

ABB BALDOR RELIANCE III

Customer information packet

FSWDM3615T-E

5HP, 1750RPM, 3PH, 60HZ, 184T, 3646M, TEFC, F1

Part Detail

Revision	J
Type	AC
Mech. spec.	36R625
Base	
Status	PRD/A
Elec. spec.	36WGS953
Layout	36LYR625
Eff. date	10-06-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-26-2018

Nameplate

NP4427AAA01															
CAT #	FSWDM3615T-E					WT	101	LBS							
SPEC	36R625S953G1					ENCL	TEFC								
SER #						CC	010A	IP	69						
HP	5					MAG CUR	5.8/2.9								
VOLTS	230/460									NEMA NOM. EFF	89.5				
AMPS	13/6.5									PF	81				
RATING	40C AMB-CONT														
RPM	1750									MAX RPM	2700				
FRAME	184T	HZ	60			CODE	J	CLASS		H					
SER.F.	1.15	SF AMP	14.8/7.4						PH	3	DES	B			
DE	6206				ODE	6206									
LUBRICATION	POLYREX EM														
ID LOGO	INVERTER TYPE				VPWM		CHP	60	TO		90	1.5:1			
ID LOGO	WK2	0.428	CT	15	TO		60	4:1							
ID LOGO	SL HZ	1.7	VT	6	TO		60	10:1							
							QR								
YR															

Parts List

Part number	Description	Quantity
SA361143	SA 36R625S953G1	1.000 ea
RA350314	RA 36R625S953G1	1.000 ea
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
35CB1017A02	5/36 MID SECT - 3 PC. CONDUIT BOX 3/4 N	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
HA3424S48	STUD - M6X1.0 THDS X 3.00"	1.000 ea
11XW1032G08	10-32 X .50, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP1920A02	FREP TEFC 206 BRG WD11/12 (STAINLESS)	1.000 ea
RM1070A42	O-RING,(#70-7.239) FLOUROELASTOMER COMPO	1.000 ea
HW4600G02	30 X 47 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW4600F25	30 X 48 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
36EP1920A04	PUEP TEFC 206 BRG WD11/12 (STAINLESS)	1.000 ea
RM1070A42	O-RING,(#70-7.239) FLOUROELASTOMER COMPO	1.000 ea
HW4600G02	30 X 47 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW4600F25	30 X 48 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 ea
RM1070A14	O-RING, -010 VITON/FKM .070CS X .239ID	4.000 ea
11XB1214S16	12-14X1.00 HXWSSLD TYP B STAINLESS	1.000 ea
36FH4007	FAN COVER #304 STAINLESS W/OUT GREASER	1.000 ea
10XN1032FS06	HEX HD CAP SCREW 10-32 X 3/8 SS FOOD SAF	3.000 ea
35CB1513A01	35-36-37 MACH. LID - 3 PC. CONDUIT BOX	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
HW2502E16	#303 SS,SQ KEY 1/4 X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.005 qt
MJ5004A93	FOOD GRADE (H1 RATED) ANTISEIZE THRD COM	0.005 ea
HA1025A21	WSHR,FELT .125" THK	1.000 ea
HA5027A09	DRAIN KIT,(2)HA4002A03 BAGGED W/LABEL	1.000 ea

MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
WD5603A01	KIT, CLOSED-END LEAD SPLICE (18-14GA)	1.000 ea
HA3101FS55	THRUBOLT, 1/4-20 X 13.250 SS FOOD SAFE	4.000 ea
GOPA1000	PKG GRP, PRINT PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000016	ZTRG FE ASSEMBLY	1.000 ea
PE-0000010	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 57384

Typical performance - not guaranteed values

Winding: 36WGS953-R006			Type: 3646M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		15.03 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		13/6.5	Breakdown Torque		57.4 LB-FT		
R.P.M.		1750	Pull-up Torque		28.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		32.3 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		47.9 A
Service Factor (S.F.)		1.15	No-load Current		2.91 A		
NEMA Nom. Eff.		89.5	Power Factor	81	Line-line Res. @ 25°C		2.34 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		75°C
S.F. Amps					Temp. Rise @ S.F. Load		91°C
					Locked-rotor Power Factor		39
					Rotor inertia		0.428 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	90	83	84	86
Efficiency	86.7	90.5	90.8	89.3	88.4	86.6	88.8
Speed	1788	1776	1763	1748	1732	1714	1738
Line amperes	3.27	4.1	5.2	6.53	8.02	9.69	7.42

ABB Motors and Mechanical Inc.

WINDING # 36WGS953

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3646M

TORQUES (LB-FT) : PO=57.4 PU=28.9 LR=32.3 LRA=47.9





