



Customer information packet

CEM3211T

3HP, 1765RPM, 3PH, 60HZ, 182TC, 3630M, 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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	8.400 A @ 230.0 V 8.500 A @ 208.0 V 4.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	N
Type	AC
Mech. spec.	36B102
Base	
Status	PRD/A
Elec. spec.	36WGS658
Layout	36LYB102
Eff. date	12-16-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	06-01-2011

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 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	3630M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.00 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	1765 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.	CEM3211T								
SPEC.	36B102S658G1								
HP	3								
VOLTS	230/460								
AMPS	8.4/4.2								
RPM	1765								
FRAME	182TC		HZ	60			PH	3	
SF	1.15	CODE	K	DES	B	CLASS	F		
NEMA NOM. EFF	89.5	PF	74						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SN							
DE	6206		ODE	6205					
VPWM INVERTER READY		SFA 9.5/4.7							
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 3HP 190/380V 8.6/4.3A							SF1.0	

AC Induction Motor Performance Data

Record # 33604

Typical performance - not guaranteed values

Winding: 36WGS658-R001			Type: 3630M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		8.87 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		8.4/4.2	Breakdown Torque		37.4 LB-FT		
R.P.M.		1765	Pull-up Torque		17.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		21.2 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		32.3 A
Service Factor (S.F.)		1.15	No-load Current		2.43 A		
NEMA Nom. Eff.		89.5	Power Factor	74	Line-line Res. @ 25°C		3.8716 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		24°C
S.F. Amps					Temp. Rise @ S.F. Load		28°C
					Locked-rotor Power Factor		43
					Rotor inertia		0.279 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	66	73	79	81	77
Efficiency	80.2	87.5	89.5	89.7	89.5	88.7	89.6
Speed	1791.1	1783	1774.5	1765.5	1755.7	1744.8	1760
Line amperes	2.6	2.99	3.54	4.25	4.97	5.83	4.68

ABB Motors and Mechanical Inc.

WINDING # 36WGS658

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1765 RPM 460 V 3630M

TORQUES (LB-FT): PO=37.4 PU=17.3 LR=21.2 LRA=32.3





