LINCOLN SERVICE CENTERS

SERVICE REPORT

Customer:	LINCOLN SERVICE			
Job #:	<i>163945</i>			
Date:	8/24/2023			
Weight:	700 lbs			

Brass Tag #:	45824
P/O #:	TBD
Box Size:	FREIGHT
Location:	CUSTOMER

Motor Nameplate Information:						
Mfg:	FRANZ KESSLER	KW:	40	RPM:	8000	
Туре:	AC SERVO	Serial:		179023		
Model #:	DMR132AM4FGS/F			Volts:	400	

Feedback nameplate information:			
Mfg:	LENORD + BAUR		
Part #	GEL2442-256		
Туре	SIN/COS		
ldNr:	1Vpp 265 p/rev		

	Nar	me	plate	e:					
			Kessi d Buchau			нс	F IE	~ M(C 600 DE 05	34
Тур	DMR	132	AM 4	1057	-	1	1	Nº YE	
SN	1	790	23	1	N.:	000 31	3 4	15	191 194
min ⁻¹	2000	-	8000	1	100	1 - 6	101		8000
kW	- 40		40	1	2		120	Par	44
V	300		400	1	31		4911	-	400
A	110	-	70	1	15	1	(A)	-	82
Hz	68	-	271	1	68	5			274
coso	No and the second	Y		1		12.1	1		
18		S1		1		S			
Isol.C	I F	Vib	r.CI.S	Bal		IP 54		IC	
IM	B5		0.0	199	kgr	n ² m _{tot}		216	k
F(M)	20	1	N		V	- Manual	А		Н
0	L&B		EL244	Y	074	- 256		na/l	1
))]		Vm		V		А		

STATOR WINDING TESTS:						
Insulation to frame check:		8		MegOhms @ 1000v		
Hipot Test:	1500v		Surge Test:		2500v	
Winding resistance:	0.060 Ω	U-V	0.060 Ω	V-W	0.060 Ω	W-U
Back EMF	N/A	U-V	N/A	V-W	N/A	W-U
Rated BEMF	N/A					

BRAKE INFORMATION:		Tested torque:		N/A	Replaced:	
Manufacturer:	N/A	Model #:		N/A	Release	voltage:
Rated Torque:	N/A	Rated Volta	ige:	N/A		
Initial Torque:	N/A	Coil Resista	nce:	N/A		

FAN MOTOR TESTS:						
Insulation to frame che	N/A MegC			gOhms @ 1000v		
Hipot Test:	1500v		Surge Test:		250	00v
Winding resistance:	N/A U-V		N/A	V-W	N/A	W-U

ENCODER TESTS:		Initial test:	GO	OD	Replaced:	NO
Count per turn:	256	Continuous count error	's:	NONE		
Phase offset:	GOOD	Symmetry A-B	GO	OD		
Oscilloscope Check:	GOOD					

RESOLVER TESTS:							
Resistances:	Excita	ation:	N/A	Cosine:	N/A	Sine:	N/A
Outputs checked with oscilloscope at:					KHz Excitation Freq.		
Insulation to frame check:			MegOhm	s @ 250v			
Vector Volts							

Deter Milenetienster	0040/0024	section / sites
Rotor Vibration test:	.0019/.0021	mils/ disp.

MOTOR CONNECTION PINOUTS AND WIRING:

Motor Power Con	nection Diagram					
Connector direction:						
HARD WIRED						
Connector Number:						

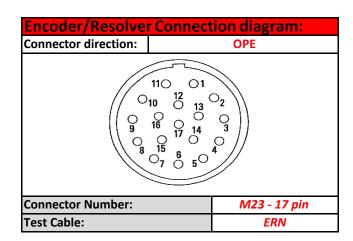
Pin	Function	Color
U1		
V1		
W1		
	U2,V2,V3 ARE Y	

Brake Connection:

N/A

Pin	Function	Color

Motor fwd direction DE	CW
Resolver Fwd direction DE	
Encoder A/B rotation DE	CW
Commutation Signal	SIN/COS
Motor number of poles	4
Resolver number of speeds:	N/A



Pin	Function	Color
1	Α	Yellow
2	A*	Green
3	R	Grey
4	N/C	
5	N/C	
6	N/C	
7	M encoder (0v)	Blue
8	(KTY 84) +1R1	Brown
9	(KTY 84) +1R2	White
10	P encoder (5v)	Red
11	В	Brown
12	В*	White
13	R*	Pink
14	N/C	
15	Ov Sense	Blue
16	5v Sense	Red
E	N/C	

Static lock-up position

		Encoder ali	ignments:		
	Polarity	of DC voltag	e applied to	o leads:	
Pha	Phase U Phase V Phase W				
H1	H2	Н3	H4	H5	H6
+U,-V	N/A	+U,-W	N/A	0 °	N/A

Dynamic commutation alignment check using an oscilloscope:

With motor being driven in FORWARD direction

Input 1	Channel .	A - Motor stator leads	
Scope pr	obe to:	Reference lead to	
Input 2	Channel	B - Connected to feed back signals	
Scope pr	obe to:	Reference lead to	

Heidenhain PWM20 test results:

			Protocol
	Deserving Country DM	T Haming Limit	10000
alog Level Logic	Recording Counter PW	i Homing - Limit	
*1	9/23/2020		Analog
en 1	7:35:42 AM		X/Y-Display X=Sig A Y=Sig B
version: number;	3.4.1		
cription:	575		
erface:	1 Vpp		
tage			0.4
tage (V):	4.992		02
rent [A]: mr [N]:	0.030 0.151		0
	0.151		42
sured values			
pling rate [k5/s]:	100		
ber of samples: ition [Increments];	2000		41
quency [kHz]:	0.472		48
A [Vpp]: B [Vpp]:	1.017 1.000		45 8 05
	1.017		Y/t-Display Red=Sig A Blue=Sig B Green=Sig R
(*): A (*):	1,235		
<pre>B [*]: ition [*]:</pre>	0.076		80
th (*):	293.6		3.5
escent value [V]: ble component [V]:	0.389 0.559		
tching threshold :	0.832		

			42

Replace bearings Align encoder and verify outputs Run test and verified alignment	YASKAWA A1000	Franz Kessler cust	tom parameters	Coupling s	ize	42 MM	
	Notes:	Complete rebuild					
Align encoder and verify outputs Run test and verified alignment							
Run test and verified alignment	Replace bearings						
Run test and verified alignment	Align encoder and veri	ify outputs					
	Run test and verified a	lignment					
Precision trim balance with vibration analysis	Precision trim balance	with vibration analysis					
		_					
	Bearings:	Pulley End	B7013-E-T-P4S-UL	Opposite Pulley End		B701	3-E-T-P4S-UL
Bearings: Pulley End B7013-E-T-P4S-UL Opposite Pulley End B7013-E-T-P4S-UL	Seals:	N/A			Technician:		BN

