

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM3615T

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
Frame Material	Stainless 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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
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	13.000 A @ 230.0 V 6.500 A @ 460.0 V
Design Code	B
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	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	AB
Type	AC
Mech. spec.	36L738
Base	
Status	PRD/A
Elec. spec.	36WGS719
Layout	36LYL738
Eff. date	11-24-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	04-13-2011

KVA Code	J
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	3646M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.32 IN
Power Factor	81
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
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

NP1953B01											
CAT.NO.	CESSWDM3615T										
SPEC.	36L738S719G1										
HP	5										
VOLTS	230/460										
AMP	13/6.5										
RPM	1750										
FRAME	184TC			HZ		60		PH		3	
SER.F.	1.15		CODE		J	DES		B	CLASS		F
NEMA-NOM-EFF	89.5			PF		81					
RATING	40C AMB-CONT										
CC	010A			USABLE AT 208V					N/A		
DE	6206			ODE		6205					
ENCL	TEFC		SN								
	4:1CT 20:1VT										

Parts List

Part number	Description	Quantity
SA221365	SA 36L738S719G1	1.000 ea
RA208503	RA 36L738S719G1	1.000 ea
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
36CB1003A01	CONDUIT BOX	1.000 ea
51XN1032A08	10-32 X 0.500 HX WS SL SR ZN	2.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
36EP1907A01	FRONT TEFC 205 BRG NO GRSR S/P 9-2 (STAI	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP1908A03	PUEP, FOR LOCKED 6206 BRG	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
10XN2520S28	1/4-20X 1 3/4 HEX HD SS X	4.000 ea
HA1049A02	DUBO LOK WASHER SIZE 1/4 (NYLON LOCK SEA	4.000 ea
HA1049A02	DUBO LOK WASHER SIZE 1/4 (NYLON LOCK SEA	4.000 ea
36FH4011	WASHDOWN FAN COVER #304 STAINLESS W/NOTC	1.000 ea
10XN1032S06	HEX HD CAP SCREW, SS	3.000 ea
36CB4517	LIPPED CB LID #304 STAINLESS - CLEANED	1.000 ea
37GS3010SP	1/16"WHITE LID GASKET	1.000 ea
59XN0832S07	8/32 X 7/16 HX WS HD SER X	4.000 ea
HW4606A03	JM CLIPPER/SEAL (LWE-1156-1875-AL44)	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
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
HA3101S29	THRUBOLT- 1/4-20X13.00 SS	4.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
36GS1024	36 MOLDED GASKET W/LIP, 1.12 LEAD HOLE,	1.000 ea
HW3200S01	EYEBOLT 3/8-16 X3/4 S.S. TDR #35988	1.000 ea
FE-0000007	ZRTG FE ASSEMBLY	1.000 ea
PE-0000012	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 36851

Typical performance - not guaranteed values

Winding: 36WGS719-R001			Type: 3646M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		5	Full Load Torque		15 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		13/6.5	Breakdown Torque		49.7 LB-FT			
R.P.M.		1750	Pull-up Torque		27.7 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		32.3 LB-FT		
NEMA Design Code		B	KVA Code	J	Starting Current		48.3 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		2.3457 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		87°C		
S.F. Amps				Temp. Rise @ S.F. Load		109°C		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	81	83	84	82
Efficiency	86.3	90.3	90.6	89.8	88.4	86.5	89
Speed	1788.5	1776.4	1763.2	1748.5	1732.5	1714.2	1739
Line amperes	3.26	4.07	5.17	6.44	7.96	9.65	7.35

ABB Motors and Mechanical Inc.

WINDING # 36WGS719

Typical performance - not guaranteed values.

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

TORQUES (LB-FT) : PO=49.7 PU=27.7 LR=32.3 LRA=48.3





