



Customer information packet

ECS100A2H5EB4

5HP, 1800RPM, 3PH, 60HZ, 184TC, TEFC, AXIAL

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
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	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	10.500 A @ 230.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	10.5 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
Lifting Lugs	Standard Lifting Lugs

Part detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGA0024
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	3632B
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™

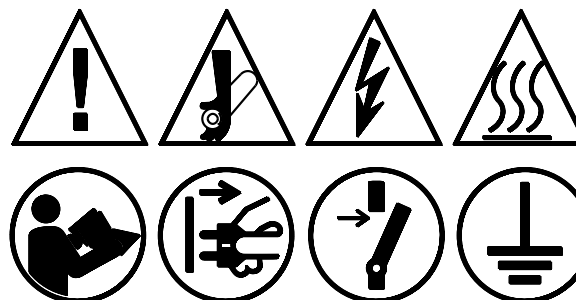
CAT. NO.	ECS100A2H5EB4									
SPEC.	36-0001559								YR	***
FRAME	184TC				ENCL.	TEFC		IP	54	
HP	5		RATING	40C AMB-CONT						
NOM. EFF.	93.7		PF	97		SF	1.0			
VOLTS	230				FLA	10.5				
RPM	1800			RPM MAX		4000				
HZ	60			PH.	3	CLASS			F	
BEMF (V)	126				Rs (Ω)		0.862			
Ld (mH)	13.5				Lq (mH)		47.8			
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.

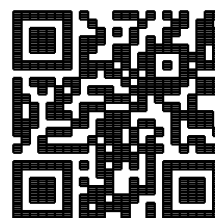
FERRITE ASSISTED
SYNCHRONOUS RELUCTANCE MOTOR
FOR INVERTER USE ONLY



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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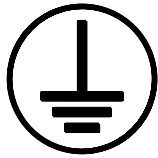
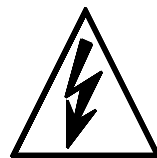
PART NO. EC12A10P5

U1 240 PH 3 HZ 60

I1 MAX 12.6 W /EXT. CHOKE 10.6

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	230	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	10.5	Max Amps		Cs Diagram	CS1127	BEMF	126
HP	5	VFD#	ECIN2A10P5			LD	13.5
RPM	1800	S.F.	1.00			LQ	47.8
Phase/Hz	3/60	Rating	40C AMB-CONT			Rs	0.8309
						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	1630	90%	14.6	100%	4.5	93.3	6.49%	245
P2	904	50%	14.6	100%	2.5	90.6	5.17%	195
P3	452	25%	14.6	100%	1.3	85.0	4.39%	166
P4	1628	90%	7.3	50%	2.3	93.3	3.24%	122
P5	905	50%	7.3	50%	1.3	91.7	2.26%	85
P6	905	50%	3.7	25%	0.6	91.3	1.19%	45
P7	453	25%	3.6	25%	0.3	88.6	0.80%	30

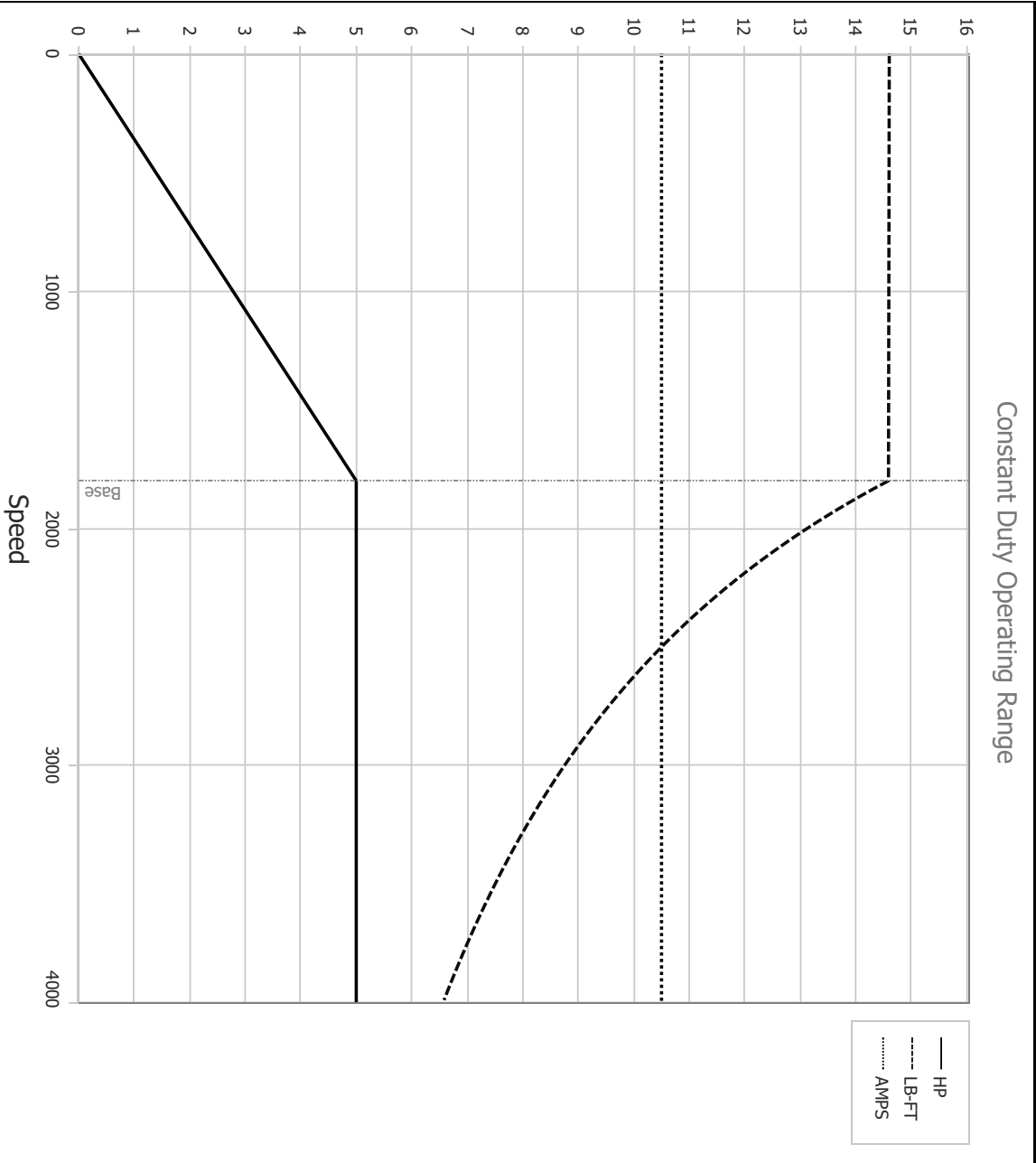
61800-9-2 PDS Performance at Reference Operating Points

	RPM	% Speed	LB-FT	% Torque	HP	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1810	100%	14.6	100%	5.0	90.8	10.11%	382
P2	904	50%	14.6	100%	2.5	86.0	8.09%	305
P3	301	17%	14.6	100%	0.8	70.7	6.86%	259
P4	1811	100%	7.3	50%	2.5	90.8	5.06%	191
P5	905	50%	7.3	50%	1.3	86.6	3.85%	145
P6	301	17%	7.3	50%	0.4	73.0	3.06%	115
P7	905	50%	3.7	25%	0.6	85.2	2.16%	82
P8	302	17%	3.6	25%	0.2	72.2	1.59%	60

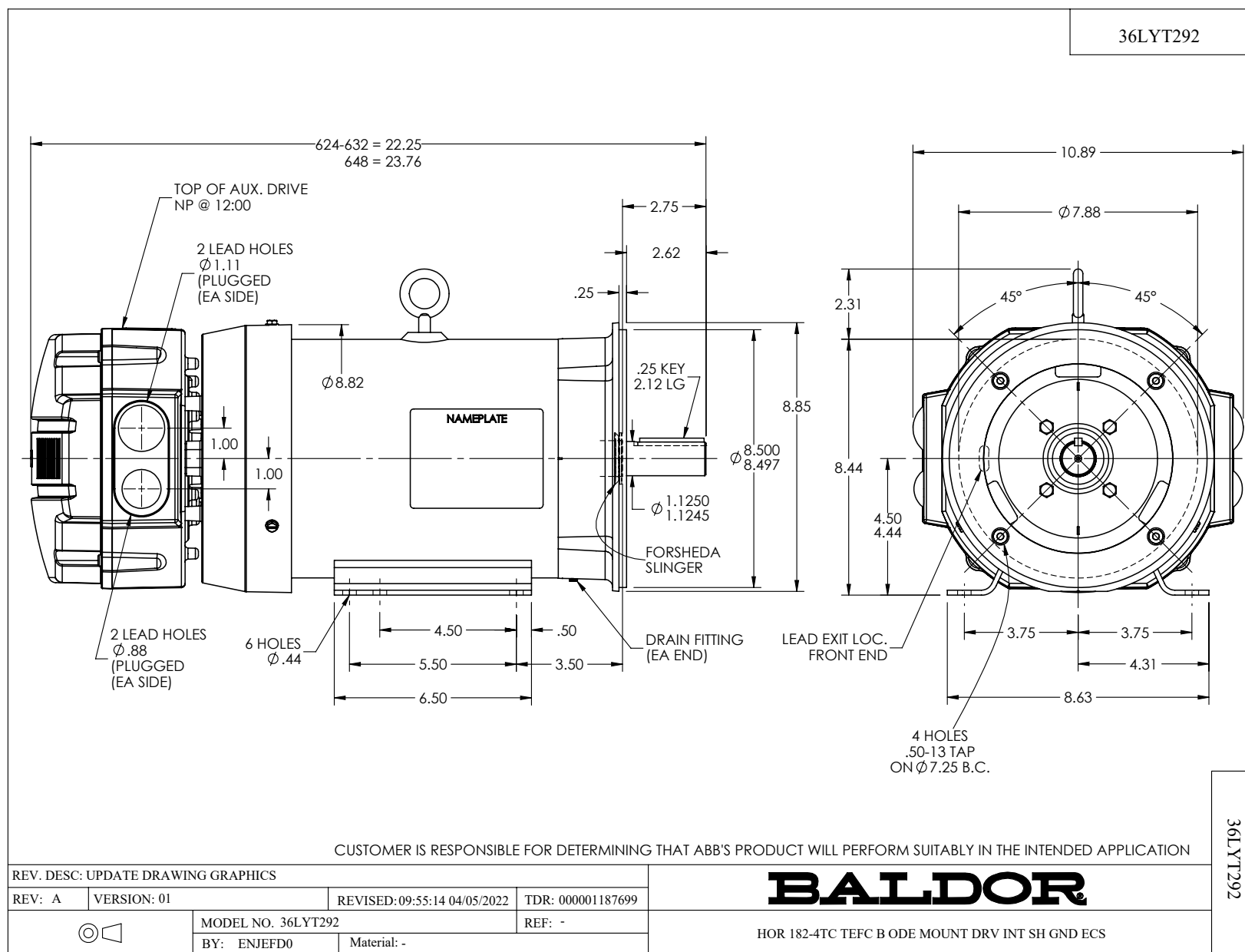
Points not taken in certified order.

BALDOR • RELIANCE	DR By:	<u>R & D</u>	AC MOTOR PERFORMANCE CURVES	36WGA0024 36-0000-0618 Test - 111814
	CK By:	<u>USTOSAN</u>		
	APP By:	<u>USWEQUA1</u>		
	Date:	<u>01/17/2025</u>		

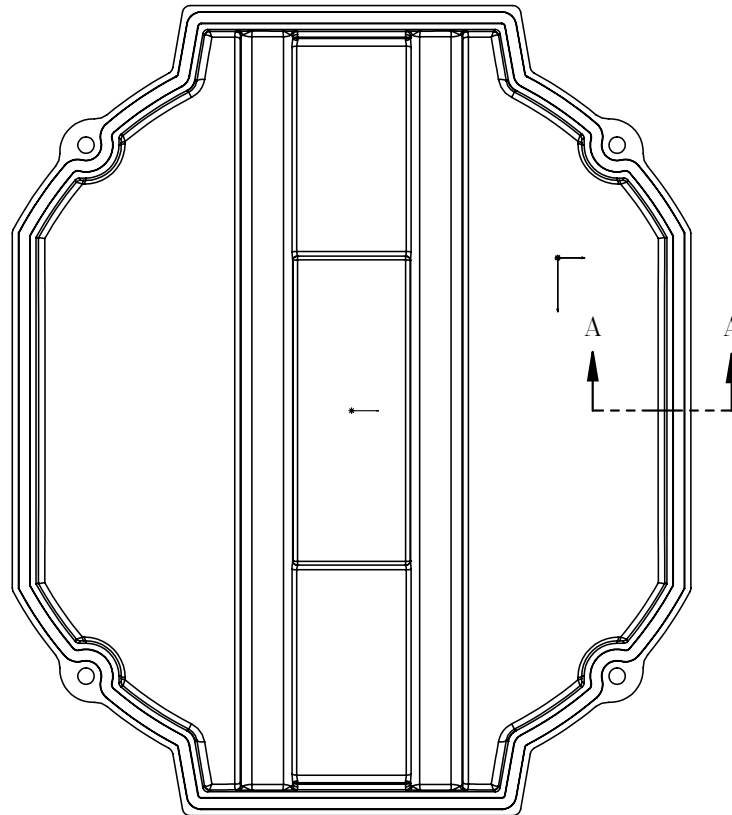
Volts	230	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	10.5	Max Amps		Cs Diagram	CS1127	BEMF	126
HP	5	VFD #	ECIN2A10P5			LD	13.5
RPM	1800	S.F.	1.00			LQ	47.8
Phase/Hz	3/60	Rating	40C AMB-CONT			Rs	0.8309
						Meas L-L	



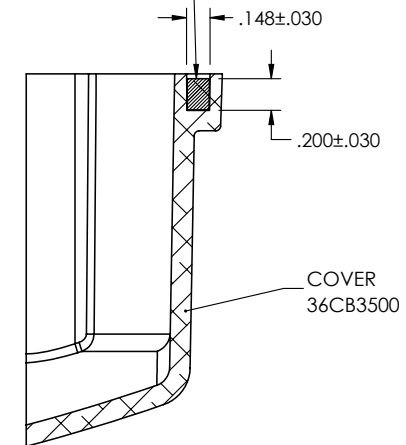
BALDOR • RELIANCE	DR By: <u>R & D</u> CK By: <u>USTOSAN</u> APP By: <u>USWEQUA1</u> Date: <u>01/17/2025</u>	AC MOTOR PERFORMANCE CURVES	36WGA0024 36-0000-0618 Test - 111814
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36CB3500A00



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

