

Job Information

Job #	: 141877			Date:	February 12, 2020
Priority	: –	Authorized OT: N	10	Authorized by:	
Custom	er Information				
Name	: West Memphis Steel			Motor#:	
Name P	late Information				
Manufact	urer: Walker	Enclosure	:	Totally Enclosed Wash down	
Se	rial#:	Model#	:		
Service Fa	ictor:	Frame	:		
Horsepower	/kW:	Rated RPM	:		
	r	_	ſ		-
Armature	Volts	Fields		Volts	
	Amps			Amps	_

Winding Inspection

Identify winding disassembly & winding assembly.

Armature diagram

IP diagram

Flds diagram

Comm diagram





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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 D	C drop Test +/- 5% from avera	age; for an AC drop test +/- 10% from	ı 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 \	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 Volt	age:				
	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:

Kelly Felts

Service Tech signature:

Kelly Felts

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Commutator Data

	Front To V-ring Ext I	otal copper segment length	Rear V-ring ────► Ext	
The Electro-Mechanical Authority		Length brush surface		
Max Dia. Comm Over Uia. Dia. Comm Dia. Comm Dia.				Bore Dia. Dia. Over V-ring
				↓↓ ↓
No. Copper segments:	Wire	size:	Indicate Riser	Туре
Mica segment thickness:	Wires/riser	slot:	slot	Single slot solid
Equalizer size:	Equalizer/riser	slot:	ser	riser
Equalizer seq. on comm.:			¥ (
Commutator Type 🗌 Nut v-ring	g 🗌 Bolt v-	ring 🗌 Glassband 🛛 🕏	HII	川恒
Riveted*		ded*	HIII	
Other*		The second se	All	JAC
Shaft Diameter Keyway alignment with center line of	: 🗌 Mica	Copper segment	TH	ALL .
*If molded, riveted or other micrometer measure	surement of sha	ft diameter Double	e inserted	Single inserted riser
corresponding to the commutator bore diam	eter is required.	I	nserted riser thicknes	S:
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DC Machine Data Sheet



				The Electro+Mechanical Authomy
Armature Coil Data				Winding Type
Slots: Turns per coi	il: Coil per slot:			Shunt
Wire size: Wires in mult	: Wire type:	Wire weig	ht: Lbs.	Series
Bars: Slot span 1 to	o: Comm span 1 t	0:		Compound
No. of equalizers: Spar	1 to: Wire size	:		Interpoles: Yes
Knuckle: Standard Dou	Jble Co	ompensating Windin	ıg	
Wound: 🗌 Flat 🛛 Edg	ge Wire size:	Turns per slo	ot:	Compensating or Pole Face Winding
Coil: Left hand Rig	ht hand			Permanent Magnet
	5 6 7 8 CORE LENGTH FINGER PLATES CORE DIA.		Slot Dimensions A T B C L A A B	Insul. class: Temp. Rise: Duty: Wave Winding Leads from slot 1 to bar: Leads from Slot to bar:
11 12 13 14	15 16 17 18	19	С	
Field Coil Dimensions TYPE A B C Shunt Series Interpoles	C D E W	Manufacturer's	Part Numbers	Lap Winding Leads from slot 1 to bar: Leads from Slot to bar:
7030 Ryburn Drive 6812 L Millington, TN 38053 Little Phone 901-873-5300 Phone 6822 State	TRAL ARKANSAS .indsey Rd. Rock, AR 72206 501-375-9178 No-375-1254			



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DC Machine Data Sheet (Continued)



Field Coil Winding Data

Туре	No. Coils	No. Cir.	Turns Per Coil —	W Mult.	ire Size & Type	Lbs. Per Coil	25 Ohm Per Coil DC
Shunt							
Series							
Interpoles							
Slot and bar li	ne up o	05 0005					



Remarks

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



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