Job Information

Job #:	138368			Date:	November 5, 2018
Priority:	—	Authorized OT:	No	Authorized by:	

Customer Information

Name:		Motor#:	

Name Plate Information

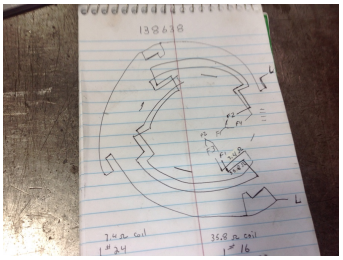
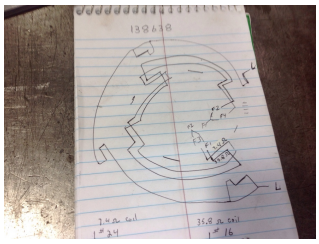
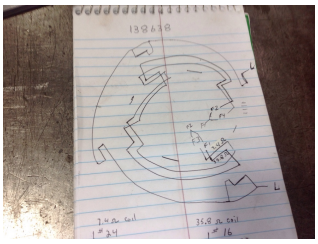
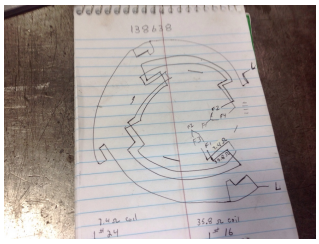
Manufacturer:	RELIANCE	Enclosure :	Open Drop Proof (ODP)
Serial#:	1UK8828595T1-DG	Model#:	
Service Factor:		Frame:	503ADZ
Horsepower/kW:		Rated RPM:	400/2400

Armature		Fields	
Volts	240	Volts	240
Amps	5463	Amps	

Winding Inspection

Identify winding disassembly & winding assembly.

Armature diagram	IP diagram	Flds diagram	Comm diagram

Winding Inspection (Continued)

DC Drop Test

Megohmmeter reading to ground @ 500 V DC

Armature

Shunt

Interpole

Series

Nameplate field volts:

Nameplate amps:

Num coils:

Resistance = Field votes: / Field amps: = 0

Total field resistance: @ F/C correct to 25 degrees C

Test tolerances: For a DC drop Test +/- 5% from average; for an AC drop test +/- 10% from average.

Applied Voltage 1: DC/# of Coils 1: = Target Voltage/coil 1: 0

Applied Voltage 2: DC/# of Coils 2: = Target Voltage/coil 2: 0

DC Drop Test (Continued)

Match mark all coils clockwise beginning at the leads.

Voltage Applied

Shunt DC Voltage: Shunt AC Voltage:

Voltage Measured

Coil #	DC	AC
Coil 1		
Coil 2		
Coil 3		
Coil 4		
Coil 5		
Coil 6		
Coil 7		
Coil 8		
AVERAGE	0	0
+5%	0	0
-5%	0	0

DC Drop Test (Continued)

Match mark all coils clockwise beginning at the leads.

Voltage Applied

A. Interpoles DC Voltage:

A. Interpoles AC Voltage:

Voltage Measured

Coil #	DC	AC
Coil 1		
Coil 2		
Coil 3		
Coil 4		
Coil 5		
Coil 6		
Coil 7		
Coil 8		
AVERAGE	0	0
+5%	0	0
-5%	0	0

DC Drop Test (Continued)

Match mark all coils clockwise beginning at the leads.

Voltage Applied

B. Interpoles DC Voltage:

B. Interpoles AC Voltage:

Voltage Measured

Coil #	DC	AC
Coil 1		
Coil 2		
Coil 3		
Coil 4		
Coil 5		
Coil 6		
Coil 7		
Coil 8		
AVERAGE	14288.54	104.68
+5%	1.05	0
-5%	0.95	0

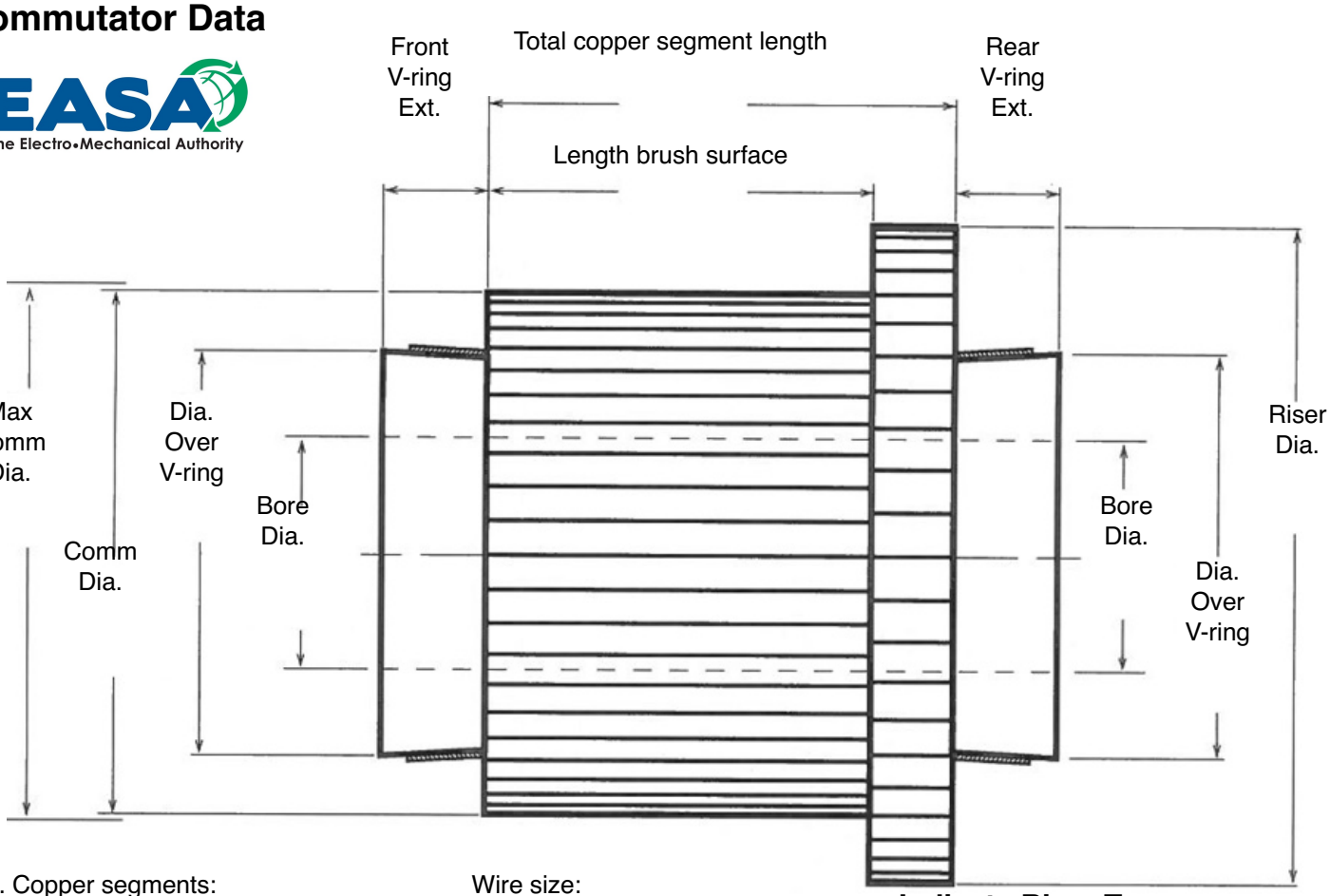
Conclusion

Service Tech name:

Service Tech signature:

Commutator Data

EASA The Electro•Mechanical Authority



No. Copper segments: Wire size:

Mica segment thickness: Wires/riser slot:

Equalizer size: Equalizer/riser slot:

Equalizer seq. on comm.:

Commutator Type ☐ Nut v-ring ☐ Bolt v-ring ☐ Glassband

☐ Riveted* ☐ Molded*

☐ Other*

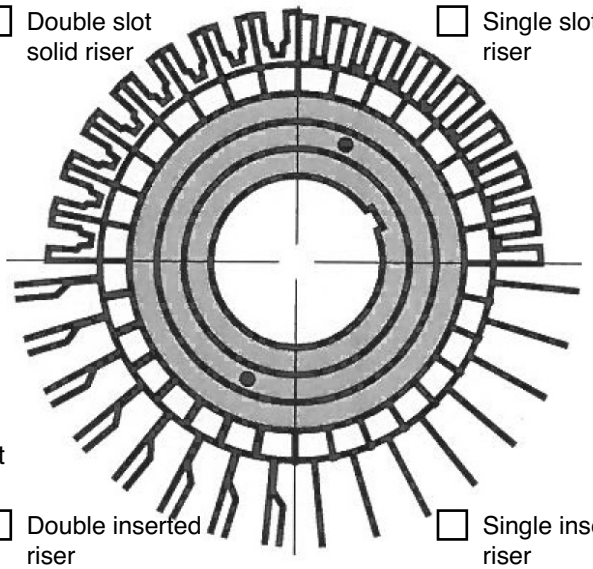
Shaft Diameter
Keyway alignment with center line of: ☐ Mica ☐ Copper segment

Keyway size:

*If molded, riveted or other micrometer measurement of shaft diameter corresponding to the commutator bore diameter is required.

Indicate Riser Type

☐ Double slot solid riser ☐ Single slot solid riser



☐ Double inserted riser ☐ Single inserted riser

Inserted riser thickness:

WEST TENNESSEE
7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

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6812 Lindsey Rd.
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DC Machine Data Sheet

EASA The Electro•Mechanical Authority

Armature Coil Data

Slots: Turns per coil: Coil per slot:

Wire size: Wires in mult.: Wire type: Wire weight: Lbs.

Bars: Slot span 1 to: Comm span 1 to:

Winding Type

☐ Shunt

☐ Series

☐ Compound

No. of equalizers: Span 1 to: Wire size:

Interpoles: Yes

Knuckle: ☐ Standard ☐ Double

Wound: ☐ Flat ☐ Edge

Coil: ☐ Left hand ☐ Right hand

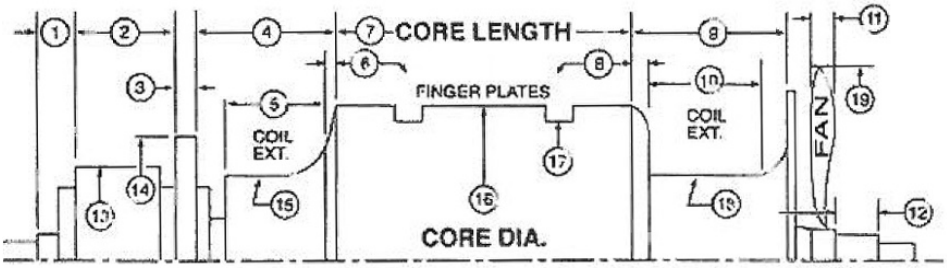
Compensating Winding

Wire size: Turns per slot:

☐ Compensating or Pole Face Winding

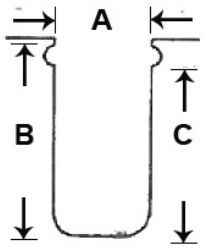
☐ Permanent Magnet

1 2 3 4 5 6 7 8 9 10



11 12 13 14 15 16 17 18 19

Slot Dimensions



A

B

C

Insul. class:

Temp. Rise:

Duty:

Wave Winding

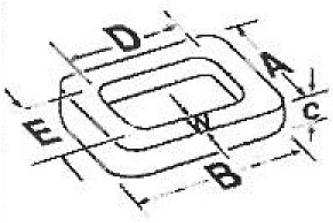
Leads from slot 1 to bar:

Leads from

Slot to bar:

Field Coil Dimensions

TYPE	A	B	C	D	E	W
Shunt						
Series						
Interpoles						



Manufacturer's Part Numbers

Lap Winding

Leads from slot 1 to bar:

Leads from

Slot to bar:

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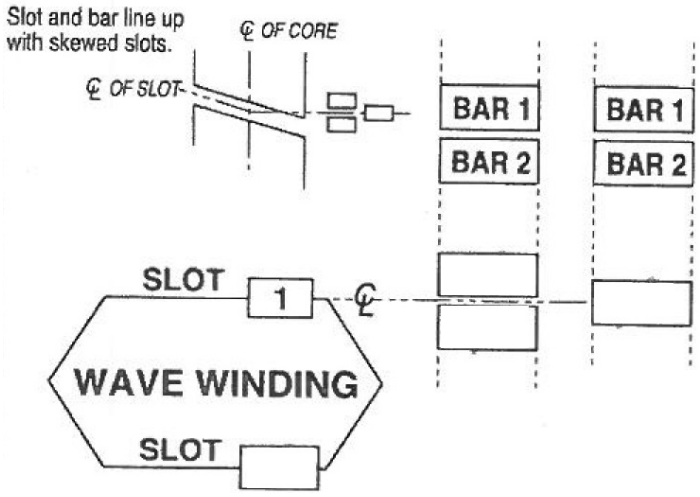
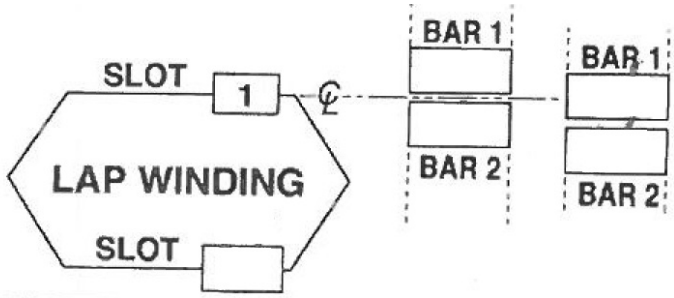
DC Machine Data Sheet (Continued)

Field Coil Winding Data

Type	No. Coils	No. Cir.	Turns Per Coil	Wire Mult.	Wire Size & Type	Lbs. Per Coil	25 Ohm Per Coil DC
Shunt	8	1	493	1	24	2.75	35.8
			798	1	16	16.5	7.4
Series	4	1	2	1	114228	0.25	
Interpoles							

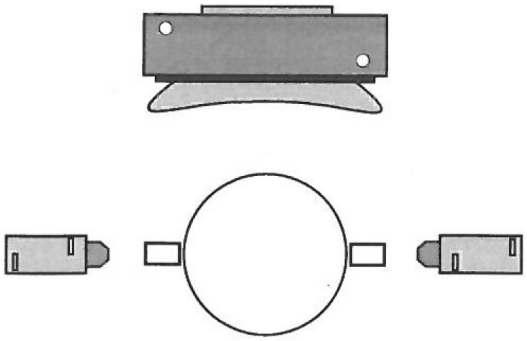


Slots and bars are numbered 1-2-3 etc... in CCW direction facing the commutator.



Remarks

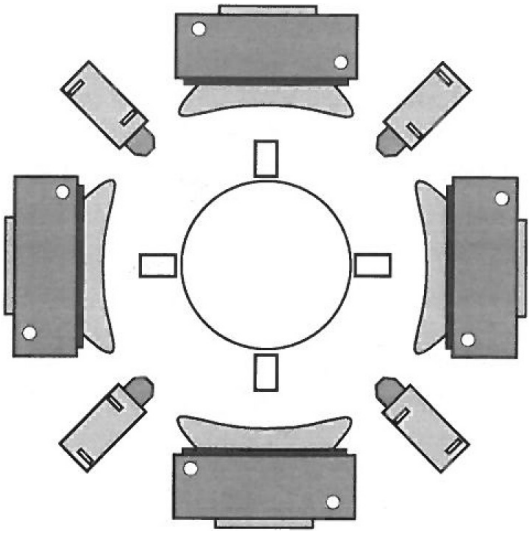
As-Received Connection Form--2-,4-,and 6-pole DC Machines



(Draw and number leads and jumpers as received)

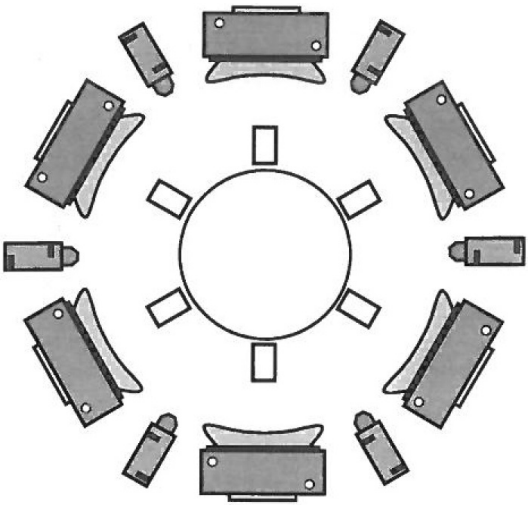
2-Pole Template

	Quantity in series	Quantity in parallel
Number of poles		
Number of interpoles		
Number of series fields		



4-Pole Template

	Quantity in series	Quantity in parallel
Number of poles	4	4
Number of interpoles	4	4
Number of series fields	4	4



6-Pole Template

	Quantity in series	Quantity in parallel
Number of poles		
Number of interpoles		
Number of series fields		

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