



MILLINGTON, TN

LITTLE ROCK, AR

Job Information

Job #: 141876

Date: February 12, 2020

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: West Memphis Steel

Motor#:

Name Plate Information

Manufacturer: Walker

Enclosure : Totally Enclosed
Wash down

Serial#:

Model#:

Service Factor:

Frame:

Horsepower/kW:

Rated RPM:

Armature

Volts

Amps

Fields

Volts

Amps

Winding Inspection

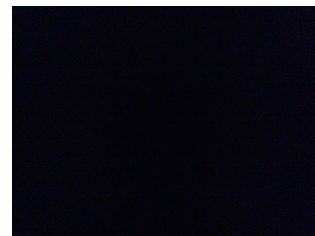
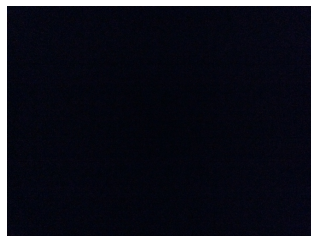
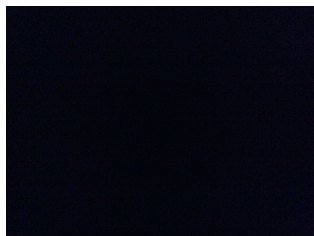
Identify winding disassembly & winding assembly.

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



MILLINGTON, TN

LITTLE ROCK, AR

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

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



MILLINGTON, TN

LITTLE ROCK, AR

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

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



MILLINGTON, TN

LITTLE ROCK, AR

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

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



MILLINGTON, TN

LITTLE ROCK, AR

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

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



MILLINGTON, TN

LITTLE ROCK, AR

Conclusion

Service Tech name: Kelly Felts

Service Tech signature:

Kelly Felts

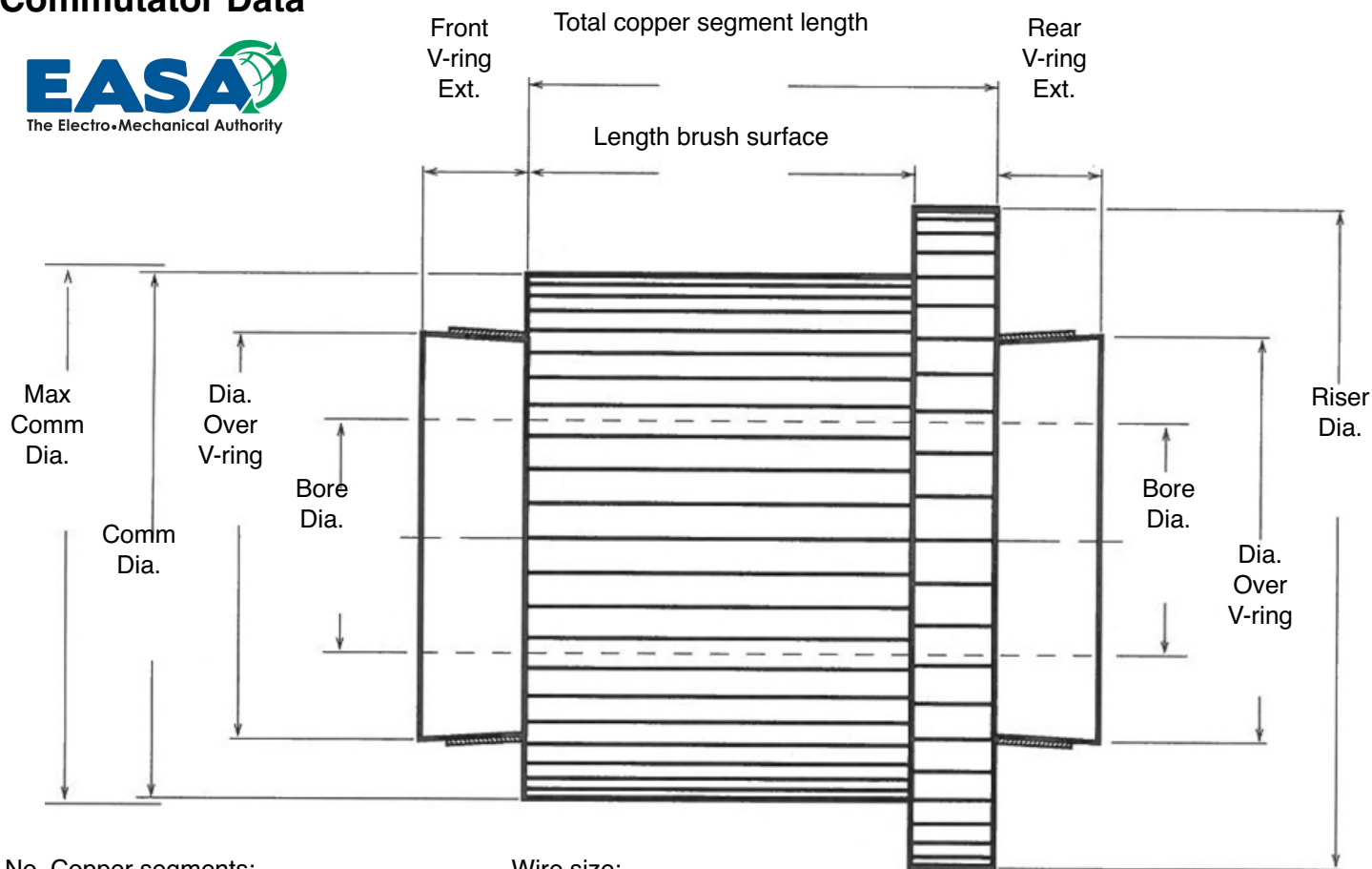
WEST TENNESSEE

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

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

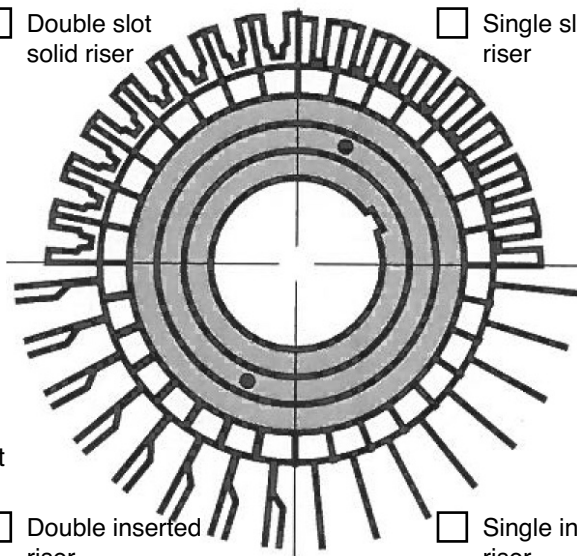
Keyway alignment with center line of: ☐ Mica ☐ Copper segment

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

☐ 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

CENTRAL ARKANSAS

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

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

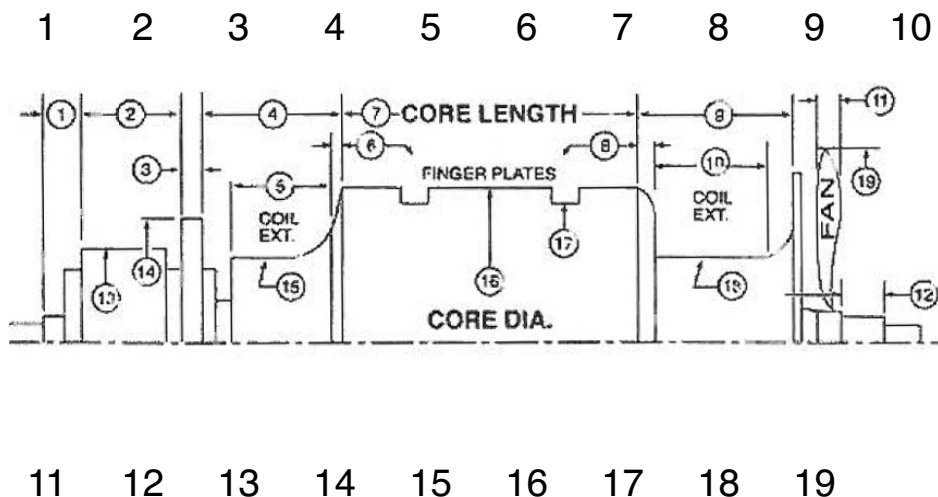
Compensating Winding

Wire size: Turns per slot:

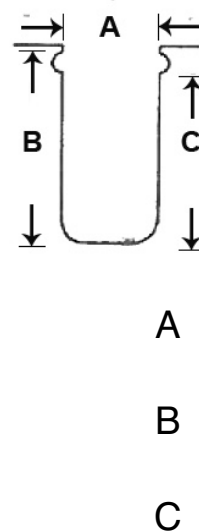
Interpoles: Yes

☐ 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:

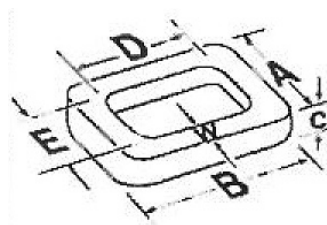
Field Coil Dimensions

TYPE A B C D E W

Shunt

Series

Interpoles



Manufacturer's Part Numbers

Lap Winding

Leads from slot 1 to bar:

Leads from

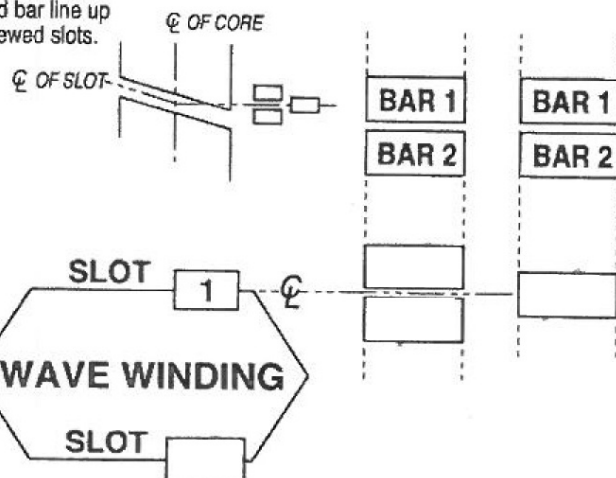
Slot to bar:

DC Machine Data Sheet (Continued)

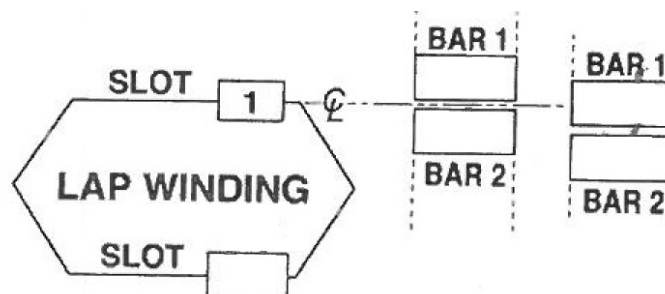
Field Coil Winding Data

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.



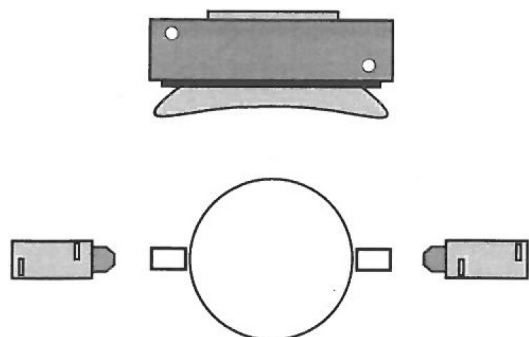
Slots and bars are numbered 1-2-3 etc... in CCW direction facing the commutator.



Remarks

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

(Draw and number leads and jumpers as received)



2-Pole Template

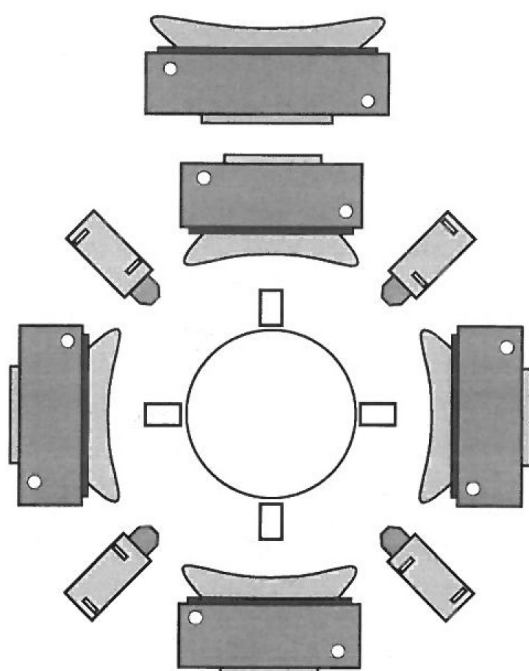
Quantity
in series

Quantity
in parallel

Number of poles

Number of interpoles

Number of series fields



4-Pole Template

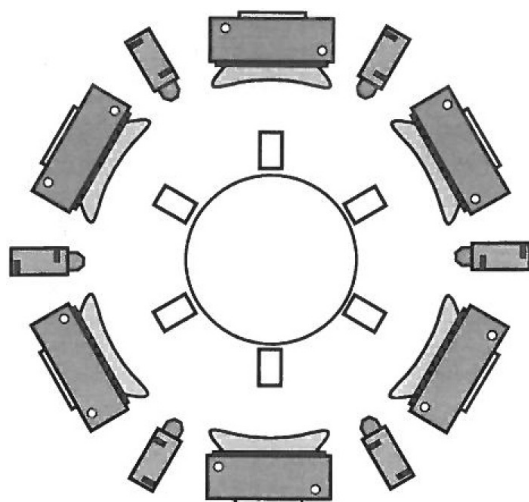
Quantity
in series

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

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