



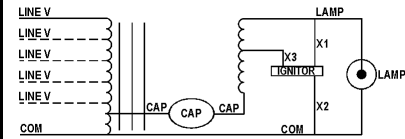
HOWARD INDUSTRIES, INC.  
Magnetic Ballast Products Division

Model: **S0400-81C-211**  
Standard High Pressure Sodium

400 Watts S51  
60 Hz CWA

<b>Input Volts</b>		120	208	240	277	480
<b>Circuit Type</b>	CWA					
<b>Power Factor</b>	0.98					
<b>Regulation</b>						
Line Volts	± 10 %					
Lamp Watts	Within Trapezoid					
<b>Line Current (Amps)</b>						
Operating		3.85	2.20	1.95	1.75	0.95
Open Circuit		2.07	1.14	1.02	0.96	0.51
Starting		3.34	1.93	1.67	1.46	0.80
Recommended Fuse		10	6	6	5	3
<b>UL Temperature Ratings</b>						
Insulation Class	H (180°C)					
Coil Temperature Code		D	C	C	C	C
Benchtop Coil Rise Primary		87	83	83	84	80
Benchtop Coil Rise Secondary		83	-	-	-	80
<b>Input Watts</b>		472	472	475	473	478
<b>NOM Open Circuit Volts</b>	200					
<b>Current Crest Factor</b>	1.66					
<b>Input Voltage at Lamp Dropout</b>		70	130	141	165	316
<b>Min Ambient Starting Temp.</b>	-40°F -40°C					
<b>High Potential Test (Volts)</b>						
1 Minute	2000					
1 Second	2400					
<b>Open Circuit Voltage Test (Volts)</b>						
Open Circuit Voltage	180 - 220					
Input Current	min	1.55	0.85	0.75	0.70	0.40
	max	2.60	1.45	1.25	1.20	0.65
<b>Short Circuit Current Test (Amps)</b>						
Secondary Current	6.0 - 7.4					
Input Current	min	2.35	1.35	1.15	1.00	0.55
	max	3.90	2.25	1.95	1.70	0.95
<b>Core and Coil Specifications</b>						
Dimension A"	2.62					
Dimension B"	4.25					
Weight (lbs.)	14.8					
Lead Lengths (in)	12					
<b>Capacitor Specifications</b>						
Microfarads	55					
Volts (min.)	240					
	<b>Oval OIL Filled</b>	<b>DRY Film</b>				
Case Size (in.)	1.75	1.8				
Height ( in.)	3.87	4.21				
Temp Rating °C	90	100				
<b>Starter Specifications</b>						
Model Number	ST2000					
BTL	20					
Temp Rating °C	105					

Wiring Diagram Number  
1091-912000-018



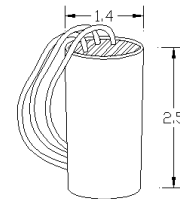
Outside Dimensions Drawing  
1080-046600-000

ISO-View of Core Coil  
1091-912002-002

Oil Capacitor Can Drawing  
1011-007500-003

Dry Capacitor Can Drawing  
1012-007500-001

Starter Case Drawing 1091-912001-001



Rev. Date: NEW 9/16/04

Test Ref.: PILOT

Specifications subject to change without notice.

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