



MILLINGTON, TN

LITTLE ROCK, AR

## Job Information

Job #: 136294

Date: May 4, 2018

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: ARJ

Motor#:

## Name Plate Information

Manufacturer:

Enclosure : Open Drop Proof  
(ODP)

Serial#:

Model#:

Service Factor:

Frame:

Horsepower/kW:

Rated RPM:

Armature

Volts

Amps

Fields

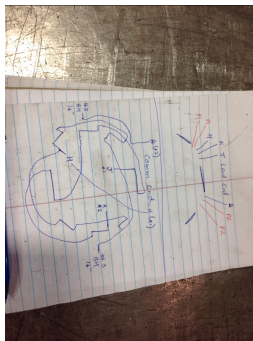
Volts

Amps

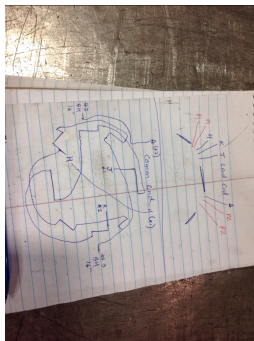
## Winding Inspection

Identify winding disassembly &amp; winding assembly.

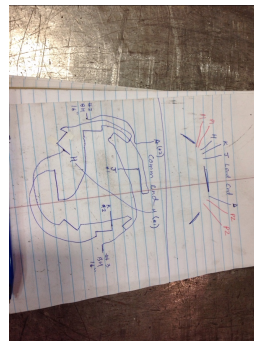
Armature diagram



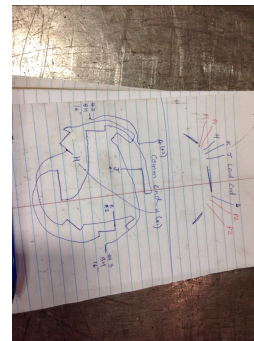
IP diagram



Flds diagram



Comm diagram



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

**CENTRAL ARKANSAS**  
6812 Lindsey Rd.  
Little Rock, AR 72206  
Phone 501-375-9178  
Fax 501-375-4254



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## 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

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## 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

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## 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

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## 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	0	0
+5%	0	0
-5%	0	0

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## Conclusion

Service Tech name: Kev F

Service Tech signature:

Kev F

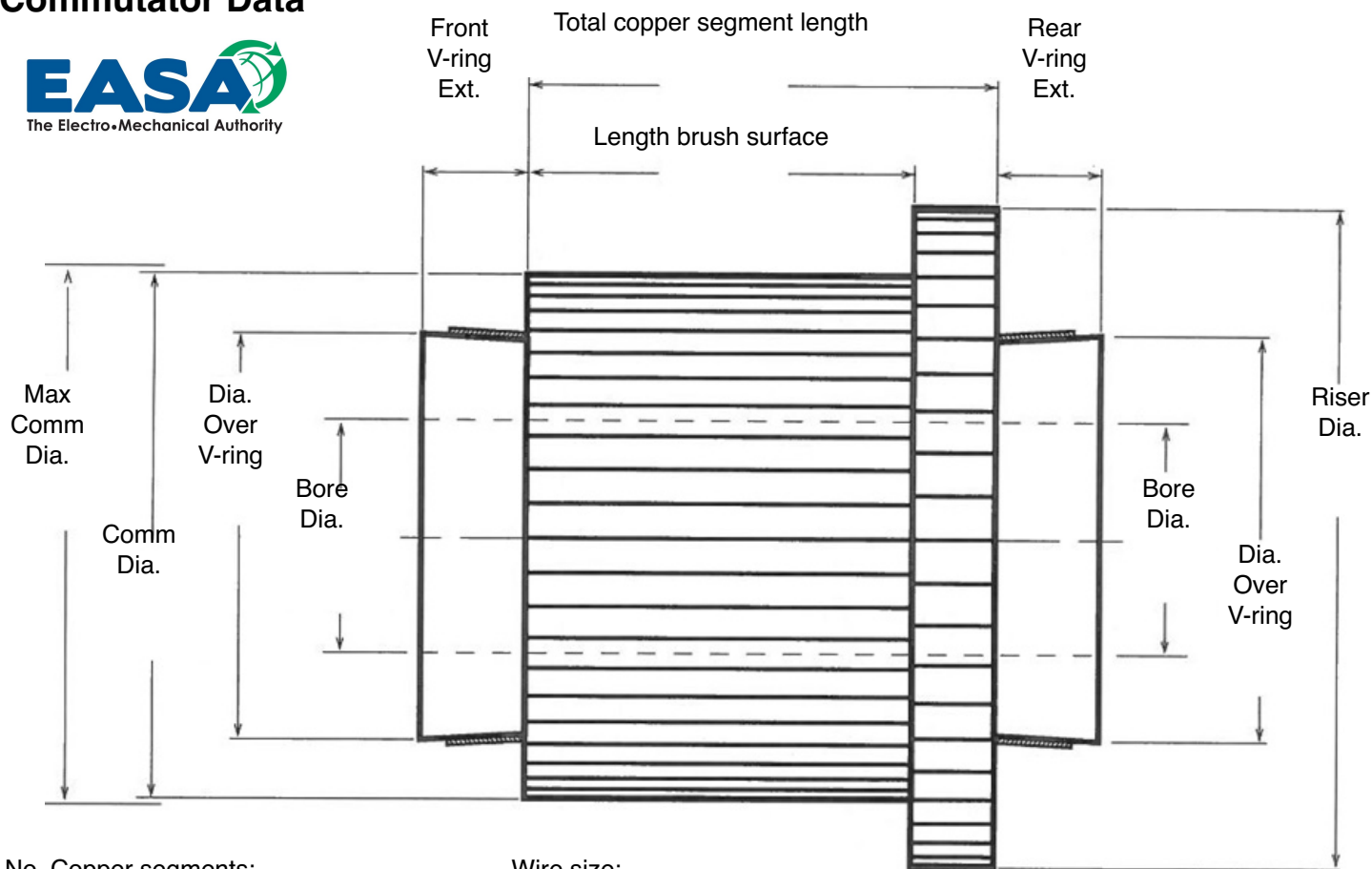
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## Commutator Data



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

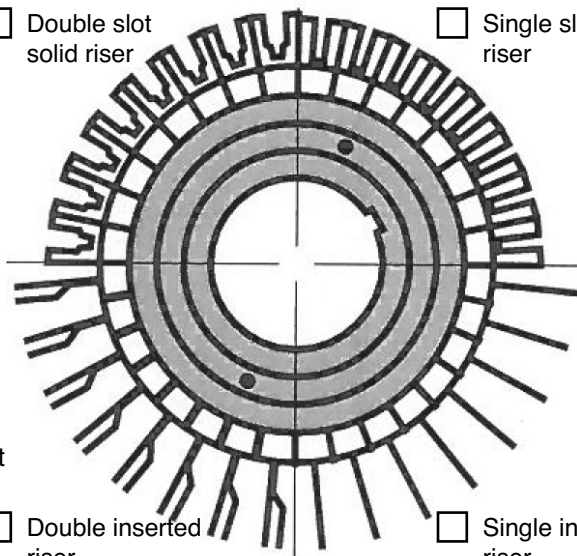
Keyway alignment with center line of: ☐ Mica ☐ Copper segment

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


Inserted riser thickness:

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# DC Machine Data Sheet

## 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:

**Knuckle:** ☐ Standard ☐ Double

**Wound:** ☐ Flat ☐ Edge

**Coil:** ☐ Left hand ☐ Right hand

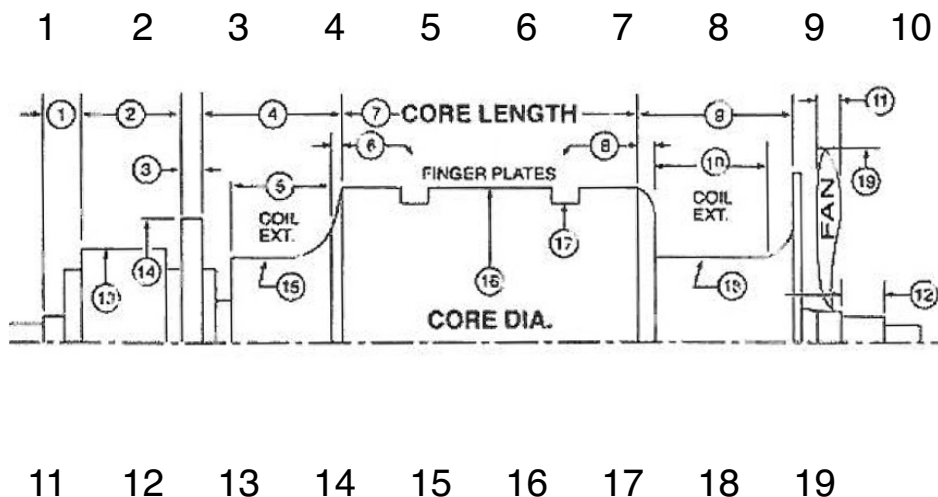
## Compensating Winding

Wire size: Turns per slot:

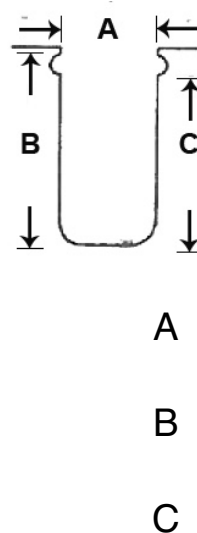
Interpoles: Yes

☐ Compensating or Pole Face Winding

☐ Permanent Magnet



## Slot Dimensions



Insul. class:

Temp. Rise:

Duty:

## Wave Winding

Leads from slot 1 to bar:

Leads from

Slot to bar:

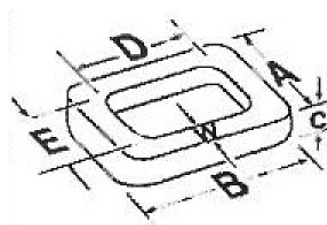
## Field Coil Dimensions

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:

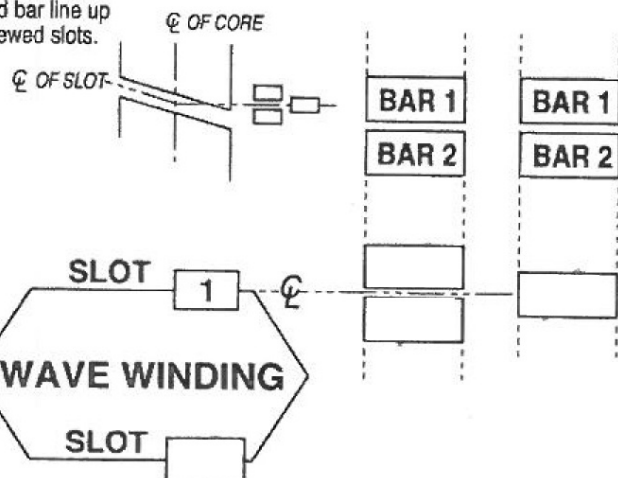


## DC Machine Data Sheet (Continued)

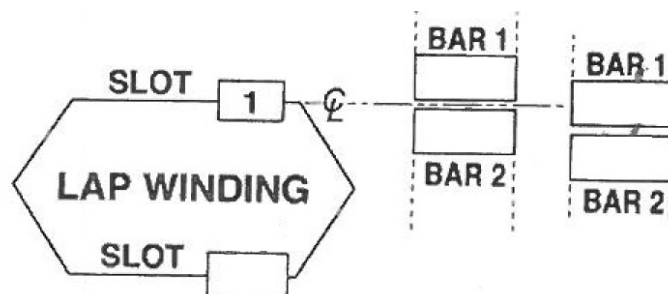
### Field Coil Winding Data

Type	No. Coils	No. Cir.	Turns Per Coil	Mult.	Wire Size & Type	Lbs. Per Coil	25 Ohm Per Coil DC
Shunt							
Series							
Interpoles							

Slot and bar line up with skewed slots.



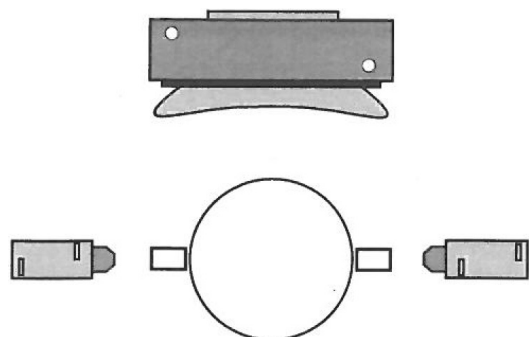
Slots and bars are numbered 1-2-3 etc... in CCW direction facing the commutator.



Remarks

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

(Draw and number leads and jumpers as received)



### 2-Pole Template

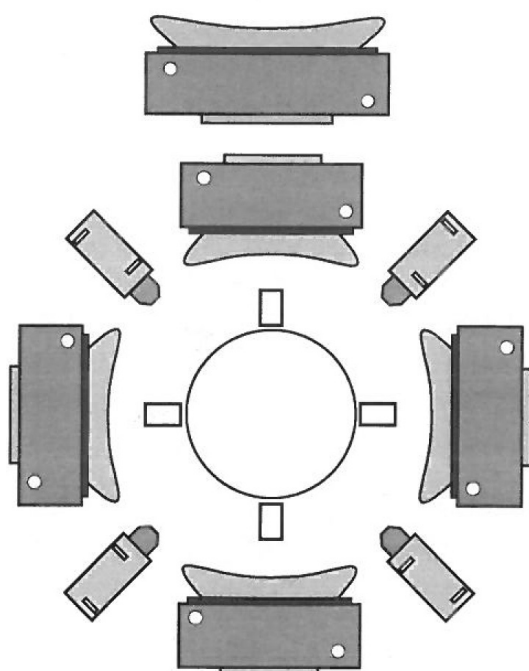
Quantity  
in series

Quantity  
in parallel

Number of poles

Number of interpoles

Number of series fields



### 4-Pole Template

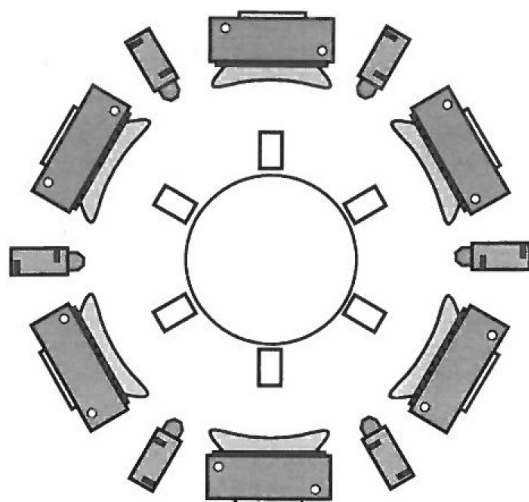
Quantity  
in series

Quantity  
in parallel

Number of poles

Number of interpoles

Number of series fields



### 6-Pole Template

Quantity  
in series

Quantity  
in parallel

Number of poles

Number of interpoles

Number of series fields

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