



Customer information packet

VEDM3550

1.5HP, 3500RPM, 3PH, 60HZ, 56C, 3520M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
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

Part detail

Revision	K
Type	AC
Mech. spec.	35E4312
Base	
Status	PRD/A
Elec. spec.	35WGM760
Layout	35LYE4312
Eff. date	05-30-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	05-11-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.9 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
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	12.23 IN
Power Factor	85
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 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

NP3504											
CAT NO	VEDM3550										
SPEC.	35E4312M760G1						ENCL	TEFC			
FRAME	56C	HP		1.5							
VOLTS	230/460										
FLA	3.8/1.9				I.P.		56				
RPM	3500	RPM MAX				5400					
HZ	60	PH	3	CLASS		F					
SER.F.	1.15	DES	B	CC	010A						
NEMA-NOM-EFF	84										
RATING	40C AMB-CONT										
DE BRG	6205	ODE BRG				6203					
GREASE	POLYREX EM										
INV.TYPE		C HP FR			60	C HP TO			90		
CT HZ FROM	6	CT HZ TO			60	VT HZ FROM			6	VT HZ TO	60
SER.NO											
	50C AT 1.0 SF										

AC Induction Motor Performance Data

Record # 55729

Typical performance - not guaranteed values

Winding: 35WGM760-R060				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	
NEMA Design Code		B		KVA Code		L	
Service Factor (S.F.)		1.15		No-load Current		17.9 A	
NEMA Nom. Eff.		84		Power Factor		85	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						43°C	
						Temp. Rise @ S.F. Load	
						51°C	
						Locked-rotor Power Factor	
						60	
						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	90	91	88
Efficiency	72.4	82	84.6	85	84.4	82.9	84.6
Speed	3574.8	3551.3	3525.8	3497.6	3466.3	3432.6	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





