



Customer information packet

BM3112

.75HP, 1725RPM, 3PH, 60HZ, 56, 3420M, OPEN, F1

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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 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
Brake Torque	6.0 lb-ft
Current @ Voltage	3.600 A @ 208.0 V 3.200 A @ 208.0 V 3.000 A @ 230.0 V 1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	Z
Type	AC
Mech. spec.	34F039
Base	
Status	PRD/A
Elec. spec.	34WG0883
Layout	34LYF039
Eff. date	10-16-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

Front Face Code	Brake Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3420M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.77 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
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	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Vibration Sensor Indicator

No Vibration Sensor

Nameplate

NP1256L									
CAT.NO.	BM3112								
SPEC.	34F039-0883-C								
HP	.75								
VOLTS	208-230/460								
AMP	3.2-3/1.5								
RPM	1725								
FRAME	56		HZ	60		PH	3		
SER.F.	1.25	CODE	K	DES	B	CLASS	B		
NEMA-NOM-EFF	75.5	PF	60						
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	OPEN	SN							
	SFA 3.6-3.4/1.7								

AC Induction Motor Performance Data

Record # 50817

Typical performance - not guaranteed values

Winding: 34WG0883-R001			Type: 3420M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		2.25 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		3.2-3/1.5	Breakdown Torque		10 LB-FT		
R.P.M.		1725	Pull-up Torque		8.5 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		8.8 LB-FT		
NEMA Design Code		B	KVA Code	K	Starting Current	10 A	
Service Factor (S.F.)		1.25	No-load Current		1.2 A		
NEMA Nom. Eff.		75.5	Power Factor		60	Line-line Res. @ 25°C	17.68 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		
S.F. Amps		3.6-3.4/1.7	Temp. Rise @ S.F. Load				

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	42	55	64	71	76	71
Efficiency	56.1	69.7	74.7	76.2	76.1	75.2	76.1
Speed	1783	1766	1749	1731	1711	1693	1711
Line amperes	1.2	1.2	1.3	1.5	1.6	1.8	1.6

ABB Motors and Mechanical Inc.

WINDING # 34WG0883

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1725 RPM 460 V 3420M

TORQUES (LB-FT): PO=10 PU=8.5 LR=8.8 LRA=10





