

CA50

TECHNICAL DATA

Material: Silver graphite
Content: Silver & graphite powder
Application: Slip ring

Values (as guideline)

Max current density:	20 A/cm ²	Continuously
Peak current:	45 A/cm ²	3 min at 18 m/s
Max peripheral speed:	50 m/s	
Brush pressure:	200-300 cN/cm ²	

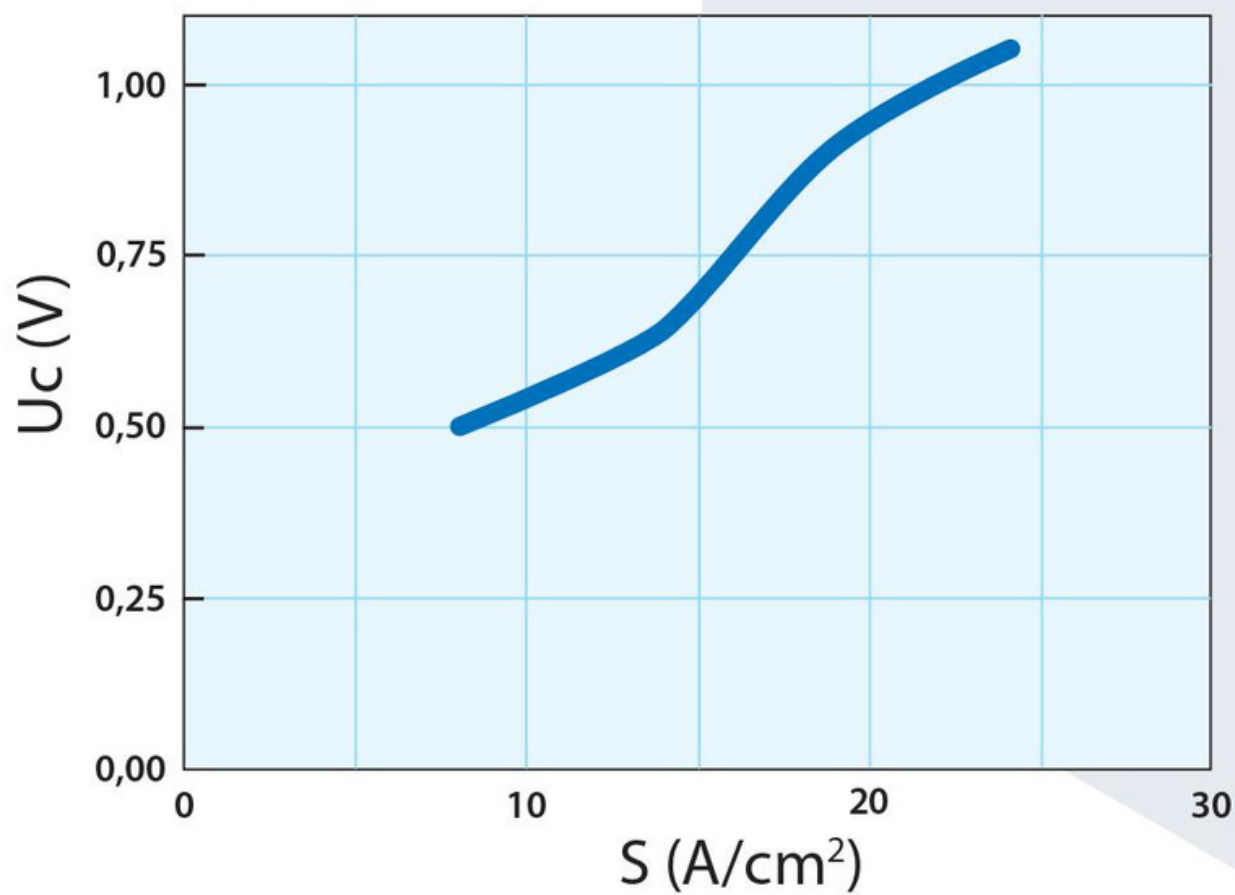
Material data (typical values)

Bulk density:	3.1 g/cm ³	DIN IEC 413.204 & ASTM C830
Rockwell hardness:	80 HR _{10/60}	DIN IEC 413.303
Flexural strength:	30 N/mm ²	DIN IEC 413.501
Specific electrical resistivity:	3.0 μΩm	DIN IEC 413.402

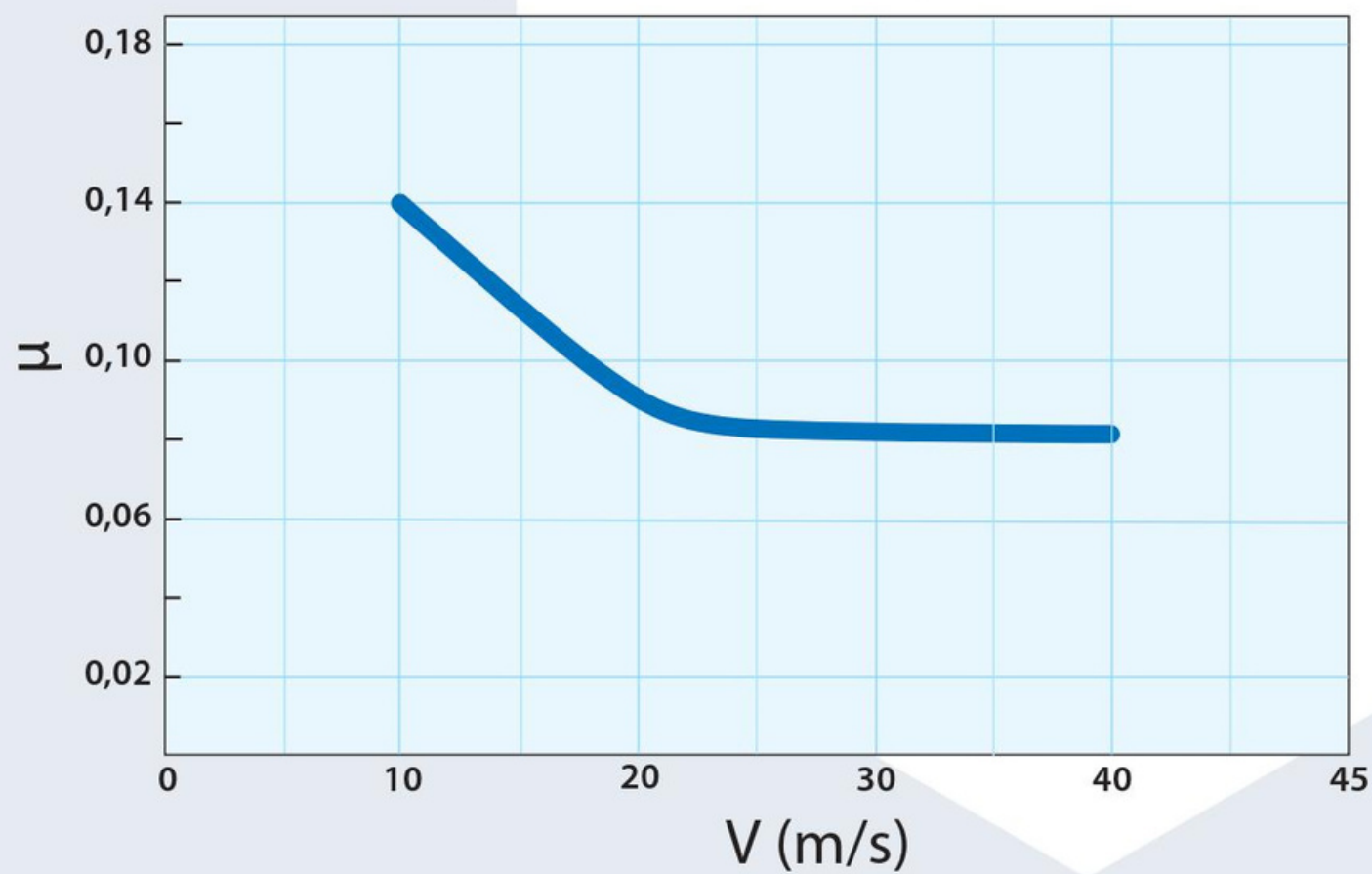


Operational characteristics

Voltage drop (U_c) between brush & slip ring at 18 m/s



Coefficient of friction (μ) at a current density of 14 A/cm²



Test-rig and set-up according to IEC standard 60773

Experimental conditions

Slip ring material: Phosphor bronze (PB1)
Brush pressure: 225 cN/cm²
Temperature: 50-80 °C
Current: AC 50 Hz

This data sheet is intended to provide general information and are not guaranteed specific properties in field applications. Figures may vary depending on environment and type of application.

MSDS

According to KEMI, the Swedish Chemicals Agency, carbon brushes, including metal graphite brushes, are classified in the REACH regulation as articles and do not require a Materials Safety Data Sheet.