



Product Information Packet

BM3538

.5HP,1725RPM,3PH,60HZ,56,BRAKE,3420M

Part Detail							
Revision:	AA	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	34WG0097	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	34K044	Layout:	34LYK044	Poles:	04	Created Date:	
Base:	RG	Eff. Date:	07-03-2018	Leads:	9#18		

Specs			
Catalog Number:	BM3538	Insulation Class:	B
Enclosure:	TENV	Inverter Code:	Not Inverter
Frame:	56	KVA Code:	K
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.500 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	208.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	460.0 V @ 60 HZ	Motor Type:	3420M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	69
Agency Approvals:	UR	Product Family:	General Purpose
	CSA	Product Type:	BRAKE MOTOR
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	.900 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	1.800 A @ 230.0 V	Shaft Rotation:	Reversible
	1.900 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	NONE (OLD)
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Brake Mounting	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP1256L

CAT.NO.	BM3538										
SPEC.	34K44-97-B										
HP	.5										
VOLTS	208-230/460										
AMP	1.9-1.8/.9										
RPM	1725										
FRAME	56				HZ		60			PH	3
SER.F.	1.00			CODE	K	DES		B	CLASS	B	
NEMA-NOM-EFF	75.5			PF	69						
RATING	40C AMB-CONT										
CC				USABLE AT 208V							1.9
DE	6203			ODE	6203						
ENCL	TENV		SN								

Parts List		
Part Number	Description	Quantity
SA008179	SA 34K44-97-B	1.000 EA
RA004626	RA 34K44-97-B	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 EA
34GS1029A01	GASKET, CONDUIT BOX	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
34EP3900T09	FR ENDPLATE, MACH	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
34EP3102A02SP	FR/PU ENDPLATE, MACH	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
HW2500A13	KEY, USA #605, WOODRUFF	1.000 EA
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 EA
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.014 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1185	LABEL,BRAKE CONNECTION (ON ROLLS)	1.000 EA
WD4006C05	ORANGE, WIRENUT, G-B #13-003 ORG SIZE 73B	3.000 EA
HA3100A44	THRUBOLT 10-32 X 8.000	4.000 EA
48BK6101BP-	1-048-161-01-BP- BRAKE	1.000 EA
18XN2520A12	1/4-20 X 3/4",FL HD SL ZN	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 EA
27PA1001	PKG GRP, PRINT PK1027A06	1.000 EA

AC Induction Motor Performance Data

Record # 6542 - Typical performance - not guaranteed values

Winding: 34WG0097-R001	Type: 3420M	Enclosure: TENV
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.5 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	1.9-1.8/.9			Breakdown Torque	6.8 LB-FT
R.P.M.	1725			Pull-up Torque	4.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.8 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	7 A
Service Factor (S.F.)	1			No-load Current	0.54 A
NEMA Nom. Eff.	75.5	Power Factor	69	Line-line Res. @ 25°C	27.56 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	57°C

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	38	53	65	71	75	81
Efficiency	55	69	74	78	75.5	74.4
Speed	1787	1774	1760	1749	1728	1717
Line amperes	0.6	0.65	0.74	0.84	1	1.1

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values

BALDOR ELECTRIC COMPANY

WINDING # 34WG0097

Typical performance - not guaranteed values.

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

TORQUES(LB-FT): PO=6.8 PU=4.6 LR=5.8 LRA=7





