

ABB BALDOR RELIANCE III

Customer information packet

EBM3707Y-DI

5HP, 1750RPM, 3PH, 60HZ, 215, 3644M, TEFC, F1, B

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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	14.200 A @ 208.0 V 6.900 A @ 460.0 V 13.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting
Front Shaft Indicator	None

Part Detail

Revision	H
Type	AC
Mech. spec.	36Q910
Base	
Status	PRD/A
Elec. spec.	36WGR639
Layout	36LYQ910
Eff. date	05-10-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-29-2016

Heater Indicator	No Heater
High Voltage Full Load Amps	6.9 a
Insulation Class	F
Inverter Code	Inverter Ready
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 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3644M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.84 IN
Power Factor	76
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP1259L											
CAT.NO.	EBM3707Y-DI										
SPEC.	36Q910R639G1										
HP	5										
VOLTS	230/460										
AMP	13.8/6.9										
RPM	1750										
FRAME	215		HZ	60				PH	3		
SER.F.	1.15	CODE	K	DES	A	CL	F				
NEMA-NOM-EFF	89.5	PF	76								
RATING	40C AMB-CONT										
CC	010A										
DE	6206		ODE	6205							
ENCL	TEFC	SN									

Parts List

Part number	Description	Quantity
SA328343	SA 36Q910R639G1	1.000 ea
RA316271	RA 36Q910R639G1	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
36CB3004A31	36 CB 1.38 @ 6	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
36EP3306A04	FR ENDPLATE, MACH .281 FOR T-BOLT, W/O T	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3100A02	PU ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA3101A58	THRUBOLT 1/4-20 X 12.875 TDR #45540	4.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
HW2500A16	KEY USA #606, WOODRUFF	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH4009A05SP	IEC FH,GREASER & 1.38 SHAFT HOLE,W/	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
HW2501D08	KEY, 3/16 SQ X .875 AUTO	1.000 ea
84XN3816J36	3/8-16X2-1/4 SOCK HD, BK OX	4.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E18	KEY, 1/4 SQ X 2.000	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
36FN3000A02SP	EXFN, PLASTIC, 7.00 OD, 1.175 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga
96BK0615	BRAKE-25 LB/FT,230/460,180/390,60/50HZ	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1259L	ALUM SUPER-E UL CC NEMA PREMIUM A60	1.000 ea

37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

ABB Motors and Mechanical Inc.

WINDING # 36WGR639

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3644M

TORQUES (LB-FT): PO=57 PU=34.6 LR=38.3 LRA=53.8





