

ABB BALDOR RELIANCE III

Customer information packet

EJMM3158T-G

3HP, 3450RPM, 3PH, 60HZ, 145JM, 3530M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	145JM
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	7.600 A @ 230.0 V 8.000 A @ 208.0 V 3.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	U
Type	AC
Mech. spec.	35Z957
Base	
Status	PRD/A
Elec. spec.	35WGP988
Layout	35LYZ957
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	11-23-2011

Heater Indicator	No Heater
High Voltage Full Load Amps	3.8 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3530M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.13 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 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

NP3553LUA									
CAT.NO.	EJMM3158T-G								
SPEC.	35Z957P988G1								
HP	3								
VOLTS	230/460								
AMPS	7.6/3.8								
RPM	3450								
FRAME	145JM		HZ	60		PH	3		
SF	1.15	CODE	K	DES	B	CLASS	H		
NEMA NOM. EFF	85.5	PF	87						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SN							
DE	6206		ODE	6203					
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 3HP 190/380V 9/4.5A						SF1.0		

Parts List

Part number	Description	Quantity
SA235112	SA 35Z957P988G1	1.000 ea
RA222075	RA 35Z957P988G1	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	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
35EP3209A00	MASTER ODE,203 BRG,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA1100A03	SCREEN, RODENT	1.000 ea
51XT1032A04	10-32X1/4 HX WA SL SR TYT (F/S)	4.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3401A03	PU ENDPLATE -OPEN W/SCREENS & GREASER W/	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA1102A08	RODENT SCREEN 35 OPEN FACE MTD	1.000 ea
51XT1032A04	10-32X1/4 HX WA SL SR TYT (F/S)	4.000 ea
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HA1005A02	SLINGER, OD 2.00, ID 1.14, 206 BRG,	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1459	AEGIS SGR LABEL "AEGISLBL-100"	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.017 ga
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS TDR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

NP3553LUA	ALUM SUPER-E VPWM INV READY UL CC NEMA P	1.000 ea
G7PA1000	PKG GRP, PRINT PK1034A07	1.000 ea
FE-0000004	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 36078

Typical performance - not guaranteed values

Winding: 35WGP988-R005			Type: 3530M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		4.515 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		7.6/3.8	Breakdown Torque		18.1 LB-FT		
R.P.M.		3450	Pull-up Torque		11.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		15.1 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		32.5 A
Service Factor (S.F.)		1.15		No-load Current		1.55 A	
NEMA Nom. Eff.		85.5	Power Factor	87	Line-line Res. @ 25°C		5.8893 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		33°C	
S.F. Amps				Temp. Rise @ S.F. Load		40°C	
				Locked-rotor Power Factor		58	
				Rotor inertia		0.0822 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	82	87	90	91	89
Efficiency	76.1	84.3	86	85.8	84.7	83	85.1
Speed	3569.1	3541.6	3510.6	3478.3	3442.7	3400.2	3457
Line amperes	1.77	2.29	2.97	3.73	4.58	5.53	4.24

ABB Motors and Mechanical Inc.

WINDING # 35WGP988

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3530M

TORQUES (LB-FT): PO=18.1 PU=11.3 LR=15.1 LRA=32.5





