



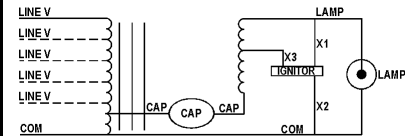
HOWARD INDUSTRIES, INC.
Magnetic Ballast Products Division

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

400 Watts S51
60 Hz CWA

Input Volts		120	208	240	277	480
Circuit Type	CWA					
Power Factor	0.98					
Regulation						
Line Volts	± 10 %					
Lamp Watts	Within Trapezoid					
Line Current (Amps)						
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
UL Temperature Ratings						
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
Input Watts		472	472	475	473	478
NOM Open Circuit Volts	200					
Current Crest Factor	1.66					
Input Voltage at Lamp Dropout		70	130	141	165	316
Min Ambient Starting Temp.	-40°F -40°C					
High Potential Test (Volts)						
1 Minute	2000					
1 Second	2400					
Open Circuit Voltage Test (Volts)						
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
Short Circuit Current Test (Amps)						
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
Core and Coil Specifications						
Dimension A"	2.62					
Dimension B"	4.25					
Weight (lbs.)	14.8					
Lead Lengths (in)	12					
Capacitor Specifications						
Microfarads	55					
Volts (min.)	240					
	Oval OIL Filled	DRY Film				
Case Size (in.)	1.75	1.8				
Height (in.)	3.87	4.21				
Temp Rating °C	90	100				
Starter Specifications						
Model Number	ST2000					
BTL	20					
Temp Rating °C	105					

Wiring Diagram Number
1091-912000-018



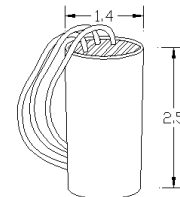
Outside Dimensions Drawing
1080-046600-000

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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