



Customer information packet

ECS100A2H3EB4

3HP, 1800RPM, 3PH, 60HZ, 182TC, TEFC, AXIAL

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182TC
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UL WEEE
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	6
Current @ Voltage	7.300 A @ 230.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.8 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	7.3 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
Lifting Lugs	Standard Lifting Lugs

Part detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGA0023
Layout	36LYT292
Eff. date	05-08-2024
CD Diagram	CD0006B03
Poles	04
Leads	3#14 15" LONG LEADS
Proprietary	False
Created date	08-31-2020

Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3624B
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.25 IN
Power Factor	97
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1800 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

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EC-Titanium™

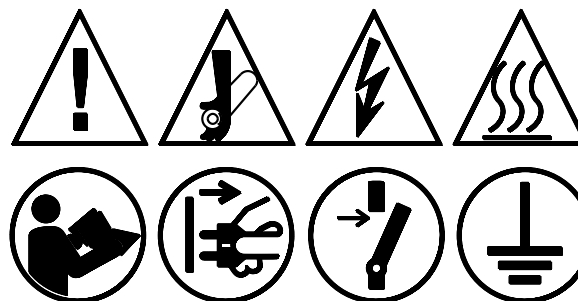
CAT. NO.	ECS100A2H3EB4										
SPEC.	36-0001560								YR	***	
FRAME	182TC				ENCL.		TEFC		IP	54	
HP	3		RATING		40C AMB-CONT						
NOM. EFF.	92.8			PF		97		SF		1.0	
VOLTS	230					FLA		7.3			
RPM	1800				RPM MAX			4000			
HZ	60				PH.		3		CLASS F		
BEMF (V)	106				Rs (Ω)			0.97			
Ld (mH)	14.4				Lq (mH)			54.4			
INV TYP	VPWM		CHP		60		TO 133		HZ		
	CT	6				TO 60 HZ		VT	1		TO 133 HZ
MATCHED INV	EC12A10P5										
BEARING	DE	6206				ODE		6205			
SERIAL#	***										



ELECTRONICALLY PROTECTED MOTOR
FOR INDUSTRIAL USE

ABB MOTORS AND MECHANICAL INC.
5711 R.S. BOREHAM JR. ST., FORT SMITH, AR. MFG IN U.S.A.

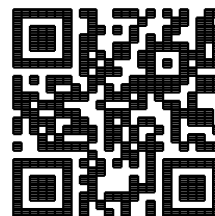
FERRITE ASSISTED
SYNCHRONOUS RELUCTANCE MOTOR
FOR INVERTER USE ONLY



PERMANENT MAGNET MOTOR. WHEN SHAFT IS
ROTATED, VOLTAGE WILL BE GENERATED AT
THE MOTOR TERMINALS.

MOTEUR À AIMANT PERMANENT. LORSQUE
L'ARBRE TOURNE, UNE TENSION SERA
GÉNÉRÉE AUX BORNES DU MOTEUR.

BALDOR-RELIANCE
SHAFT GROUNDING BRUSH INSTALLED



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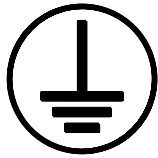
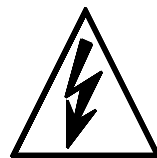
PART NO. EC12A10P5

U1 240 PH 3 HZ 60

I1 MAX 9.3 W /EXT. CHOKE 7.8

SERIAL # ***

ABB MOTORS AND MECHANICAL
INC. FORT SMITH, AR.
MFG. IN U.S.A.



POWER DOWN FOR
5 MINUTES BEFORE
REMOVING COVER

METTRE HORS TENSION
PENDANT 5 MINUTES
AVANT DE RETIRER LE
COUVERCLE

Volts	208-230	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	7.4-7.3	Max Amps		Cs Diagram	CS1127	BEMF	106
HP	3	VFD#	ECIN2A10P5			LD	14.4
RPM	1800	S.F.	1.00			LQ	54.4
Phase/Hz	3/60	Rating	40C AMB-CONT			Rs	1.0504
						Meas.	L-L

60034-2-3 Motor Performance at Standardized Operating Points

	RPM	% Speed	LB-FT	% Torque	HP	Efficiency	Loss (% FL)	Watts Loss (W)
P1	1629	90%	8.8	100%	2.7	92.0	7.86%	178
P2	904	50%	8.8	100%	1.5	90.1	5.50%	125
P3	452	25%	8.8	100%	0.8	84.6	4.51%	102
P4	1628	90%	4.4	50%	1.4	92.3	3.75%	85
P5	905	50%	4.4	50%	0.8	90.7	2.54%	58
P6	905	50%	2.2	25%	0.4	89.2	1.51%	34
P7	452	25%	2.2	25%	0.2	86.7	0.96%	22

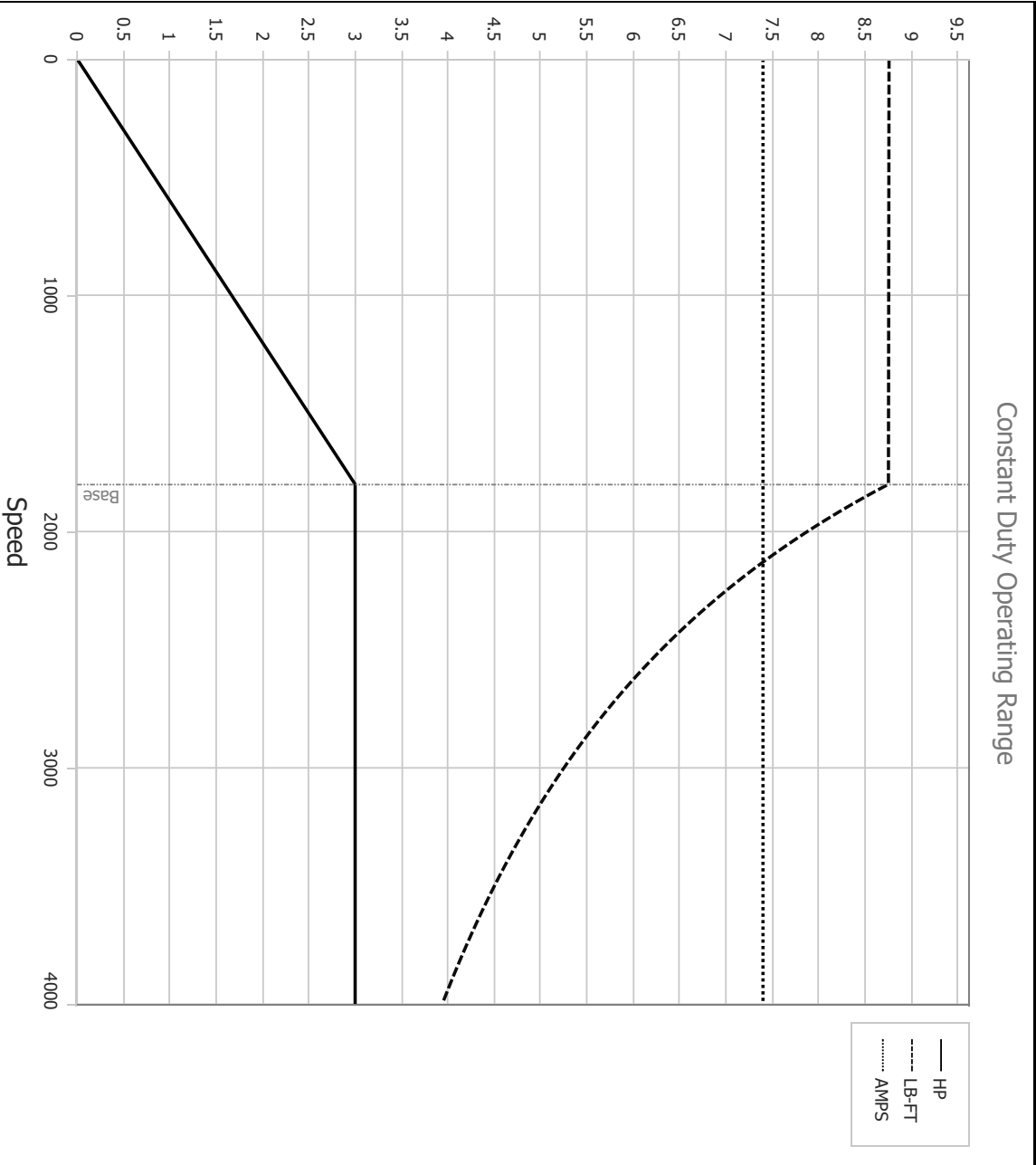
61800-9-2 PDS Performance at Reference Operating Points

	RPM	% Speed	LB-FT	% Torque	HP	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1810	100%	8.8	100%	3.0	90.3	10.73%	243
P2	904	50%	8.8	100%	1.5	84.5	9.12%	206
P3	301	17%	8.8	100%	0.5	68.5	7.60%	172
P4	1808	100%	4.4	50%	1.5	88.7	6.33%	143
P5	905	50%	4.4	50%	0.8	84.5	4.54%	103
P6	301	17%	4.4	50%	0.3	69.6	3.61%	82
P7	905	50%	2.2	25%	0.4	81.7	2.79%	63
P8	301	17%	2.2	25%	0.1	66.9	2.04%	46

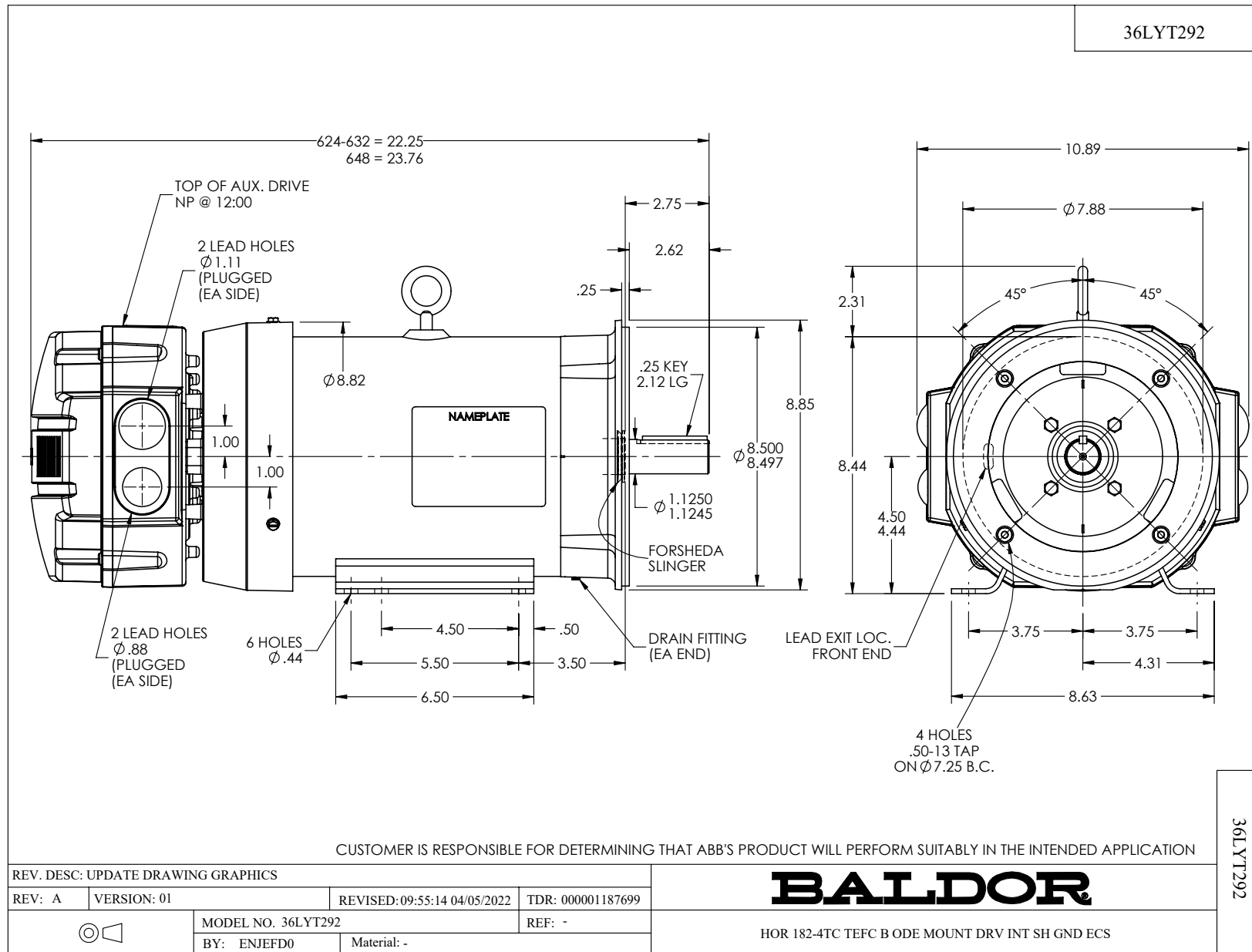
Points not taken in certified order.

BALDOR • RELIANCE	DR By: <u>R & D</u> CK By: <u>USBIBAK</u> APP By: <u>USWEQUA1</u> Date: <u>01/28/2025</u>	AC MOTOR PERFORMANCE CURVES	36WGA0023 36-0000-0620 Test - 111850
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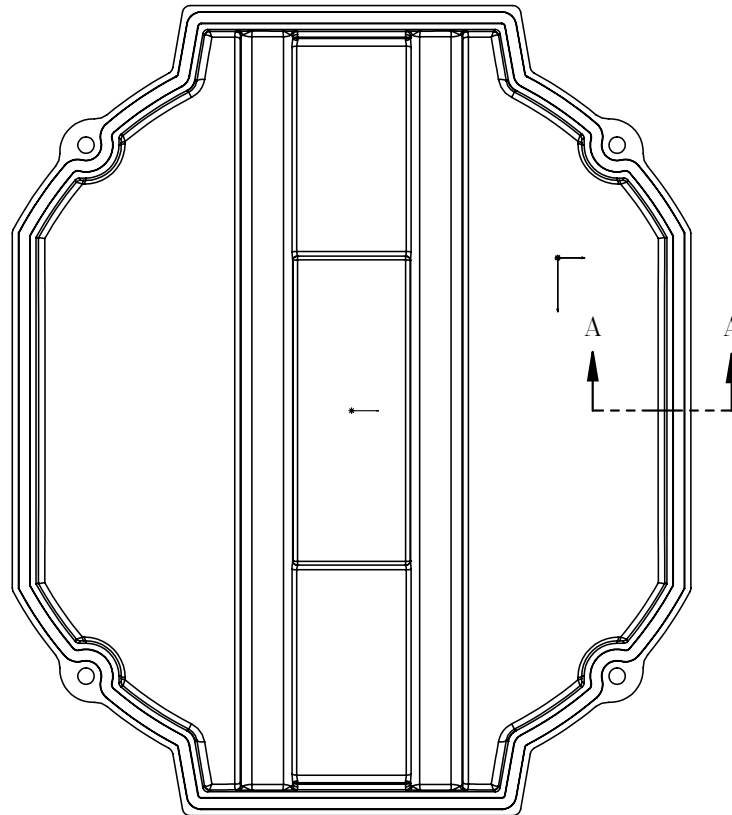
Volts	208-230	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	7.4-7.3	Max Amps		Cs Diagram	CS1127	BEMF	106
HP	3	VFD #	ECIN2A10P5			LD	14.4
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Phase/Hz	3/60	Rating	40C AMB-CONT			Rs	1.0504 Meas L-L



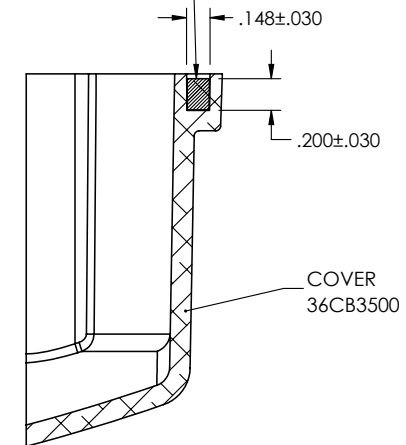
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36CB3500A00



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



SECTION A-A

REV. DESC: UPDATE MATERIAL

REV: A

VERSION: 01

REVISED: 10:45:08 03/29/2019

TDR: 000001101646



MODEL NO. 36CB3500A00

REF: -

BY: ENMARS0

Material: -

BALDOR - RELIANCE®

36 FRAME ODE ECM COVER WITH FOAM SEAL

36CB3500A00

