEMA Nom. Eff.		86.5		Power Factor		91		Line-line Res. @ 25°C		3.07 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		34°C					
S.F. Amps				Temp. Rise @ S.F. Load		42°C					
				Locked-rotor Power Factor		49.2					
				Rotor inertia		0.0988 LB-FT2					

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	79	87	90	92	93	92
Efficiency	81.4	86.5	87.6	86.6	85.3	83.5	86.1
Speed	3566	3535	3503	3465	3423	3379	3445
Line amperes	2.5	3.49	4.68	6.06	7.56	9.15	6.91

ABB Motors and Mechanical Inc.

WINDING # 36WGS040

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3450 RPM 460 V 3622M

TORQUES (LB-FT): PO=29.99 PU=17.89 LR=22.24 LRA=49.63





