

ABB BALDOR RELIANCE III

Customer information packet

EWCM3212T

5HP, 3450RPM, 3PH, 60HZ, 182TCZ, 3622M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	182TCZ
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	NEMA PREMIUM CURUSEEV
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	12.000 A @ 230.0 V 12.800 A @ 208.0 V 6.000 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	K
Type	AC
Mech. spec.	36J678
Base	
Status	PRD/A
Elec. spec.	36WGS040
Layout	36LYJ678
Eff. date	01-07-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	05-28-2015

High Voltage Full Load Amps	6.0 a
Insulation Class	F
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 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3622M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.32 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 Extension Location	Pulley End
Shaft Ground Indicator	No 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

NP1259L									
CAT.NO.	EWCM3212T								
SPEC.	36J678S040G1								
HP	5								
VOLTS	230/460								
AMP	12/6								
RPM	3450								
FRAME	182TCZ		HZ	60			PH	3	
SER.F.	1.15		CODE	K	DES	A	CL	F	
NEMA-NOM-EFF	86.5		PF	91					
RATING	40C AMB-CONT								
CC	010A								
DE	6207		ODE	6205					
ENCL	OPSB		SN						

Parts List

Part number	Description	Quantity
SA302308	SA 36J678S040G1	1.000 ea
RA289402	RA 36J678S040G1	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	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	2.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	2.000 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
36EP1206A24	PU ENDPLATE, MACH	1.000 ea
HA1102A09	RODENT SCREEN 36 OPEN FAC	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
10XN2520A26	1/4-20X 1 5/8 HEX HD	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
HA2009A01	ALUM SLINGER 307 BRG CLOSE CPL PUMP MOTO	1.000 ea
80XN1032J06	10-32 X 3/8 SET SCREW, HEX SOC, CUP PT	1.000 ea
HW2501D20	KEY, 3/16 SQ X 2.250	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
36AD2004A01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA	2.000 ea
HA3101A23	THRUBOLT 1/4-20 X 9.625 DEMBY	4.000 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
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
G0PA1000	PKG GRP, PRINT PK1026A06	1.000 ea
PK3085X	FOAM SHAFT SUPPORT PRECUT 4-1/4 X 6-3/4	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000004	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 53354

Typical performance - not guaranteed values

Winding: 36WGS040-R014			Type: 3622M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		7.66 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		12/6	Breakdown Torque		29.99 LB-FT		
R.P.M.		3450	Pull-up Torque		17.89 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		22.24 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		49.63 A
Service Factor (S.F.)		1.15	No-load Current		1.99 A		
NEMA Nom. Eff.		86.5	Power Factor	91	Line-line Res. @ 25°C		3.07 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		34°C
S.F. Amps					Temp. Rise @ S.F. Load		42°C
					Locked-rotor Power Factor		49.2
					Rotor inertia		0.0988 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	79	87	90	92	93	92
Efficiency	81.4	86.5	87.6	86.6	85.3	83.5	86.1
Speed	3566	3535	3503	3465	3423	3379	3445
Line amperes	2.5	3.49	4.68	6.06	7.56	9.15	6.91

ABB Motors and Mechanical Inc.

WINDING # 36WGS040

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3450 RPM 460 V 3622M

TORQUES (LB-FT) : PO=29.99 PU=17.89 LR=22.24 LRA=49.63



