



Customer information packet

M3160

.5HP, 865RPM, 3PH, 60HZ, 56, 3522M, OPEN, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA 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	2.400 A @ 230.0 V 1.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.2 a
Insulation Class	F

Part detail

Revision	F
Type	AC
Mech. spec.	35B011
Base	
Status	PRD/A
Elec. spec.	35WGG341
Layout	35LYB011
Eff. date	07-31-2024
CD Diagram	CD0005
Poles	08
Leads	9#18 Y
Proprietary	False
Created date	02-23-2023

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	12.07 IN
Power Factor	57
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	865 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

NP1256L									
CAT.NO.	M3160								
SPEC.	35B011G341G1								
HP	.5								
VOLTS	230/460								
AMP	2.4/1.2								
RPM	865								
FRAME	56		HZ	60		PH	3		
SER.F.	1.15	CODE	K	DES	B	CLASS	F		
NEMA-NOM-EFF	70	PF	57						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	OPEN	SN							
	SFA 2.52/1.26								

Accessories

Part number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

AC Induction Motor Performance Data

Record # 87787

Preliminary Data Sheet

Winding: 35WGG341-R002			Type: 3522M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		3.08 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		2.4/1.2	Breakdown Torque		10.33 LB-FT		
R.P.M.		865	Pull-up Torque		6.41 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		7.03 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		5.49 A
Service Factor (S.F.)		1.15	No-load Current		0.979 A		
NEMA Nom. Eff.		70	Power Factor	57	Line-line Res. @ 25°C		39.9 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		52°C
S.F. Amps					Temp. Rise @ S.F. Load		58°C
					Locked-rotor Power Factor		65
					Rotor inertia		0.159 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	25	37	47	56	64	69	61
Efficiency	49.7	63	68.5	70.9	70.7	69.7	70.8
Speed	893	884	876	866	853	839	858
Line amperes	0.986	1.02	1.1	1.19	1.3	1.46	1.26

ABB Motors and Mechanical Inc.

WINDING # 35WGG341

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 865 RPM 460 V 3522M

TORQUES (LB-FT): PO=10.33 PU=6.41 LR=7.03 LRA=5.49





