

ABB BALDOR RELIANCE III

Customer information packet

EJMM3212T

5HP, 3455RPM, 3PH, 60HZ, 182JM, 3620M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	182JM
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM
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	12.200 A @ 230.0 V 13.500 A @ 208.0 V 6.080 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.1 a

Part Detail

Revision	A
Type	AC
Mech. spec.	36G687
Base	
Status	PRD/A
Elec. spec.	36WGZ652
Layout	36LYG687
Eff. date	01-07-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	11-06-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3620M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.12 IN
Power Factor	91
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3455 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.	EJMM3212T								
SPEC.	36G687Z652								
HP	5								
VOLTS	230/460								
AMPS	12.2/6.08								
RPM	3455								
FRAME	182JM		HZ	60		PH	3		
SF	1.15	CODE	J	DES	A	CLASS	F		
NEMA NOM. EFF	86.5	PF	91						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SN							
DE	6207		ODE	6205					
VPWM INVERTER READY		SFA 14/7							
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 5HP 190/380V 15.2/7.6A						SF1.0		

Parts List

Part number	Description	Quantity
SA443019	SA 36G687Z652	1.000 ea
RA435515	RA 36G687Z652	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
51XB1016A07	10-16 X 7/16 HWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP3204D00	MASTER ODE,205 BRG,GRSR,RLF	1.000 ea
HA1103A08	RODENT SCREEN, 36 FRAME, OPEN, FRONT END	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3405A04	PUEP 182-4C OPEN 207 BRG W/ TSLV, GRSSR	1.000 ea
HA1102A07	RODENT SCREEN 36 OPEN FACE	2.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HA1005A07	SLINGER, OD 2.25, ID 1.344, 307 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
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
HA3101A23	THRUBOLT 1/4-20 X 9.625 DEMBY	4.000 ea
36AD2004A01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA	2.000 ea

LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	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
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000004	ZRTG FE ASSEMBLY	1.000 ea
PE-0000004	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 115762

Typical performance - not guaranteed values

Winding: 36WGZ652-R001				Type: 3620M		Enclosure: OPSB			
Nameplate Data				460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		5		Full Load Torque		7.649 LB-FT			
Volts		230/460		Start Configuration		direct on line			
Full Load Amps		12.2/6.08		Breakdown Torque		26.8 LB-FT			
R.P.M.		3455		Pull-up Torque		17.6 LB-FT			
Hz		60 Phase		3		Locked-rotor Torque		18.8 LB-FT	
NEMA Design Code		A		KVA Code		J		Starting Current	42.5 A
Service Factor (S.F.)		1.15		No-load Current		2.16 A			
NEMA Nom. Eff.		86.5		Power Factor		91		Line-line Res. @ 25°C	3.971 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		43°C			
S.F. Amps		14/7		Temp. Rise @ S.F. Load		55°C			
				Locked-rotor Power Factor		54.7			

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	77	86	90	92	92	91
Efficiency	84.9	89	88.8	87.2	85	82.1	85.9
Speed	3568.5	3534.9	3496.5	3454.7	3406.5	3355.9	3426
Line amperes	2.55	3.45	4.64	6.01	7.57	9.29	6.95

ABB Motors and Mechanical Inc.

WINDING # 36WGZ652

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3455 RPM 460 V 3620M

TORQUES (LB-FT): PO=26.8 PU=17.6 LR=18.8 LRA=42.5





