

ABB BALDOR RELIANCE III

Customer information packet

ECS101T3K5P5FD4

5.5KW, 1500RPM, 3PH, 50HZ, D132D, 3730B, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	D132D
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Brushless Wound Field PM Rotor
Output @ Frequency	5.500 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
Agency Approvals	CE WEEE CULUS
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	5
Current @ Voltage	12.000 A @ 380.0 V
Drip Cover	No Drip Cover
Duty Rating	S1
Efficiency @ 100% Load	92.9 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Heater Indicator	No Heater
High Voltage Full Load Amps	12.0 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGA0020
Layout	37LYQ506
Eff. date	07-09-2024
CD Diagram	CD0006B03
Poles	04
Leads	3#12 19" LONG LEADS
Proprietary	False
Created date	05-25-2022

Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	3730B
Mounting Arrangement	V1
Number of Poles	4
Overall Length	17.87 IN
Power Factor	97
Product Family	General Purpose
Pulley Face Code	D-Flange
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.497 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1500 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

NP3978A01						
PART NO.	ECIN4A12P0					
U1	400	PH	3	HZ	50	
I1	11.1	W/EXT. CHOKE				9.7
SERIAL #						

NP3968B01A01

CAT.NO.	ECS101T3K5P5FD4									
SPEC.	37-0000-0475				YR					
FRAME	D132D		IP		55	WT.		67		
KW	5.5	HZ		50	PH		3	DUTY-IPM		S1
INS CL	F	CLASS RISE				F	AMB-C		40	
EFF. CL	IE5	EFF		92.9		COSØ		97		
VOLTS	380			FLA		12.24				
1/MIN	1500				1/MIN MAX			3000		
BEMF (V)	188			RS (OHMS)				1.39		
LD (MH)	28.09				LQ (MH)				80.586	
VPWM	CP =		50	TO		100				
CT	5	TO		50	VT		1	TO		100
MATCHED INV	ECIN4A12P0									
DE	6208			ODE		6206				
SERIAL #										

Volts	380	Max RPM	3000	Conn Diag.	CD0006B03	Leads	3
Amps	10.71	Max Amps		Cs Diagram	CS1126	BEMF	180.48
KW	5.5	VFD#	ECIN4A12P0			LD	28.09
RPM	1500	S.F.	1.00			LQ	80.586
Phase/Hz	3/50	Rating	40C AMB-S1			Rs	1.4059 Meas. L-L

60034-2-3 Motor Performance at Standardized Operating Points

	RPM	% Speed	LB-FT	% Torque	KW	Efficiency	Loss (% FL)	Watts Loss (W)
P1	1351	90%	25.8	100%	6.6	91.2	8.59%	478
P2	750	50%	25.8	100%	3.7	86.8	7.52%	418
P3	363	25%	25.8	100%	1.8	80.6	5.78%	321
P4	1351	90%	12.9	50%	3.3	91.0	4.42%	246
P5	751	50%	12.9	50%	1.8	89.5	2.91%	162
P6	751	50%	6.5	25%	0.9	88.0	1.70%	94
P7	360	25%	6.5	25%	0.4	83.0	1.22%	68

61800-9-2 PDS Performance at Reference Operating Points

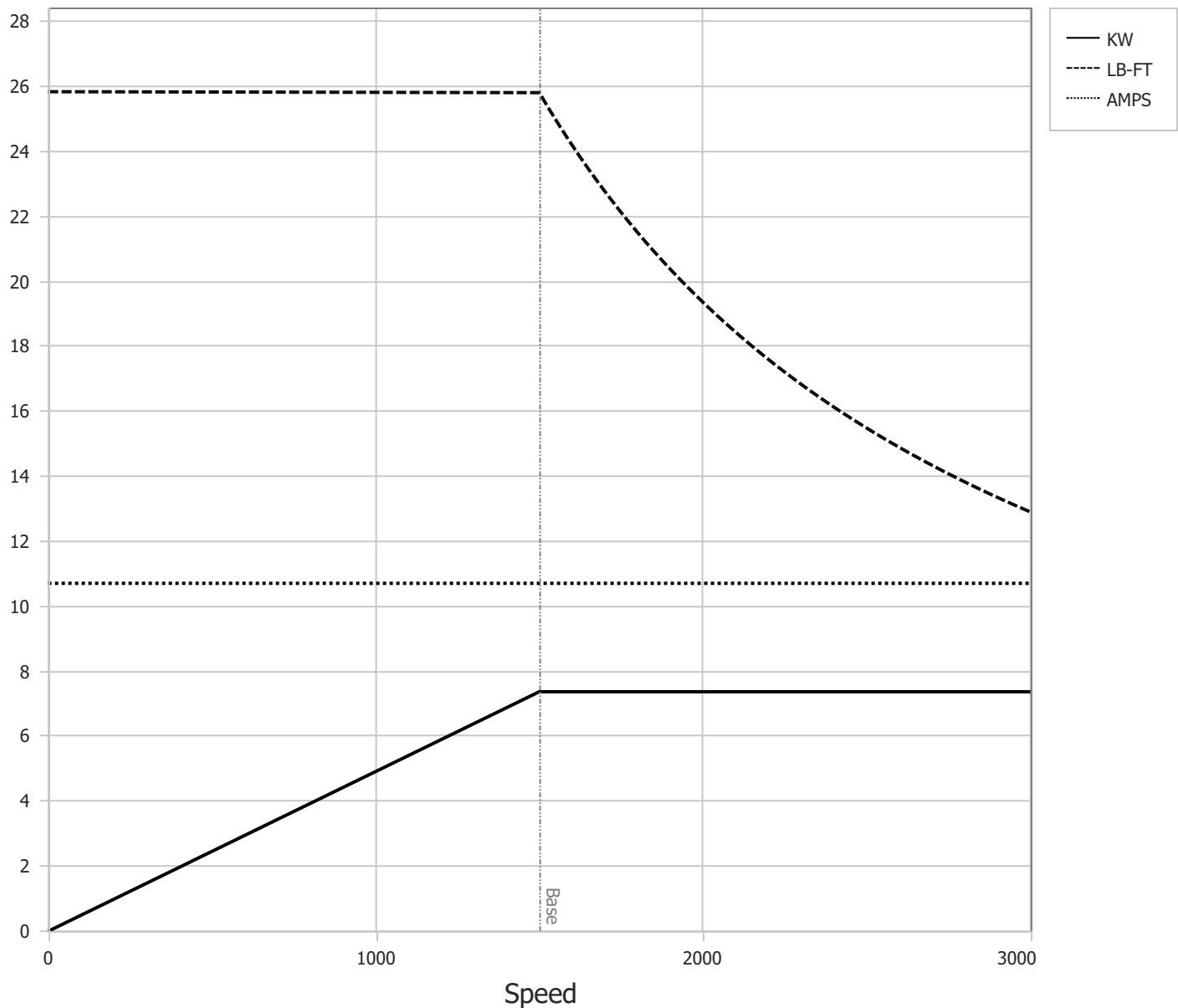
	RPM	% Speed	LB-FT	% Torque	KW	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1501	100%	25.8	100%	7.4	91.1	9.70%	540
P2	750	50%	25.8	100%	3.7	84.7	8.94%	497
P3	255	17%	25.8	100%	1.3	71.4	6.72%	374
P4	1501	100%	12.9	50%	3.7	90.7	5.07%	282
P5	751	50%	12.9	50%	1.8	87.8	3.45%	192
P6	255	17%	12.9	50%	0.6	75.7	2.69%	150
P7	751	50%	6.5	25%	0.9	86.8	1.88%	105
P8	255	17%	6.4	25%	0.3	75.8	1.34%	75

Points not taken in certified order.

	DR By:	<u>R & D</u>	AC MOTOR PERFORMANCE CURVES	37WGA0020 37-0000-0494 Test - 112062
	CK By:	<u>USWEALE1</u>		
	APP By:			
	Date:	<u>03/14/2025</u>		

Volts	380	Max RPM	3000	Conn Diag.	CD0006B03	Leads	3
Amps	10.71	Max Amps		Cs Diagram	CS1126	BEMF	180.48
KW	5.5	VFD #	ECIN4A12P0			LD	28.09
RPM	1500	S.F.	1.00			LQ	80.586
Phase/Hz	3/50	Rating	40C AMB-S1			Rs	1.4059 Meas L-L

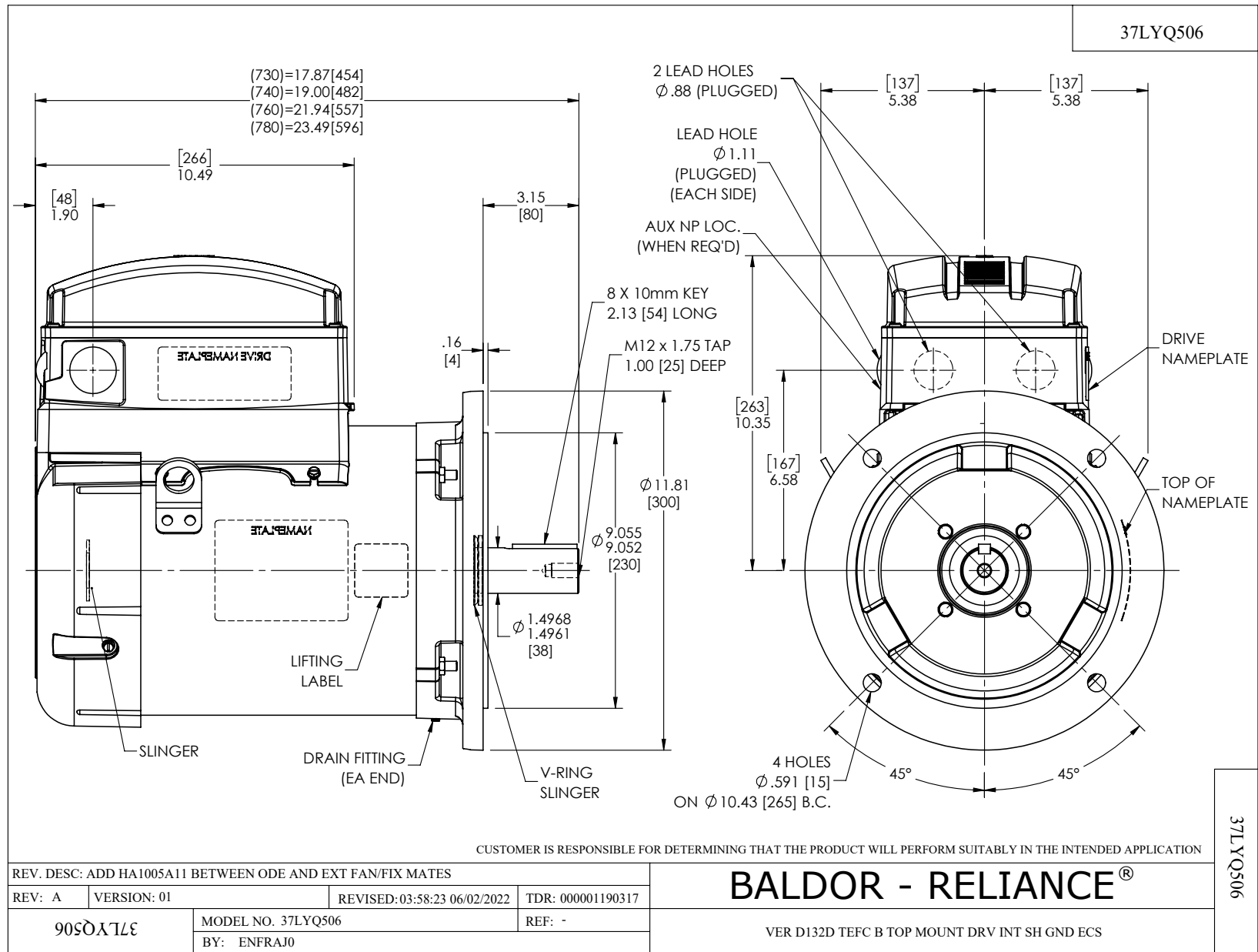
Constant Duty Operating Range


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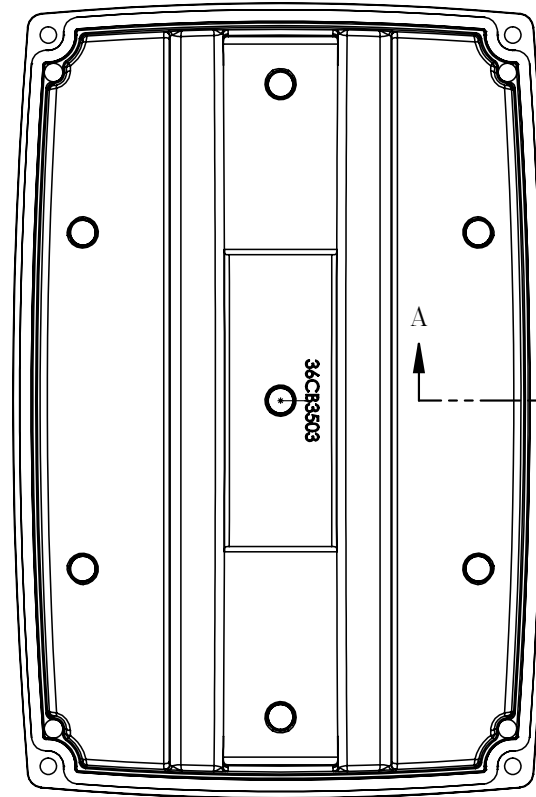
DR By: R & D
 CK By: USWEALE1
 APP By:
 Date: 03/14/2025

**AC MOTOR
PERFORMANCE
CURVES**

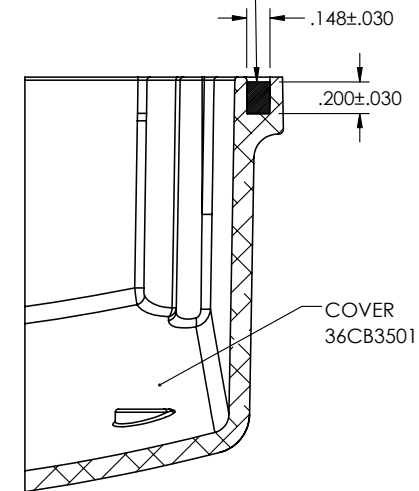
37WGA0020
 37-0000-0494
 Test - 112062



36CB3503A00



MATERIAL: RAMPF, RAKU-PUR 32-3280-51L



SECTION A-A

36CB3503A00

REV. DESC: NEW

REV: -

VERSION: 00

REVISED: 09:13:16 01/15/2020

TDR: 000001129989



MODEL NO. 36CB3503A00

REF: -

BY: ENMARS0

Material: -

BALDOR - RELIANCE®

36 & 37 FRAME TOP ECM ALUMINUM COVER WITH FOAM SEAL

