



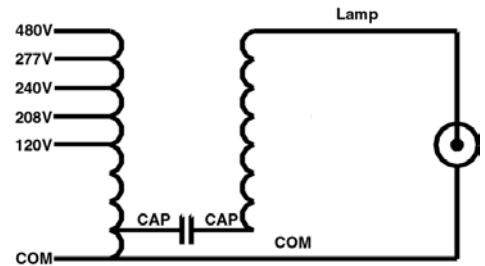
HOWARD INDUSTRIES, INC.
Magnetic Ballast Products Division

Model: M1000-81C-211
Standard Metal Halide

1000 Watts M-47
60 Hz Hz CWA

Input Volts		120	208	240	277	480
Circuit Type	CWA					
Power Factor	0.98					
Regulation						
Line Volts	±10					
Lamp Watts	- 10 % + 10 %					
Line Current (Amps)						
Operating		8.8	5.3	4.4	3.8	2.2
Open Circuit		4.76	3.37	2.46	2.04	1.26
Starting		5.57	5.68	5.61	5.56	5.66
Recommended Fuse		25	15	15	9	6
UL Temperature Ratings						
Insulation Class	H(180°C)					
Coil Temperature Code		1029E	1029C	1029B	1029B	1029D
Benchtop Coil Rise Primary		94	82	75	76	79
Benchtop Coil Rise Secondary		81	-	-	-	87
Input Watts		1099	1108	1083	1081	1083
NOM Open Circuit Volts	425					
Current Crest Factor	1.55					
Input Voltage at Lamp Dropout		65	108	136	150	260
Min Ambient Starting Temp.	-20°F -30°C					
High Potential Test (Volts)						
1 Minute	2000					
1 Second	2400					
Open Circuit Voltage Test (Volts)						
Open Circuit Voltage	382 - 468					
Input Current	min	3.30	2.30	1.70	1.40	0.90
	max	5.55	3.90	2.85	2.35	1.50
Short Circuit Current Test (Amps)						
Secondary Current	5.1 - 6.3					
Input Current	min	4.80	2.70	2.40	2.05	1.15
	max	8.00	4.50	4.00	3.50	1.90
Core and Coil Specifications						
Dimension A"	3.0					
Dimension B"	4.95					
Weight (lbs.)	21.5					
Lead Lengths (in)	12					
Capacitor Specifications						
Microfarads	24					
Volts (min.)	480					
	Oval OIL Filled DRY Film					
Case Size (in.)	1.75 Not Available					
Height (in.)	3.88					
Temp Rating °C	90					
Starter Specifications						
Model Number	Not Used					
	BTL					
Temp Rating °C						

Wiring Diagram Number
1091-912000-018



Outside Dimensions Drawing
1080-046467-000

ISO-View of Core Coil
1091-912002-010

Oil Capacitor Can Drawing
1011-007500-003

Dry Capacitor Can Drawing

Starter Case Drawing None



Rev. Date: New 1/3/05

Test Ref.: Validation/CTD

Specifications subject to change without notice.

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