



Customer information packet

ECS101T2K1P5DF4

1.5KW, 1500RPM, 3PH, 50HZ, D90S, 3524B, TEFC, B

Class - None

Division - Not Applicable

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	1.500 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	3.400 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Heater Indicator	No Heater
High Voltage Full Load Amps	3.4 a

Part detail

Revision	C
Type	AC
Mech. spec.	35EE436
Base	
Status	PRD/A
Elec. spec.	35WGG964
Layout	35LYEE436
Eff. date	11-22-2024
CD Diagram	CD0006B03
Poles	04
Leads	3#16 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 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524B
Mounting Arrangement	B3
Number of Poles	4
Overall Length	12.04 IN
Power Factor	93
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.	ECS101T2K1P5DF4										
SPEC.	35EE436G964G1					YR					
FRAME	D90S			IP	55	WT.	45				
KW	1.5	HZ	50		PH	3	DUTY-IPM	CONT			
INS CL	F	CLASS RISE					AMB-C	40			
EFF. CL	IE5	EFF	90.6			COSØ	93				
VOLTS	230			FLA	3.4						
1/MIN	1500				1/MIN MAX			3000			
BEMF (V)	123				RS (OHMS)			2.94			
LD (MH)	22.1				LQ (MH)			97.1			
VPWM	CP =	50			TO	133					
CT	5	TO	50	VT	5	TO	50				
MATCHED INV	ECIN2A7P0										
DE	6205			ODE	6203						
SERIAL #											

NP3978A00					
PART NO.	ECIN2A7P0				
U1	240	PH	3	HZ	50
I1	5.3	W/EXT. CHOKE			5.1
SERIAL #					

Volts	240	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	4.8	Max Amps		Cs Diagram	CS1127	BEMF	148
KW	1.5	VFD#	ECIN2A7P0			LD	22.1
RPM	1500	S.F.	1.00			LQ	97.1
Phase/Hz	3/50	Rating	40C AMB-CONT			Rs	2.9430
						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	1350	90%	7.0	100%	1.3	89.4	10.66%	160
P2	748	50%	7.0	100%	0.7	85.3	8.58%	129
P3	363	25%	7.0	100%	0.4	76.5	7.40%	111
P4	1351	90%	3.5	50%	0.7	90.6	4.68%	70
P5	748	50%	3.5	50%	0.4	88.7	3.17%	48
P6	748	50%	1.8	25%	0.2	89.2	1.50%	23
P7	363	25%	1.7	25%	0.1	84.6	1.10%	16

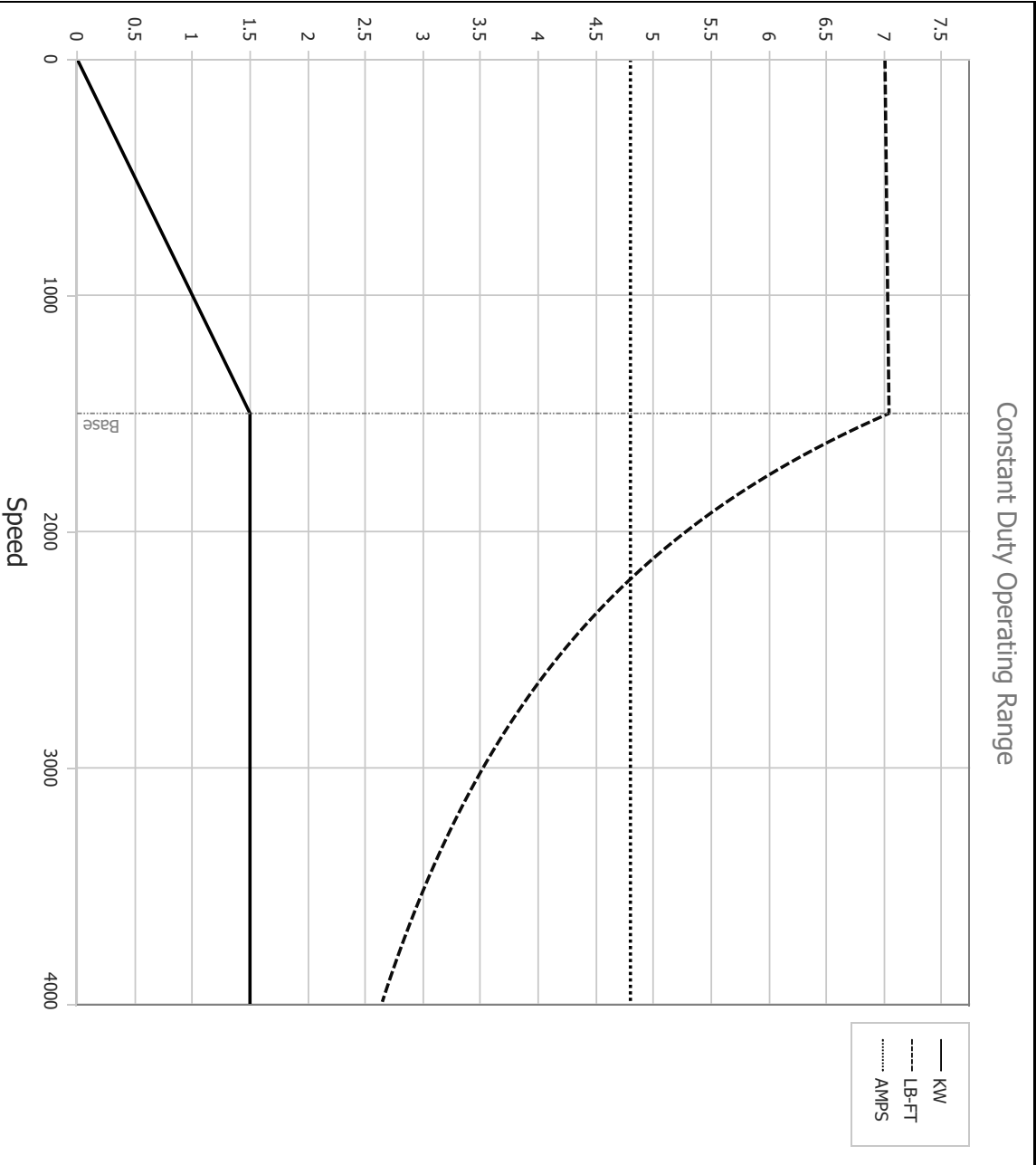
61800-9-2 PDS Performance at Reference Operating Points

	RPM	% Speed	LB-FT	% Torque	KW	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1504	100%	7.0	100%	1.5	87.6	14.07%	211
P2	748	50%	7.0	100%	0.7	81.1	11.56%	173
P3	242	17%	7.0	100%	0.2	62.2	9.78%	147
P4	1500	100%	3.5	50%	0.7	88.2	6.63%	99
P5	748	50%	3.5	50%	0.4	83.9	4.74%	71
P6	242	17%	3.5	50%	0.1	67.0	3.96%	59
P7	748	50%	1.8	25%	0.2	83.3	2.50%	37
P8	242	17%	1.8	25%	0.1	67.9	1.90%	29

Points not taken in certified order.

BALDOR • RELIANCE	DR By: <u>R & D</u> CK By: <u>USTOSAN</u> APP By: <u>USJAROB1</u> Date: <u>07/10/2024</u>	AC MOTOR PERFORMANCE CURVES	35WGG964 35E5209G964G1 Test - 110926
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Volts	240	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	4.8	Max Amps		Cs Diagram	CS1127	BEMF	148
KW	1.5	VFD #	ECIN2A7P0			LD	22.1
RPM	1500	S.F.	1.00			LQ	97.1
Phase/Hz	3/50	Rating	40C AMB-CONT			Rs	2.9430 Meas L-L



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