



Customer information packet

ECS100T4H10FC4

10HP, 1800RPM, 3PH, 60HZ, 215TC, 3740B, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 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	11.000 A @ 460.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.8 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 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.	37WGA0021
Layout	37LYQ489
Eff. date	03-05-2025
CD Diagram	CD0006B03
Poles	04
Leads	3#12 19" LONG LEADS
Proprietary	False
Created date	09-28-2020

Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740B
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.23 IN
Power Factor	94
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 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

Nameplate

NP3978A01						
PART NO.	ECI4A12P0					
U1	480	PH	3	HZ	60	
I1	10.1	W/EXT. CHOKE				9.0
SERIAL #						

NP3968A01A01

CAT.NO.	ECS100T4H10FC4									
SPEC.	37-0001718									
FRAME	215TC			ENCL.		TEFC		IP		54
HP	10		40		C AMB			CONT		
NOM. EFF.	94.8		PF		94		SF		1	
VOLTS	460			FLA		11.22				
RPM	1800			RPM-MAX			3000			
HZ	60		PH.		3		CLASS		F	
BEMF (V)	231.36			RS (OHMS)					0.93	
LD (MH)	23.214					LQ (MH)			75.933	
VPWM	CHP		60		TO		120			
CT	6	TO		60			VT		1	TO 120
MATCHED INV	ECI4A12P0									
DE	6307			ODE			6206			
SERIAL #										

Volts	460	Max RPM	3000	Conn Diag.	CD0005	Leads	9
Amps	11	Max Amps		Cs Diagram	CS0576	BEMF	116/231
HP	10	VFD#	ECIN4A12P0			LD	5.8/23.2
RPM	1800	S.F.	1.50			LQ	19/75.9
Phase/Hz	3/60	Rating	40 C AMB			Rs	0.9625 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	1622	90%	29.2	100%	9.0	93.1	6.65%	502
P2	902	50%	29.2	100%	5.0	90.9	5.01%	378
P3	451	25%	29.2	100%	2.5	85.5	4.22%	318
P4	1624	90%	14.6	50%	4.5	91.8	3.98%	300
P5	903	50%	14.6	50%	2.5	90.3	2.68%	202
P6	903	50%	7.3	25%	1.3	86.9	1.88%	142
P7	451	25%	7.3	25%	0.6	81.6	1.40%	106

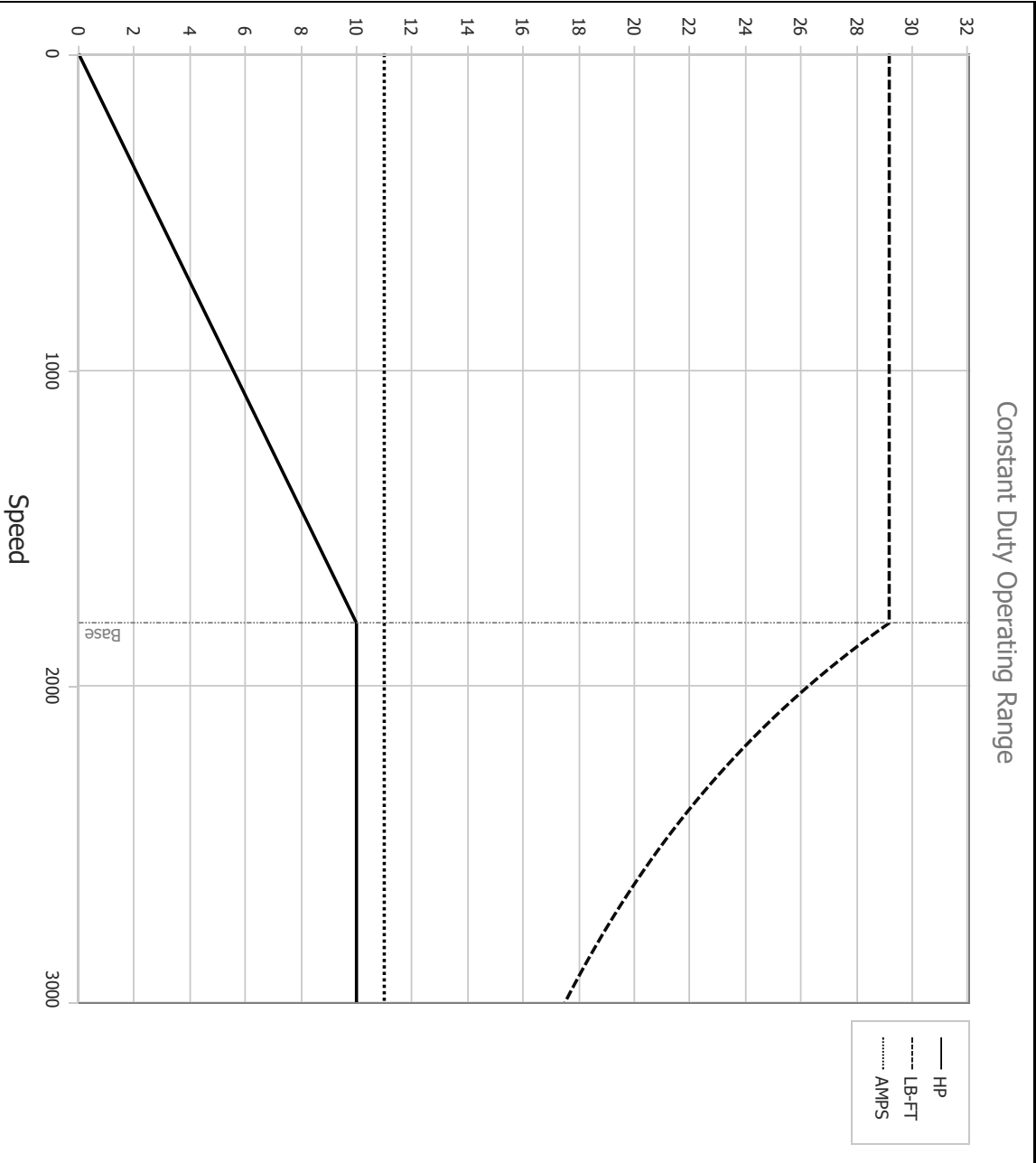
61800-9-2 PDS Performance at Reference Operating Points

	RPM	% Speed	LB-FT	% Torque	HP	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1806	100%	29.2	100%	10.0	92.7	7.79%	588
P2	902	50%	29.2	100%	5.0	89.0	6.13%	463
P3	300	17%	29.2	100%	1.7	77.0	4.93%	372
P4	1802	100%	14.6	50%	5.0	91.5	4.58%	346
P5	903	50%	14.6	50%	2.5	89.3	2.97%	224
P6	300	17%	14.6	50%	0.8	78.6	2.25%	170
P7	903	50%	7.3	25%	1.3	87.3	1.80%	136
P8	301	17%	7.3	25%	0.4	76.4	1.27%	96

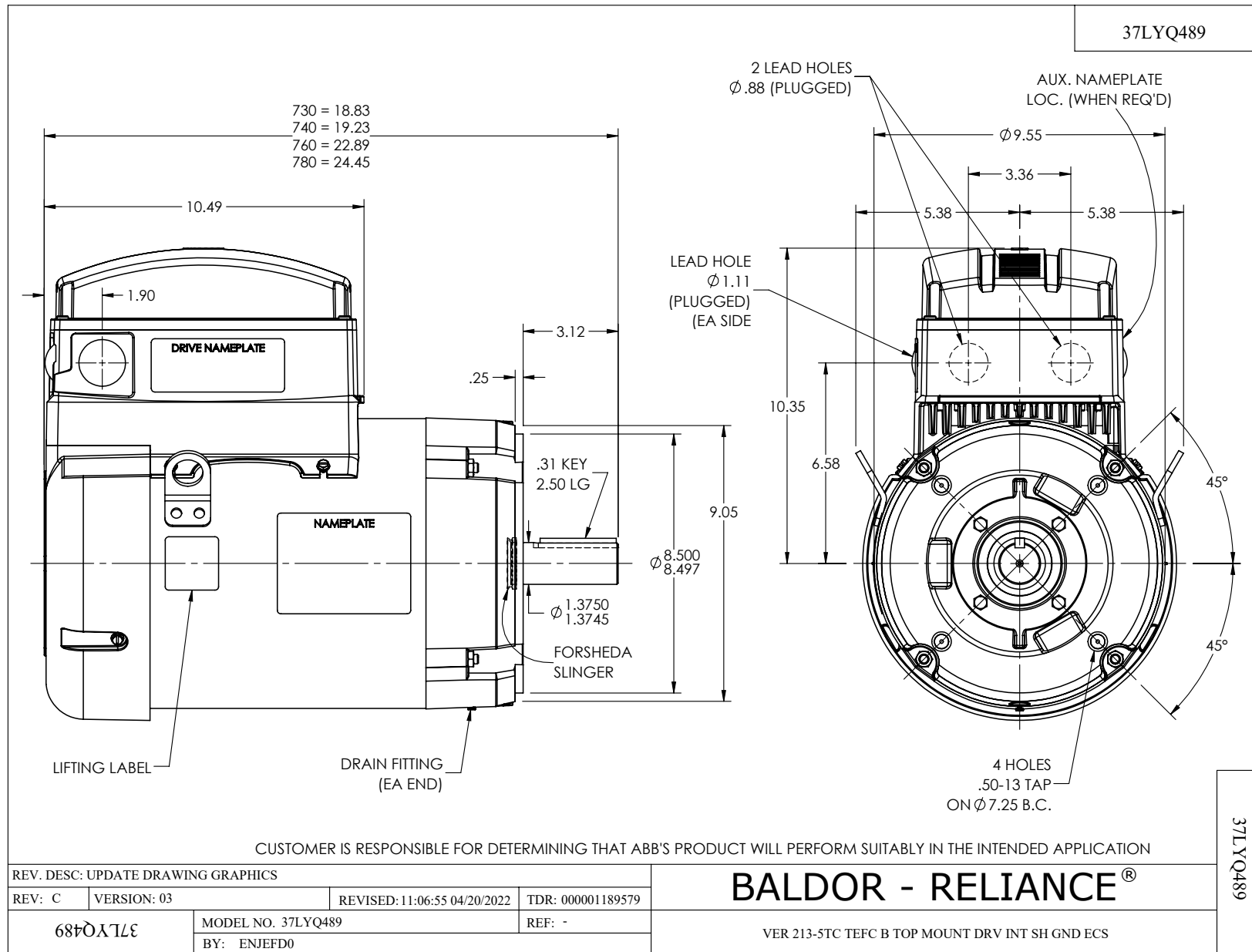
Points not taken in certified order.

BALDOR • RELIANCE	DR By: <u>R & D</u> CK By: <u>USGAHL</u> APP By: Date: <u>03/13/2025</u>	AC MOTOR PERFORMANCE CURVES	37WGL001 37Q435L001G1 Test - 112056
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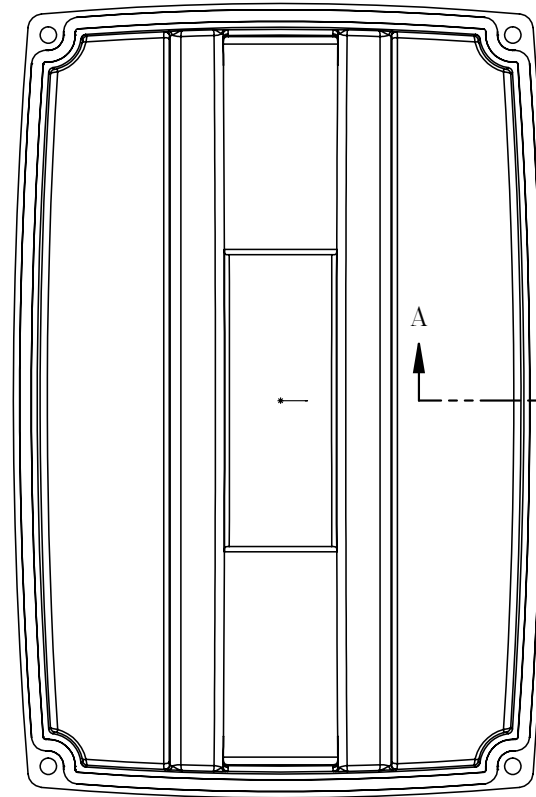
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Amps	11	Max Amps		Cs Diagram	CS0576	BEMF	116/231
HP	10	VFD #	ECIN4A12P0			LD	5.8/23.2
RPM	1800	S.F.	1.50			LQ	19/75.9
Phase/Hz	3/60	Rating	40 C AMB			Rs	0.9625 Meas L-L



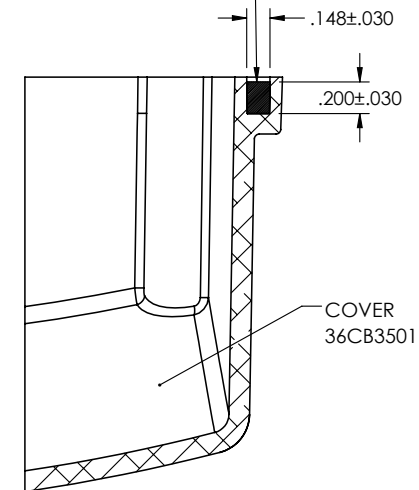
BALDOR • RELIANCE	DR By: <u>R & D</u> CK By: <u>USGAHLL</u> APP By: Date: <u>03/13/2025</u>	AC MOTOR PERFORMANCE CURVES	37WGL001 37Q435L001G1 Test - 112056
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36CB3501A00



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



SECTION A-A

REV. DESC: UPDATE MATERIAL

REV: A

VERSION: 01

REVISED: 10:46:37 03/29/2019

TDR: 000001101646



MODEL NO. 36CB3501A00

REF: -

BY: ENMARS0

Material: -

BALDOR - RELIANCE®

36 & 37 FRAME TOP ECM COVER WITH FOAM SEAL

36CB3501A00

