

FLECBON CORPORATION

CARBON BRUSH GRADE SELECTION



Technical Questionnaire

Based upon the recommendation of the international Electrotechnical Commission

- PLEASE READ**
- Where there is a line beside a question give the information requested.
 - Where alternatives are given, cross out the words or figures not applicable.
- BEFORE COMPLETING**
- The questions in red capital letters are of special importance.

Name & address of the Brush User: _____

Date: _____

1. Maker of Machine _____
2. Makers Type _____
3. Serial Number _____

4	Generator	Motor	DC	AC
	Rectified Current		Reversing	Non-Reversing

5. Converter

DC-AC	AC-DC
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	Rated	Operating	
		Normal	Maximum
6. SPEED rev/min			
7. VOLTAGE V.			
8. CURRENT A.			
9. POWER kw hp			

10. **APPLICATION** _____
11. **DUTY CYCLE** _____
12. Number of Phases _____
13. Frequency Hz _____
14. Number of Main Poles _____

15. Are Commutating Poles fitted?

Yes	No
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16. Are Compensating Windings Fitted?

Yes	No
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17. Excitation

Separate	Series	Shunt	Compound
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18. Construction

Open	Protected	Totally Enclosed
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19. Ambient Temperature °C _____

20. Relative Humidity % _____

21. Are oil vapours present?

Yes	No
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22. Corrosive Gases? (please specify) _____

23. Dust in Atmosphere? (please specify) _____

24. Vibration? _____

25. Amount of shaft axial play _____

26. **DIAMETER**

Commutator	Rings
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 mm/in _____

27.

LENGTH OF COMMUTATOR FACE	WIDTH OF RING
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 mm/in _____

28. Number of Commutator Segments _____

29. **IS MICA RECESSED?**

Yes	No
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30. **MATERIAL OF RINGS** _____

31. Are rings Helically grooved

Yes	No
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32. Position of

Commutator	Rings
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- | | |
|------------------|------------------|
| Between Bearings | Outside Bearings |
|------------------|------------------|

33. **BRUSHGEAR ENCLOSURE**

Totally enclosed	Open ventilated
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34. Are brushes lifted when machine is upto to speed?

Yes	No
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- If 'No' are rings short circuited?

At machine	At starter
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35. **CURRENT PER RINGS Amps** _____

AC	DC
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36. Working temperature

Commutator	Rings
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 °C _____

37. **SURFACE CONDITION**

Commutator	Rings				
Good	Polished	Dull	Smooth	Worn	Threaded
Uniform	Marked				

- Marking

Regular	Irregular	Burnt
Light	Medium	Dark

38. Date of last reconditioning of

Commutator	Rings
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39. **NUMBER OF BRUSH ARMS PER COMMUTATOR** _____

40. **NUMBER OF BRUSHES PER ARM** _____

41. **NUMBER OF RINGS** _____

42. **NUMBER OF BRUSHES PER RING** _____

43. **DIMENSIONS OF BRUSH mm/in.** t. _____ w. _____ h. _____

44. **CONTACT BEVEL ANGLE** _____

45. **IS BRUSH SUB-DIVIDED?**

Yes	No
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46. Are all brushes on each arms

In-Line	Staggered Circumferentially
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47. **BRUSH SPRING FORCE** daN(kgf) lb.f _____

- Adjustable?

Yes	No
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 Force Range _____

48. **MAKER & GRADE OF PRESENT BRUSH USED** _____

49. Average brush wear (state units used) _____

50. **WHAT (IF ANY) TROUBLE IS EXPERIENCED?** _____