

MECHANICAL DATA

Bulb	T-9
Base	B8-26, Small Wafer Octal with Sleeve, 8-Pin or Low Loss Phenolic Small Wafer Octal with External Barriers and Sleeve, 8-Pin
Outline	9-12
Basing	8N
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 ($\pm 5\%$) Volts
Heater Current	800 Ma
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	200 Volts
Heater Positive with Respect to Cathode	25 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

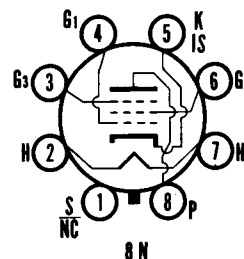
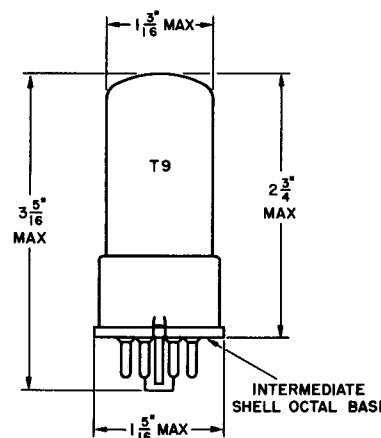
Grid No. 1 to Plate	0.70 μmf
Grid No. 3 to Plate	3.80 μmf
Grid No. 1 Input: g_1 to $(g_2 + g_3 + p + h + k)$	12.0 μmf
Grid No. 3 Input: g_3 to $(g_2 + g_1 + p + h + k)$	6.0 μmf
Output: p to $(g_1 + g_2 + g_3 + h + k)$	6.5 μmf
Grid No. 1 to Grid No. 3	0.65 μmf

RATINGS (Absolute Maximum)

DC Plate Voltage	250 Volts	Max.
Positive DC Grid No. 3 Voltage	250 Volts	Max.
Negative DC Grid No. 3 Voltage	250 Volts	Max.
Positive DC Grid No. 2 Voltage	150 Volts	Max.
Negative DC Grid No. 1 Voltage	100 Volts	Max.
Peak Positive Plate Voltage	500 Volts	Max.
Peak Positive Grid No. 1 Voltage	30 Volts	Max.
Peak Positive Grid No. 2 Voltage	150 Volts	Max.
Plate Dissipation	8.0 Watts	Max.
Grid No. 2 Dissipation	2.0 Watts	Max.
Grid No. 3 Dissipation	2.0 Watts	Max.
DC Cathode Current	80 Ma	Max.
Peak Cathode Current ¹	600 Ma	Max.
Positive DC Grid No. 1 Current	5.0 Ma	Max.
External Grid No. 1 Circuit Resistance		
Fixed Bias Operation	0.5 Megohm	Max.
Bulb Temperature (Hottest Point)	130 Degrees C	

QUICK REFERENCE DATA

The Sylvania Type 6888 is a dual control, computer pentode designed for long life and low failure rates. It is utilized in pulse amplifier, core driver and coincidence circuits.



**SYLVANIA ELECTRIC
PRODUCTS INC.**

**RADIO TUBE DIVISION
EMPORIUM, PA.**

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PAGE 1 OF 9

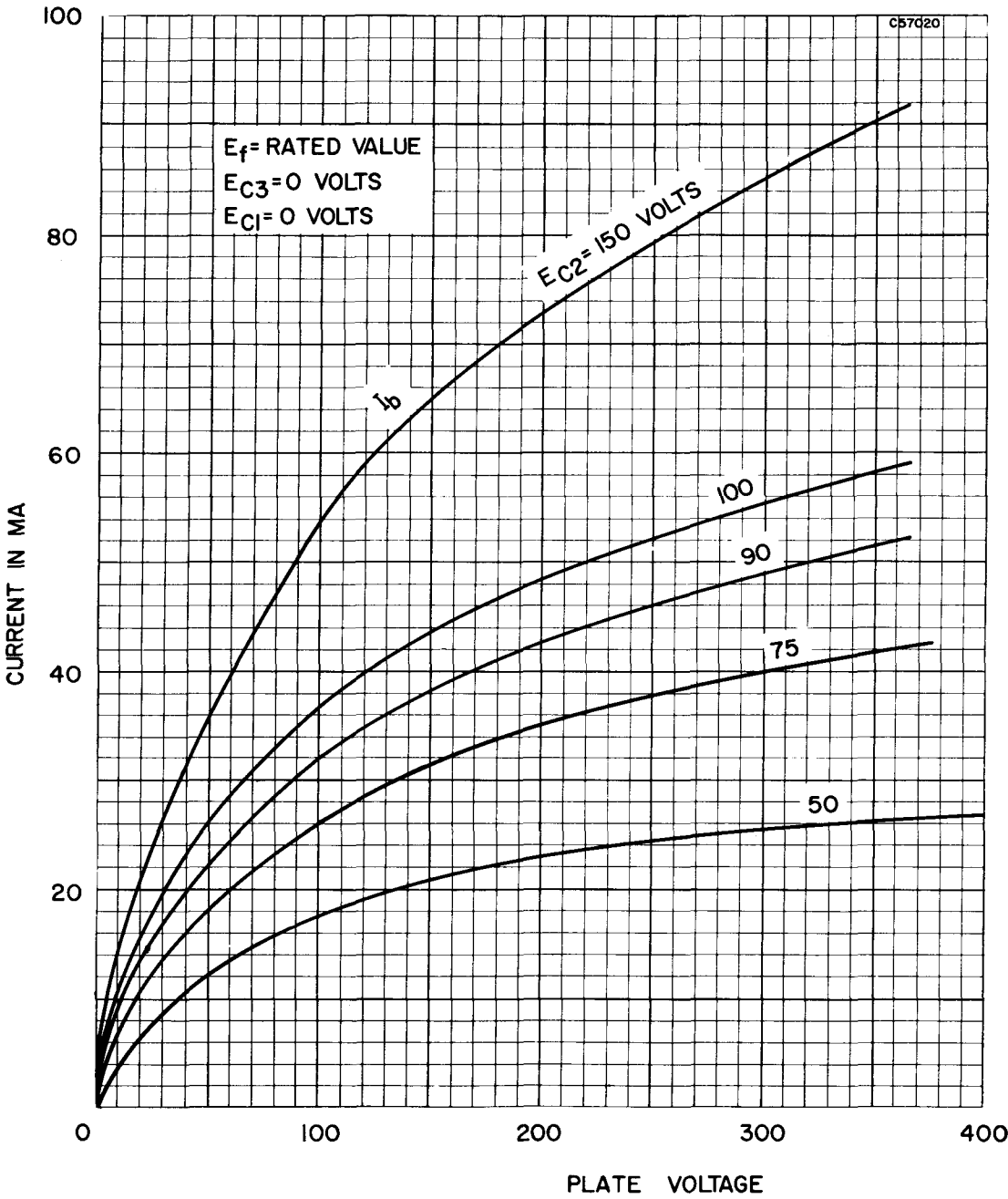
AVERAGE CHARACTERISTICS

Plate Voltage	150 Volts
Grid No. 3 Voltage	0 Volts
Grid No. 2 Voltage	90 Volts
Grid No. 1 Voltage ²	
Plate Current	37.5 Ma
Grid No. 2 Current	19 Ma
Grid No. 1 Cutoff Voltage	
Eb = 150 Vdc; Ec2 = 90 Vdc; Ec3 = 0; Ec1/Ib = 30 μ a	-13.8 Volts
Grid No. 1 Cutoff Voltage	
Eb = 150 Vdc; Ec2 = 90 Vdc; Ec3 = 0; Ec1/Ib = 2.5 ma	-9.4 Volts
Grid No. 3 Cutoff Voltage	
Eb = 150 Vdc; Ec1 = 0; Ec2 = 90 Vdc; Ec3/Ib = 2.0 ma	-8.6 Volts
Triode Amplification Factor	
Eb = Ec2 = 90 Vdc; Plate and Grid No. 2 Tied;	
Ec1 = -2.0 Vdc; Ec3 = 0	10
Tetrode Cutoff Voltage	
Eb = Ec3 = 250 Vdc; Grid No. 3 and Plate Tied;	
Ec2 = 90 Vdc; Ec1/Ib = 2.0 ma	-11.5 Volts
Pulse Plate Current	
Eb = 150 Vdc; Ec2 = 90 Vdc; Ec3 = +10 Vdc; Ec1 = +10 v	
tp = 5 μ sec; prr = 2000 pps	145 Ma
Pulse Screen Current	
Eb = 150 Vdc; Ec2 = 90 Vdc; Ec3 = +10 Vdc; Ec1 = +10 v	
tp = 5 μ sec; prr = 2000 pps	17 Ma

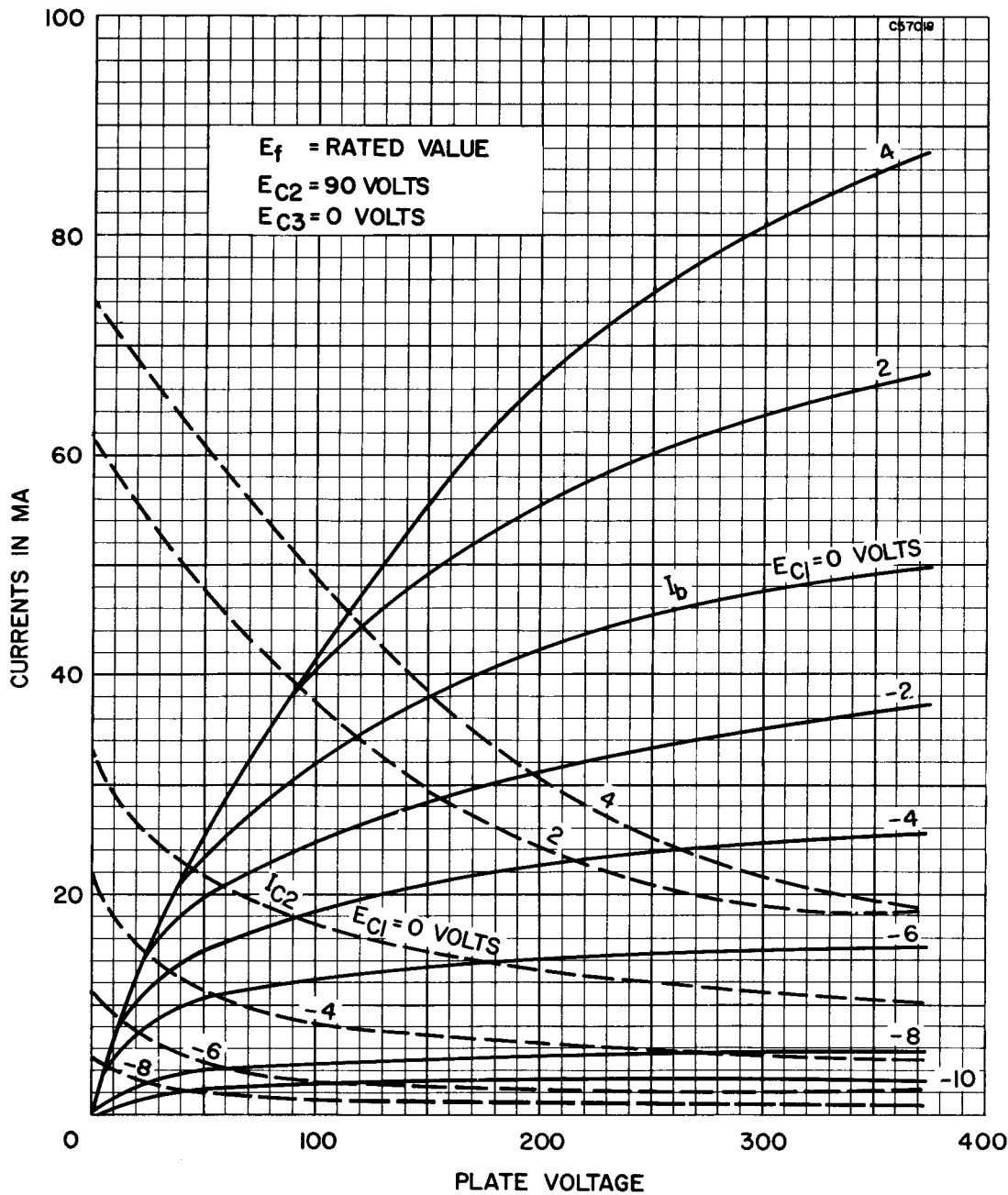
NOTES:

1. This rating applies to a current pulse whose duration is 0.1 μ sec, whose duty factor is 20% and the averaging time of which is 1.0 milsec.
2. Tie grid No. 1 to +90 Vdc through a 0.47 megohm resistor.

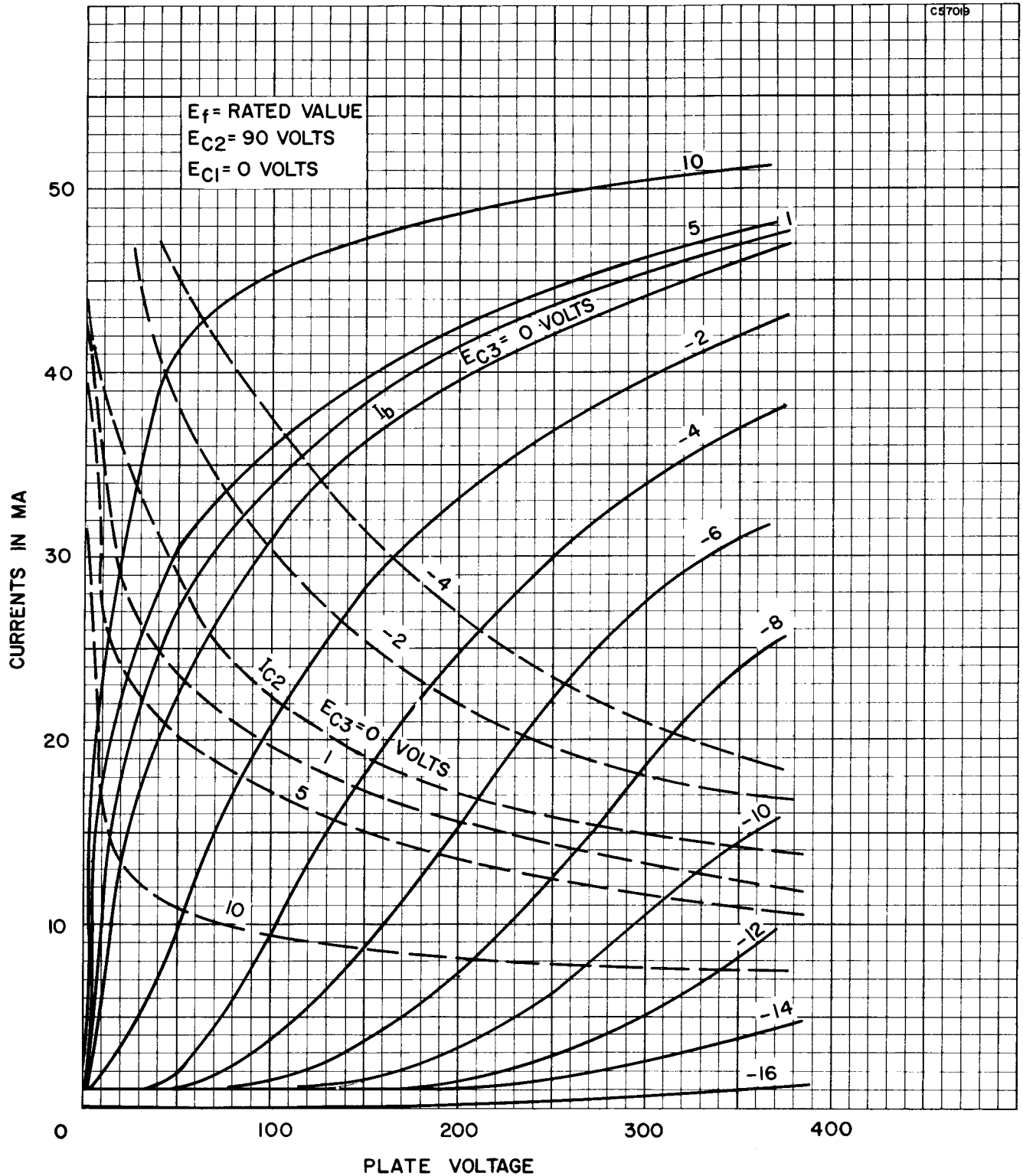
AVERAGE PLATE CHARACTERISTICS



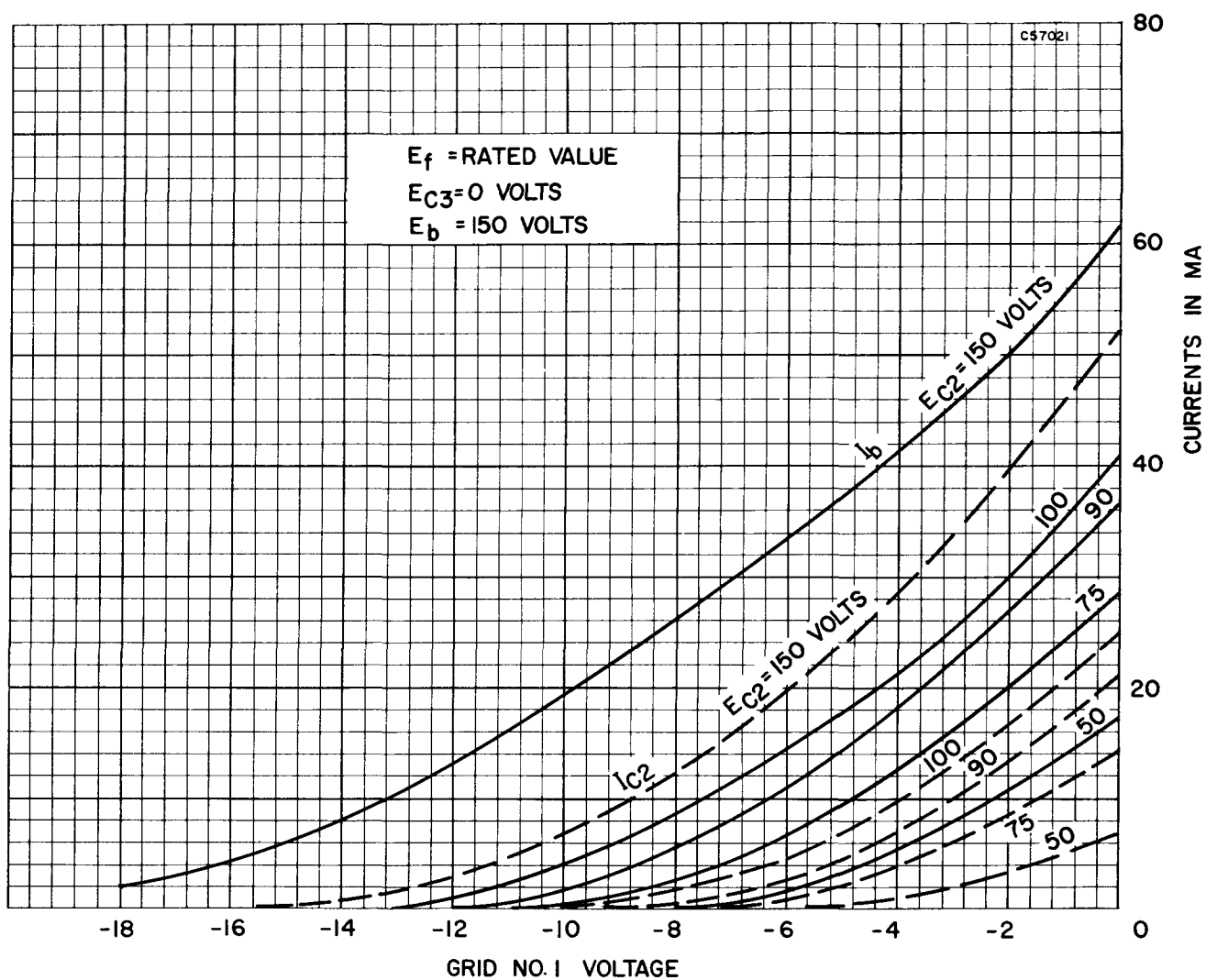
AVERAGE PLATE CHARACTERISTICS



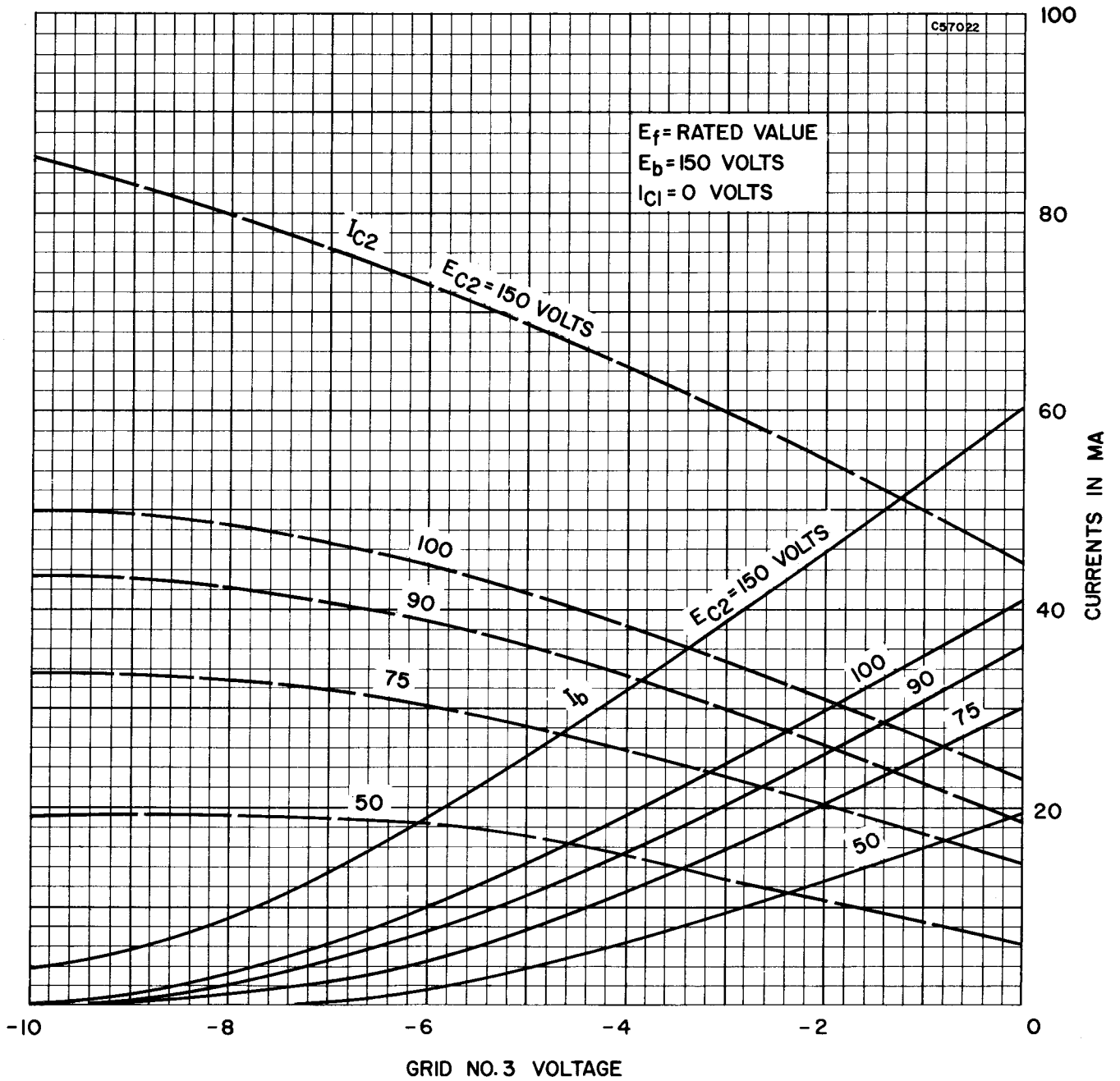
AVERAGE PLATE CHARACTERISTICS



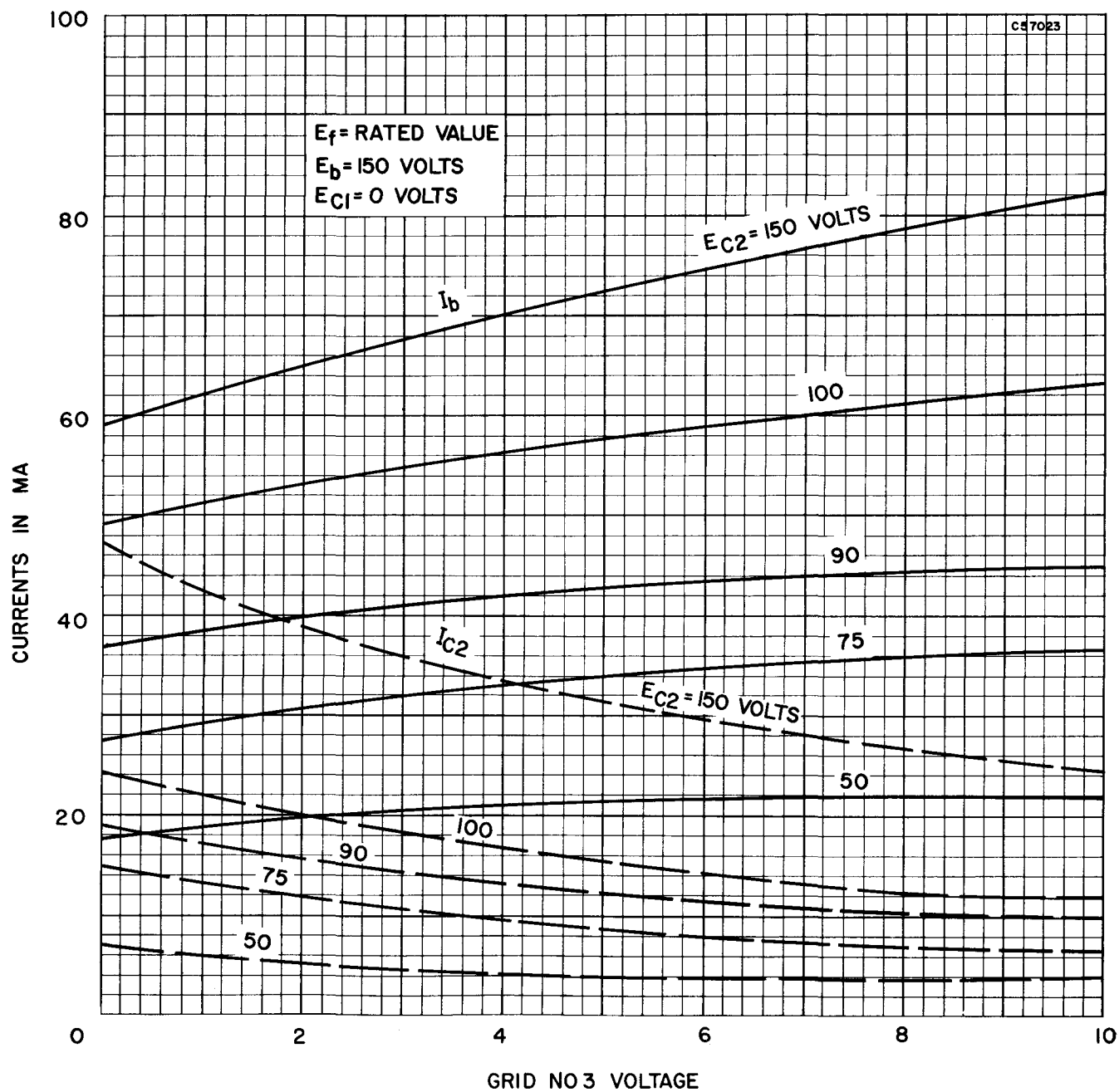
AVERAGE TRANSFER CHARACTERISTICS



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AVERAGE CHARACTERISTICS

