



Customer information packet

BM3116

1HP, 1725RPM, 3PH, 60HZ, 56, BRAKE, 3424M, OPEN

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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 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	3.0 lb-ft
Current @ Voltage	3.700 A @ 208.0 V 3.400 A @ 230.0 V 1.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting

Part detail

Revision	U
Type	AC
Mech. spec.	34F039
Base	
Status	PRD/A
Elec. spec.	34WGW990
Layout	34LYF039
Eff. date	12-31-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 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	3424M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.64 IN
Power Factor	70
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 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.	BM3116								
SPEC.	34F039W990G1								
HP	1								
VOLTS	208-230/460								
AMP	3.7-3.4/1.7								
RPM	1725								
FRAME	56		HZ	60			PH	3	
SER.F.	1.15		CODE	K	DES	B	CLASS	B	
NEMA-NOM-EFF	78.5		PF	70					
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	OPEN		SN						

AC Induction Motor Performance Data

Record # 50818

Typical performance - not guaranteed values

Winding: 34WGW990-R002			Type: 3424M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		3.1 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		3.7-3.4/1.7	Breakdown Torque		11.8 LB-FT		
R.P.M.		1725	Pull-up Torque		8 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		10.5 LB-FT	
NEMA Design Code		B	KVA Code		K	Starting Current	11.4 A
Service Factor (S.F.)		1.15	No-load Current		1.1 A		
NEMA Nom. Eff.		78.5	Power Factor		70	Line-line Res. @ 25°C	13.4 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load			

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	51	63	72	77	81	75
Efficiency	59.6	72.6	77.3	79.1	79.3	78.6	79.2
Speed	1778	1760	1741	1721	1698	1673	1707
Line amperes	1.2	1.3	1.4	1.7	1.9	2.2	1.8

ABB Motors and Mechanical Inc.

WINDING # 34WGW990

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1725 RPM 460 V 3424M

TORQUES (LB-FT): PO=11.8 PU=8 LR=10.5 LRA=11.4





