BALDOR • RELIANCE

Customer information packet

ECS101T2K0P8DF4

.75KW, 1500RPM, 3PH, 50HZ, D90S, 3516B, TEFC, B
Class - None
Division - Not Applicable

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12/22/2025 12:55:21 PM

Specifications

Enclosure	TEFC
Frame	D90S
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	.750 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ
Agency Approvals	CE
	CULUS
	UKCA
	WEEE
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
Constant Torque Speed Range	5
Current @ Voltage	2.500 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a

Part detail

Revision	C
Type	AC
Mech. spec.	35EE436
Base	
Status	PRD/A
Elec. spec.	35WGG932
Layout	35LYEE436
Eff. date	11-22-2024
CD Diagram	CD0006B03
Poles	04
Leads	3#14 13" LONG LEADS Y
Proprietary	False
Created date	04-16-2024

Insulation Class	F
Inverter Code	03
KVA Code	-
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516B
Mounting Arrangement	B3
Number of Poles	4
Overall Length	12.04 IN
Power Factor	98
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.945 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

NP3968B01A01									
CAT.NO.	ECS101T2K0P8DF4								
SPEC.	35EE436G932				**YR**				
FRAME	D90S		**IP**	55	**WT.**	36			
KW	.75	**HZ**	50		**PH**	3	**DUTY-IPM**	CONT	
INS CL	F		**CLASS RISE**			**AMB-C**	40		
EFF. CL	IE5	**EFF**	88.1		**COS0**	98			
VOLTS	230		**FLA**	2.5					
1/MIN	1500			**1/MIN MAX**	3000				
BEMF (V)	113			**RS (OHMS)**	4.9				
LD (MH)	30.8				**LQ (MH)**	135			
VPWM	**CP =**	50		**TO**	100				
CT	5	**TO**	50	**VT**	5	**TO**	50		
MATCHED INV	ECIN2A4P3								
DE	6205		**ODE**	6203					
SERIAL #									

NP3978A00							
PART NO.	ECIN2A4P3						
U1	240	**PH**	3	**HZ**	50		
I1	3.2	**W/EXT. CHOKE**				3	
SERIAL #							

Volts	230	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	2.5	Max Amps	2.5	Cs Diagram	CS1127	BEMF	135
KW	0.75	VFD#	ECIN2A4P3			LD	30.8
RPM	1500	S.F.	1.00			LQ	135
Phase/Hz	3/50	Rating	40C AMB-CONT			Rs	4.9221 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	1347	90%	3.5	100%	0.7	87.8	12.47%	94
P2	748	50%	3.5	100%	0.4	83.8	9.66%	72
P3	374	25%	3.5	100%	0.2	74.9	8.33%	63
P4	1346	90%	1.8	50%	0.3	88.4	5.88%	44
P5	748	50%	1.8	50%	0.2	85.9	4.09%	31
P6	748	50%	0.9	25%	0.1	85.3	2.15%	16
P7	374	25%	0.9	25%	0.0	81.1	1.47%	11

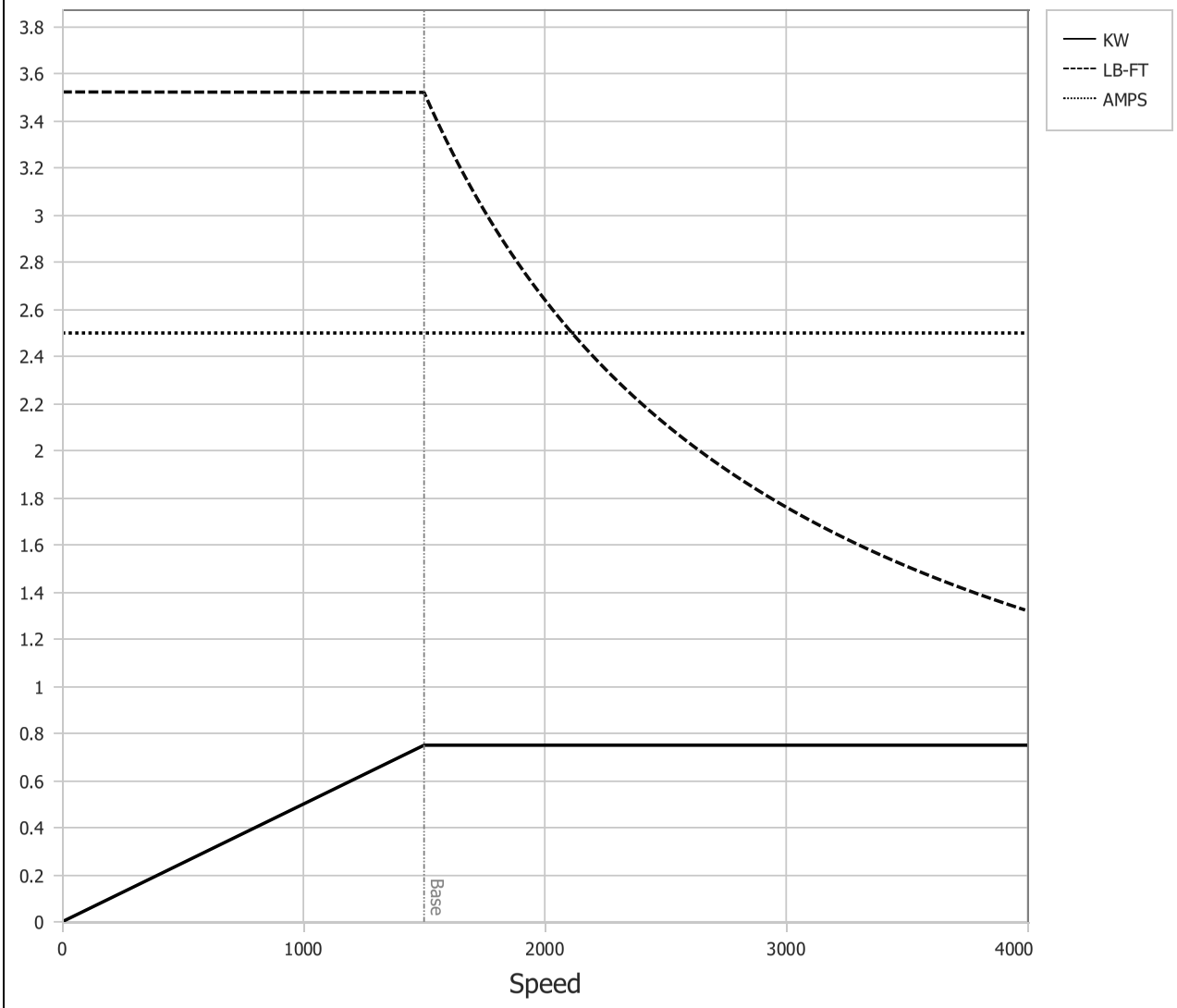
61800-9-2 PDS Performance at Reference Operating Points

	RPM	% Speed	LB-FT	% Torque	KW	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1496	100%	3.5	100%	0.7	85.3	17.22%	129
P2	748	50%	3.5	100%	0.4	79.6	12.77%	96
P3	254	17%	3.5	100%	0.1	60.8	10.92%	82
P4	1496	100%	1.8	50%	0.4	85.1	8.71%	65
P5	748	50%	1.8	50%	0.2	80.5	6.02%	45
P6	255	17%	1.8	50%	0.1	63.7	4.85%	36
P7	748	50%	0.9	25%	0.1	78.1	3.47%	26
P8	254	17%	0.9	25%	0.0	62.5	2.53%	19

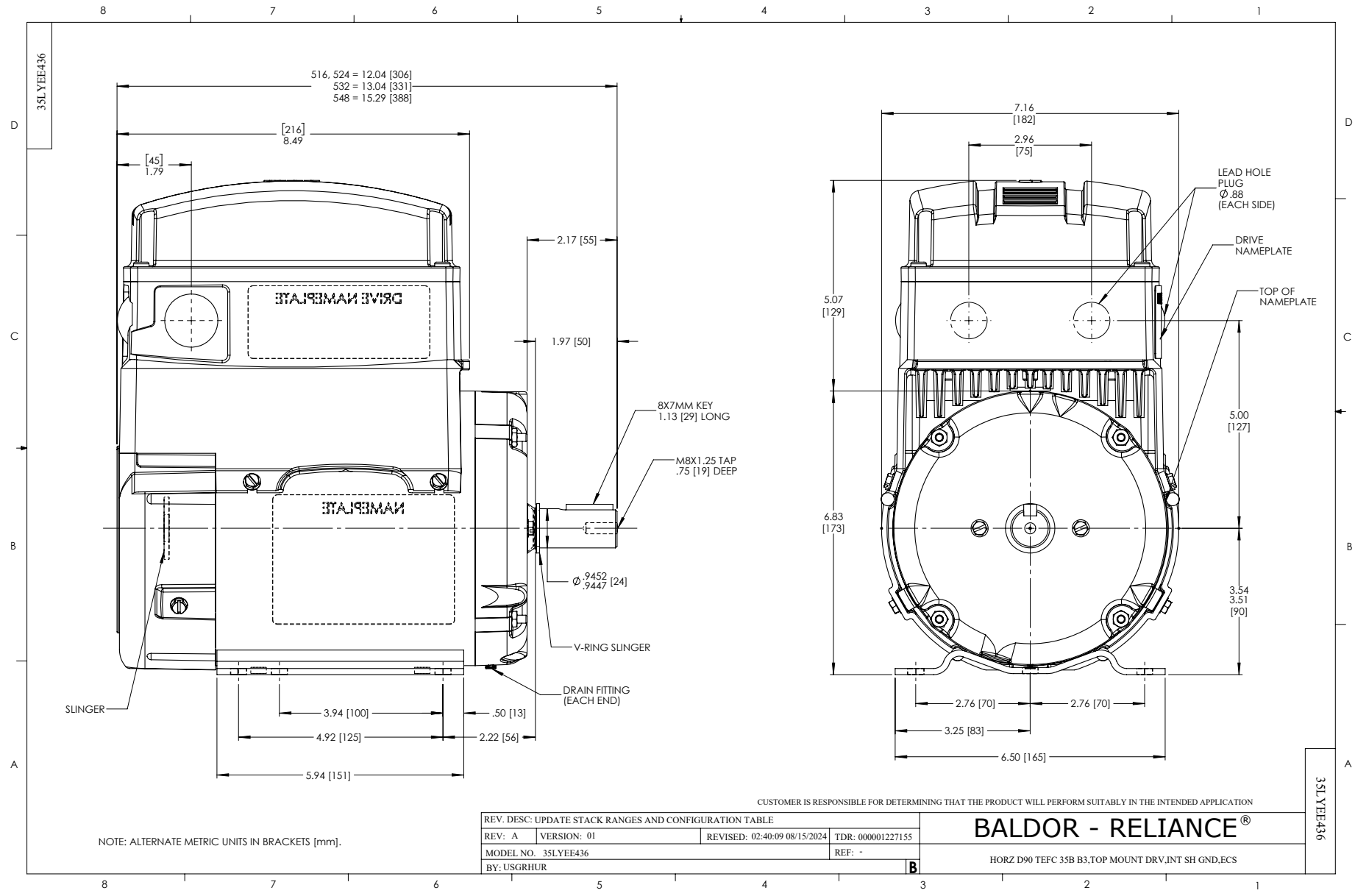
Points not taken in certified order.

BALDOR • RELIANCE	DR By: R & D CK By: USJORAD2 APP By: USJAROB1 Date: 07/27/2024	**AC MOTOR PERFORMANCE CURVES**	**35WGG932** 35E5209G932 *Test - 111044*

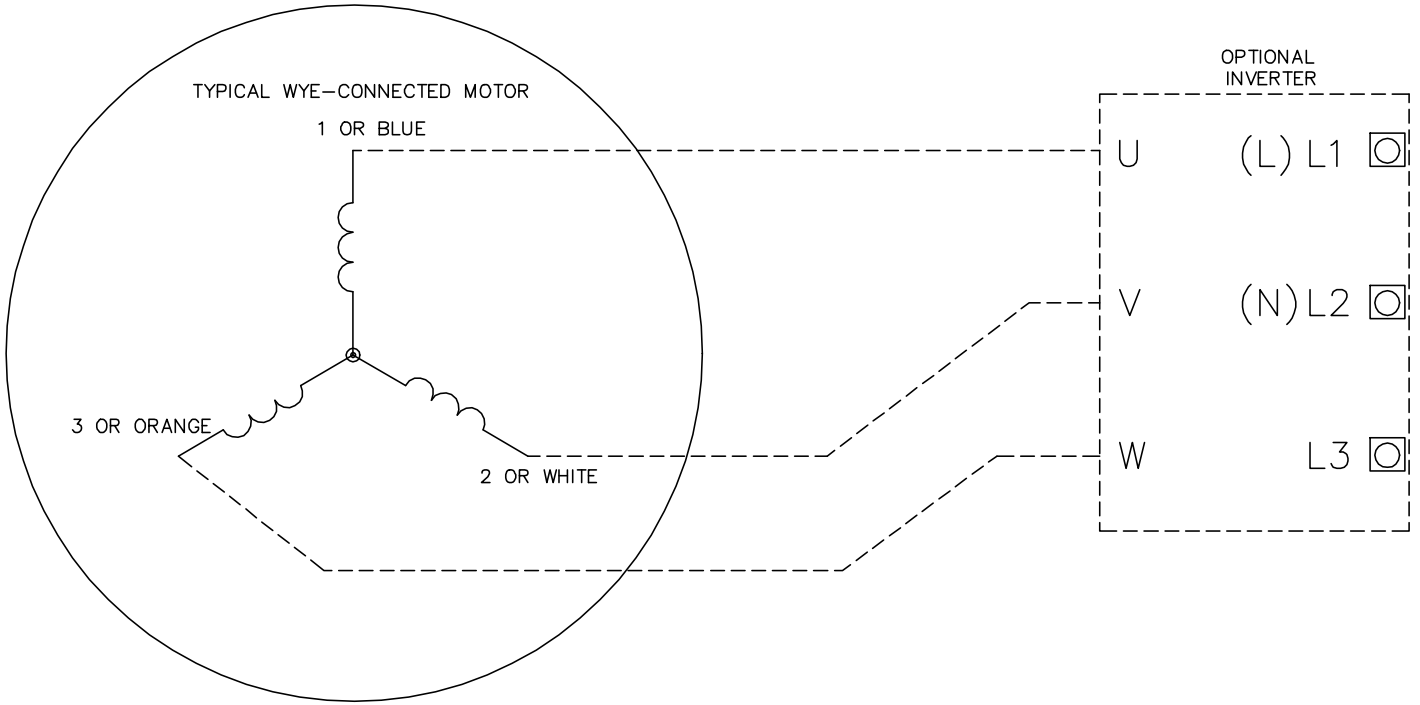
Volts	230	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	2.5	Max Amps	2.5	Cs Diagram	CS1127	BEMF	135
KW	0.75	VFD #	ECIN2A4P3			LD	30.8
RPM	1500	S.F.	1.00			LQ	135
Phase/Hz	3/50	Rating	40C AMB-CONT			Rs	4.9221 Meas L-L



BALDOR • RELIANCE	DR By: R & D CK By: USJORAD2 APP By: USJAROB1 Date: 07/27/2024	**AC MOTOR PERFORMANCE CURVES**	**35WGG932** 35E5209G932 *Test - 111044*


35LYEE436
516, 524 = 12.04 [306]
532 = 13.04 [331]
548 = 15.29 [388]
[216] 8.49
[45] 1.79
2.17 [55]
1.97 [50]
8X7MM KEY 1.13 [29] LONG
M8X1.25 TAP .75 [19] DEEP
Ø .9452 .9447 [24]
V-RING SLINGER
DRAIN FITTING (EACH END)
SLINGER
3.94 [100]
.50 [13]
4.92 [125]
2.22 [56]
5.94 [151]
DRIVE NAMEPLATE
NAMEPLATE
7.16 [182]
2.96 [75]
LEAD HOLE PLUG Ø.88 (EACH SIDE)
DRIVE NAMEPLATE
TOP OF NAMEPLATE
5.07 [129]
6.83 [173]
5.00 [127]
3.54 3.51 [90]
2.76 [70]
2.76 [70]
3.25 [83]
6.50 [165]
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE STACK RANGES AND CONFIGURATION TABLE
REV: A VERSION: 01 REVISED: 02:40:09 08/15/2024 TDR: 000001227155
MODEL NO. 35LYEE436 REF: -
BY: USGRHUR B
BALDOR - RELIANCE®
HORZ D90 TEFC 35B B3,TOP MOUNT DRV,INT SH GND,ECS
35LYEE436
NOTE: ALTERNATE METRIC UNITS IN BRACKETS [mm].

CD0006B03



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.

CD0006B03

REV. DESC: CHANGE LEAD COLORS TO BLUE WHITE ORANGE		
REV. LTR: A	VERSION: 01	TDR: 000001158598
FILE: \AAA\00252\917	REVISED: 11:01:03 01/19/2021	BY: ENMARSO
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE CONNECTED, ECS

SH 1 of 1