



Customer information packet

CEM3550T

1.5HP, 3500RPM, 3PH, 60HZ, 143TC, 3520M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143TC
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	1.500 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 NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.000 A @ 208.0 V 3.800 A @ 230.0 V 1.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part detail

Revision	X
Type	AC
Mech. spec.	35TT856
Base	
Status	PRD/A
Elec. spec.	35WGM760
Layout	35LYTT856
Eff. date	04-30-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	08-03-2010

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.29 IN
Power Factor	85
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	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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

NP3441LUA

CAT.NO.	CEM3550T									
SPEC	35TT856M760G1									
HP	1.5									
VOLTS	230/460									
AMPS	3.8/1.9									
RPM	3500									
FRAME	143TC		HZ	60			PH	3		
SF	1.15		CODE	L	DES	B	CLASS	F		
NEMA NOM. EFF	84		PF	85						
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC		SER							
DE	6205		ODE	6203						
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1	50Hz 1.5HP 190/380V 4.6/2.3A								SF1.0	

AC Induction Motor Performance Data

Record # 61761

Typical performance - not guaranteed values

Winding: 35WGM760-R069			Type: 3520M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		1.5	Full Load Torque		2.22 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		3.8/1.9	Breakdown Torque		9.49 LB-FT			
R.P.M.		3500	Pull-up Torque		3.61 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		7.35 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		17.9 A	
Service Factor (S.F.)		1.15	No-load Current		0.932 A			
NEMA Nom. Eff.		84	Power Factor		85	Line-line Res. @ 25°C		12.2 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		43°C	
S.F. Amps			Temp. Rise @ S.F. Load		50°C			
			Locked-rotor Power Factor		60.1			
			Rotor inertia		0.0553 LB-FT2			

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	79	85	89	90	87
Efficiency	72.3	82.2	84.4	84.8	84.3	82.8	84.5
Speed	3575	3551	3526	3498	3466	3433	3479
Line amperes	1.03	1.25	1.55	1.91	2.31	2.79	2.15

ABB Motors and Mechanical Inc.

WINDING # 35WGM760

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3500 RPM 460 V 3520M

TORQUES (LB-FT): PO=9.49 PU=3.61 LR=7.35 LRA=17.9





