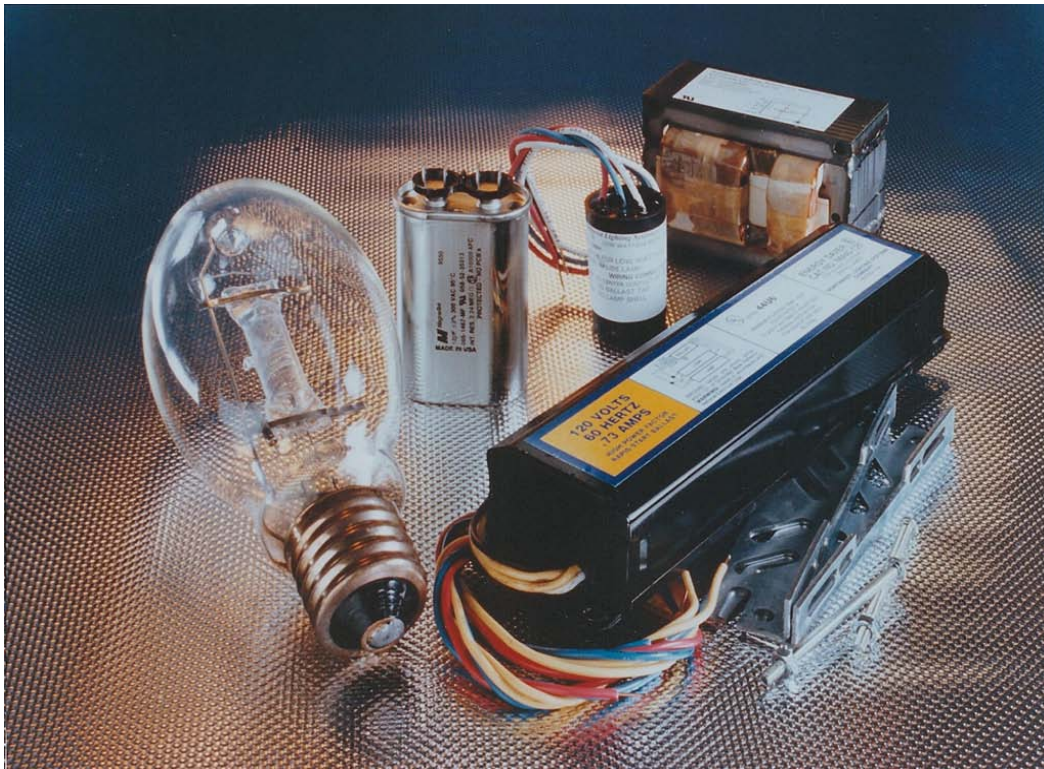




HID BALLASTS

Pulse Start Metal Halide



13 Columbia Dr. #12 Amherst, NH 03031

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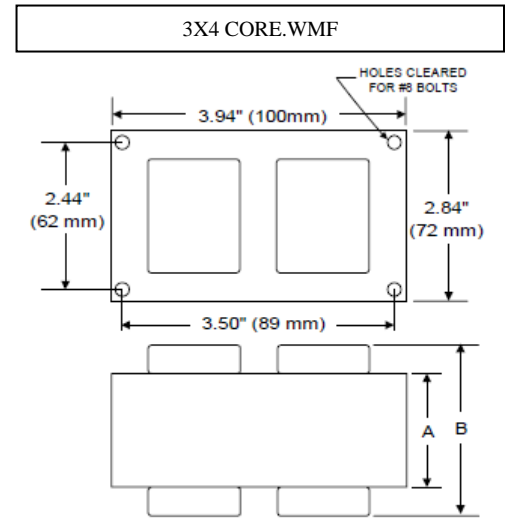
Table of Contents

<u>Ballast Specification</u>	<u>Page</u>
50W Quad PS	<u>3</u>
70W Quad PS	<u>4</u>
100W Quad PS	<u>5</u>
125W Quad PS	<u>6</u>
150W Quad PS	<u>7</u>
175W Quad PS	<u>8</u>
200W Quad PS	<u>9</u>
200W 480V PS	<u>10</u>
250W Quad PS	<u>11</u>
250W 480V PS	<u>12</u>
320W Quad PS	<u>13</u>
320W 480V PS	<u>14</u>
350W Quad PS	<u>15</u>
350W 480V PS	<u>16</u>
400W Quad PS	<u>17</u>
400W 480V PS	<u>18</u>
450W Quad PS	<u>19</u>
450W 480V PS	<u>20</u>
575W Quad PS	<u>21</u>
575W 480V PS	<u>22</u>
750W Quad PS	<u>23</u>
750W 480V PS	<u>24</u>
875W Quad PS	<u>25</u>
875W 480V PS	<u>26</u>
1000W Quad PS	<u>27</u>
1000W 480V PS	<u>28</u>

BALLAST SPECIFICATIONS

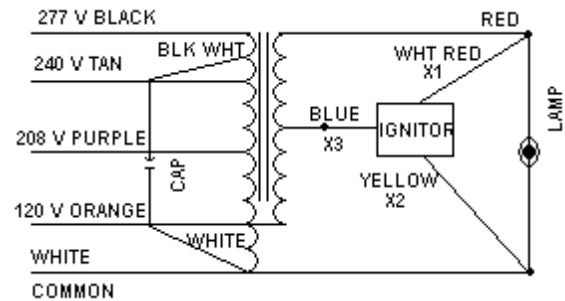
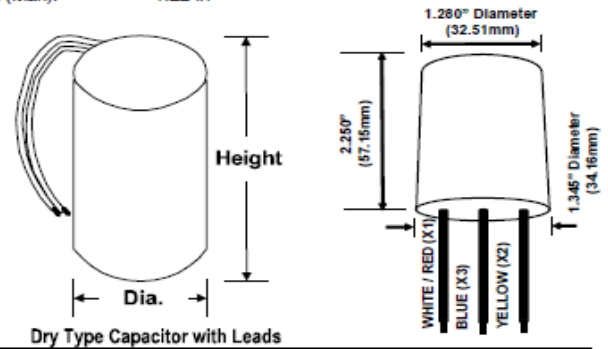
50W M110
Pulse Start Metal Halide
S50M-4
60 Hz HX-HPF

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	0.60	0.35	0.30	0.25
Open Circuit	1.20	0.65	0.60	0.50
Starting	0.60	0.35	0.30	0.25
Recommended Fuse (Amps)	3	2	2	2
Regulation				
Line Volts	±5%	±5%	±5%	±5%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	A	A	A	A
Benchtop Coil Rise	66.6	64.7	64.3	70.7
Power Factor (Min)	90%	90%	90%	90%
Input Watts	68 W	68 W	68 W	68 W
Efficiency				
NOM. Open Circuit Voltage	265	265	265	265
Input Voltage At Lamp Dropout	85	150	170	195
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V	2,000 V	2,000 V	2,000 V
1 Second	2,500 V	2,500 V	2,500 V	2,500 V
Open Circuit Voltage Test (V)	235 – 295	235 – 295	235 – 295	235 – 295
Short Circuit Current Test (A)				
Min	0.65	0.65	0.65	0.65
Secondary Current				
Max	0.85	0.85	0.85	0.85
Min	0.40	0.20	0.15	0.15
Input Current				
Max	0.75	0.40	0.35	0.35
CORE and COIL Specifications				
Dimension (A)	1.05 in	1.05 in	1.05 in	1.05 in
Dimension (B)	2.45 in	2.45 in	2.45 in	2.45 in
Weight	3.5 lbs	3.5 lbs	3.5 lbs	3.5 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	6.0 uf	6.0 uf	6.0 uf	6.0 uf
Volts (Min)	280 V	280 V	280 V	280 V



Capacitor:	CA6280DL	Ignitor:	SMH-2
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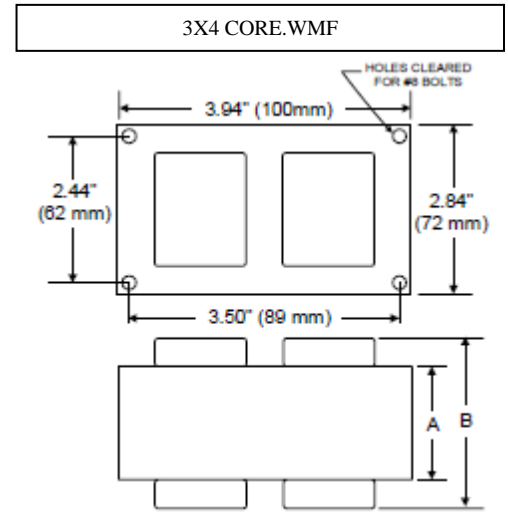
Microfarads:	6.0 uf	Case Temp (Max):	105 °C
Volts (Max):	330 V	BTL Distance (Max):	2 ft
Case Temp (Max):	100 °C		
Height (Max):	2.76 in		
Dia (Max):	1.22 in		



BALLAST SPECIFICATIONS

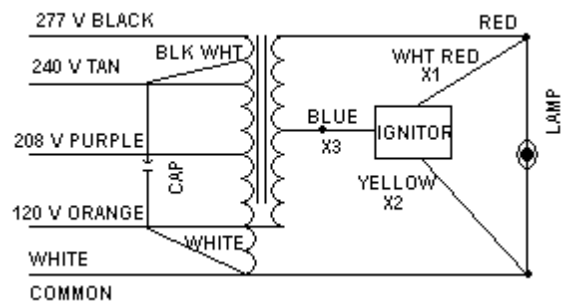
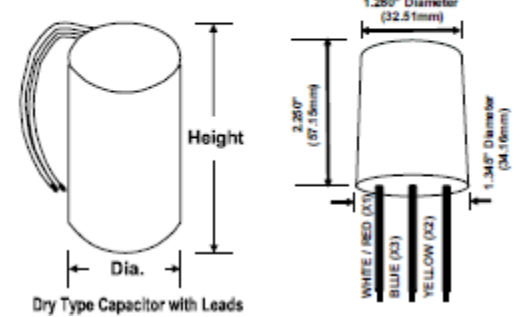
70 W M98
Pulse Start Metal Halide
S70M-4
60 Hz HX-HPF

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	0.80	0.45	0.40	0.35
Open Circuit	1.65	0.95	0.80	0.70
Starting	0.75	0.55	0.50	0.35
Recommended Fuse (Amps)	4	3	2	2
Regulation				
Line Volts	±5%	±5%	±5%	±5%
Lamp Watts	±8%	±8%	±8%	±8%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	A	A	A	A
Benchtop Coil Rise	60.9	63.0	62.4	64.1
Power Factor (Min)	90%	90%	90%	90%
Input Watts	92 W	92 W	92 W	92 W
Efficiency	76%	76%	76%	76%
NOM. Open Circuit Voltage	250	250	250	250
Input Voltage At Lamp Dropout	85	140	165	185
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	1,600 V	1,600 V	1,600 V	1,600 V
1 Second	1,900 V	1,900 V	1,900 V	1,900 V
Open Circuit Voltage Test (V)	225 – 275	225 – 275	225 – 275	225 – 275
Short Circuit Current Test (A)				
Min	0.95	0.95	0.95	0.95
Secondary Current				
Max	1.20	1.20	1.20	1.20
Min	0.45	0.25	0.25	0.20
Input Current				
Max	0.85	0.50	0.45	0.40
CORE and COIL Specifications				
Dimension (A)	1.45 in	1.45 in	1.45 in	1.45 in
Dimension (B)	2.85 in	2.85 in	2.85 in	2.85 in
Weight	4.6 lbs	4.6 lbs	4.6 lbs	4.6 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	8.0 uf	8.0 uf	8.0 uf	8.0 uf
Volts (Min)	280 V	280 V	280 V	280 V



Capacitor: CA8300DL Ignitor: SMH-2

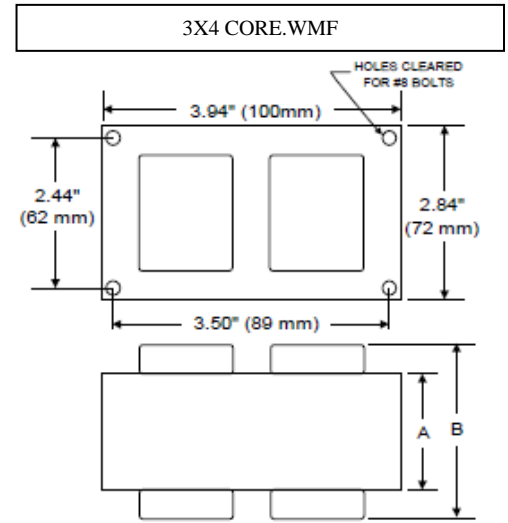
Microfarads: 8.0 uf Case Temp (Max): 105 °C
 Volts (Max): 280 V BTL Distance (Max): 2 ft
 Case Temp (Max): 100 °C
 Height (Max): 2.76 in
 Dia (Max): 1.21 in



BALLAST SPECIFICATIONS

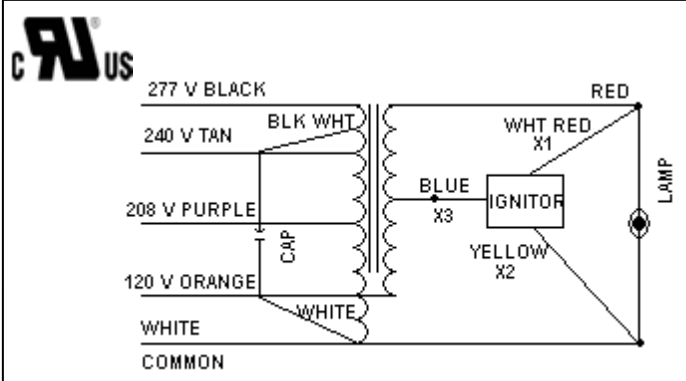
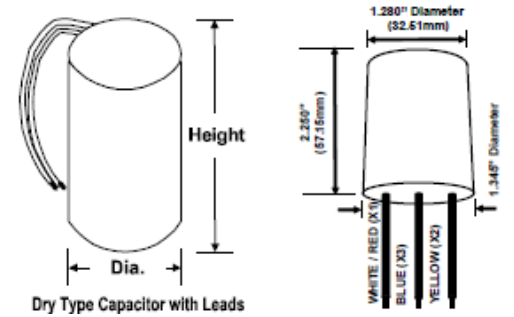
100W M90
Pulse Start Metal Halide
S100M-4
60 Hz HX-HPF

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	1.10	0.65	0.55	0.50
Open Circuit	2.60	1.50	1.30	1.15
Starting	1.00	0.60	0.50	0.45
Recommended Fuse (Amps)	7	4	4	3
Regulation				
Line Volts	±5%	±5%	±5%	±5%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	A	A	A	A
Benchtop Coil Rise	70.1	69.8	65.9	71.8
Power Factor (Min)				
Input Watts	90%	90%	90%	90%
Efficiency	125W	125W	125W	125W
NOM. Open Circuit Voltage	270	270	270	270
Input Voltage At Lamp Dropout	80	140	160	185
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	1,600V	1,600V	1,600V	1,600V
1 Second	1,900V	1,900V	1,900V	1,900V
Open Circuit Voltage Test (V)	240 – 300	240 – 300	240 – 300	240 – 300
Short Circuit Current Test (A)				
Min	1.20	1.20	1.20	1.20
Secondary Current				
Max	1.50	1.50	1.50	1.50
Min	0.40	0.25	0.20	0.15
Input Current				
Max	0.75	0.45	0.40	0.35
CORE and COIL Specifications				
Dimension (A)	1.70 in	1.70 in	1.70 in	1.70 in
Dimension (B)	3.10 in	3.10 in	3.10 in	3.10 in
Weight	5.2 lbs	5.2 lbs	5.2 lbs	5.2 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	12.0 uf	12.0 uf	12.0 uf	12.0 uf
Volts (Min)	280V	280V	280V	280V



Capacitor: CA10280DL Ignitor: SMH-2

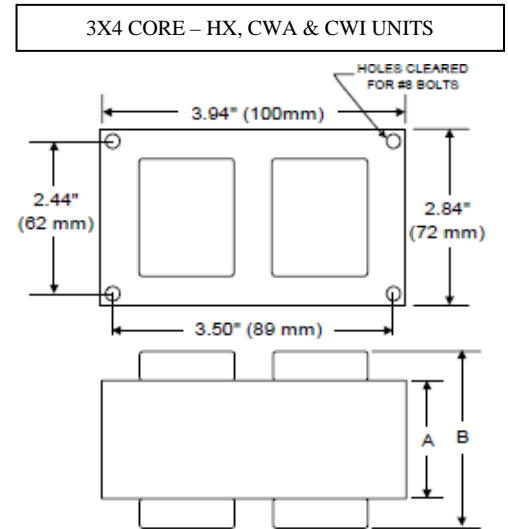
Microfarads: 12.0 uf Case Temp (Max): 105 °C
 Volts (Max): 330 V BTL Distance (Max) 2 ft
 Case Temp (Max) 100 °C
 Height (Max): 2.76 in
 Dia (Max): 1.62 in



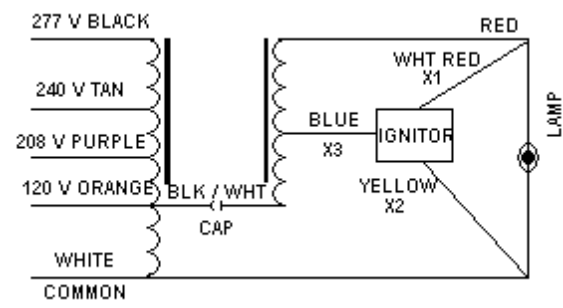
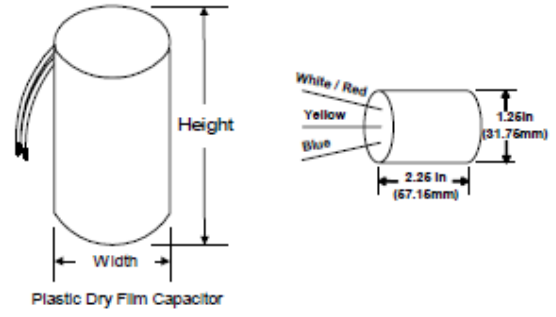
BALLAST SPECIFICATIONS

125W M150
Pulse Start Metal Halide
S125M-4/PS
60 Hz CWA

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	1.25	0.75	0.65	0.55
Open Circuit	0.80	0.45	0.40	0.35
Starting	0.80	0.45	0.40	0.35
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±10%	±10%	±10%	±10%
UL Temperature Ratings				
Insulation Class	H	H	H	H
Coil Temperature Code	A	A	A	A
Benchtop Coil Rise	66.5	65.0	62.7	61.9
Input Watts	150W	150W	150W	150W
NOM. Open Circuit Voltage	225	225	225	225
Power Factor	90%	90%	90%	90%
Current Crest Factor	1.60	1.60	1.60	1.60
Input Voltage At Lamp Dropout	80	140	160	185
MIN. Ambient Starting Temp.	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	1,600 V	1,600 V	1,600 V	1,600 V
1 Second	2,000 V	2,000 V	2,000 V	2,000 V
Open Circuit Voltage Test (V)	200 – 250	200 – 250	200 – 250	200 – 250
Short Circuit Current Test (A)				
Min	1.45	1.45	1.45	1.45
Secondary Current				
Max	1.80	1.80	1.80	1.80
Min	0.50	0.30	0.25	0.20
Input Current				
Max	0.85	0.50	0.45	0.35
Recommended Fuse (Amps)	4	3	2	2
CORE and COIL Specifications				
Dimension (A)	1.70 in	1.70 in	1.70 in	1.70 in
Dimension (B)	3.15 in	3.15 in	3.15 in	3.15 in
Weight	5.4 lbs	5.4 lbs	5.4 lbs	5.4 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	12.0 uf	12.0 uf	12.0 uf	12.0 uf
Volts (Min)	280 V	280 V	280 V	280 V



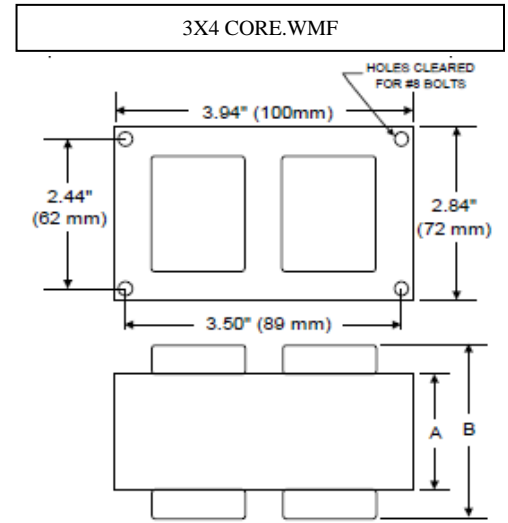
Capacitor:	CA12280DL	Ignitor:	SMH-2
Value:	12.0 uf	Temp:	105 °C
Temp Rating	100 °C	BTL:	2 ft
Height:	2.72 in		
Dia/Oval Dim	1.49 in		



BALLAST SPECIFICATIONS

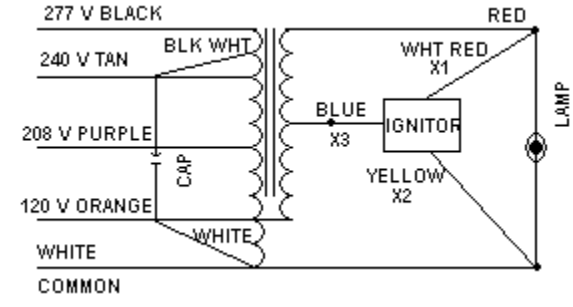
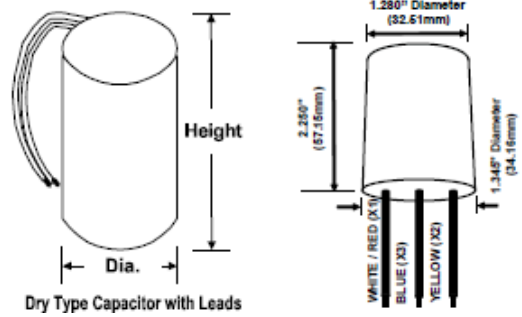
150W M102
Pulse Start Metal Halide
S150M-4
60 Hz HX-HPF

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	1.60	1.00	0.80	0.70
Open Circuit	3.50	2.15	1.75	1.55
Starting	1.30	0.95	0.65	0.55
Recommended Fuse (Amps)	9	6	5	4
Regulation				
Line Volts	±5%	±5%	±5%	±5%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	B	D	C	C
Benchtop Coil Rise	78.0	87.6	80.9	80.5
Power Factor (Min)	90%	90%	90%	90%
Input Watts	185 W	185 W	185 W	185 W
Efficiency	81%	81%	81%	81%
NOM. Open Circuit Voltage	265	265	265	265
Input Voltage At Lamp Dropout	75	120	150	170
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	1,600 V	1,600 V	1,600 V	1,600 V
1 Second	1,900 V	1,900 V	1,900 V	1,900 V
Open Circuit Voltage Test (V)	235 – 295	235 – 295	235 – 295	235 – 295
Short Circuit Current Test (A)				
Min	1.95	1.95	1.95	1.95
Secondary Current				
Max	2.45	2.45	2.45	2.45
Min	0.90	0.55	0.45	0.40
Input Current				
Max	1.70	1.10	0.85	0.75
CORE and COIL Specifications				
Dimension (A)	2.25 in	2.25 in	2.25 in	2.25 in
Dimension (B)	3.90 in	3.90 in	3.90 in	3.90 in
Weight	7.1 lbs	7.1 lbs	7.1 lbs	7.1 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	16.0 uf	16.0 uf	16.0 uf	16.0 uf
Volts (Min)	280 V	280 V	280 V	280 V



Capacitor: CA16330DL Ignitor: SMH-2

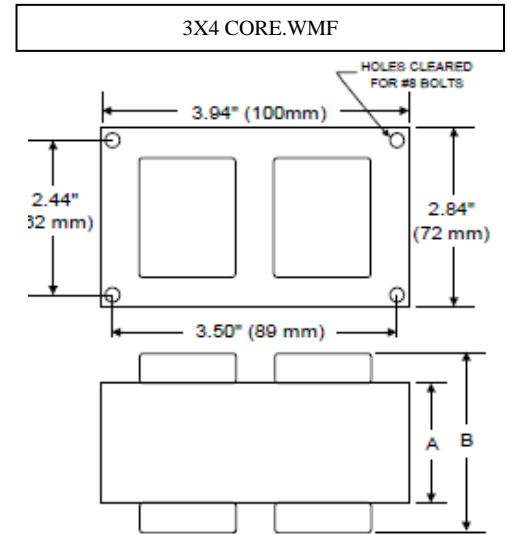
Microfarads: 16.0 uf Case Temp (Max): 105 °C
 Volts (Max): 330 V BTL Distance (Max) 5 ft
 Case Temp (Max) 100 °C
 Height (Max): 2.76 in
 Dia (Max): 1.82 in



BALLAST SPECIFICATIONS

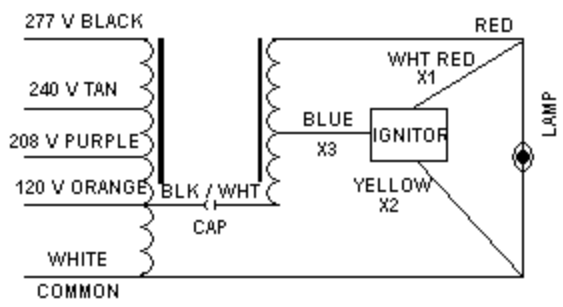
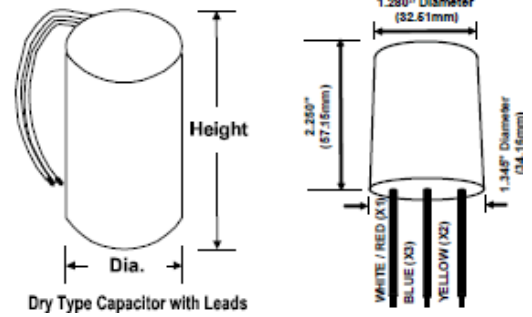
175W M137 / M152
Pulse Start Metal Halide
S175M-4/PS
60 Hz CWA

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	1.90	1.05	0.95	0.80
Open Circuit	1.00	0.60	0.50	0.45
Starting	1.00	0.60	0.50	0.45
Recommended Fuse (Amps)	5	3	3	2
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	B	C	A	A
Benchtop Coil Rise	77.7	80.6	74.5	73.2
Power Factor (Min)	90%	90%	90%	90%
Input Watts	208 W	208 W	208 W	208 W
Efficiency	84%	84%	84%	84%
NOM. Open Circuit Voltage	265	265	265	265
Input Voltage At Lamp Dropout	70	120	140	160
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	1,600 V	1,600 V	1,600 V	1,600 V
1 Second	1,900 V	1,900 V	1,900 V	1,900 V
Open Circuit Voltage Test (V)	240 – 290	240 – 290	240 – 290	240 – 290
Short Circuit Current Test (A)				
Min	1.85	1.85	1.85	1.85
Secondary Current				
Max	2.25	2.25	2.25	2.25
Min	0.70	0.40	0.35	0.30
Input Current				
Max	1.10	0.65	0.55	0.50
CORE and COIL Specifications				
Dimension (A)	2.63 in	2.63 in	2.63 in	2.63 in
Dimension (B)	3.75 in	3.75 in	3.75 in	3.75 in
Weight	8.0 lbs	8.0 lbs	8.0 lbs	8.0 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	12.5 uf	12.5 uf	12.5 uf	12.5 uf
Volts (Min)	330 V	330 V	330 V	330 V



Capacitor: CA12.5330DL Ignitor: SMH-2

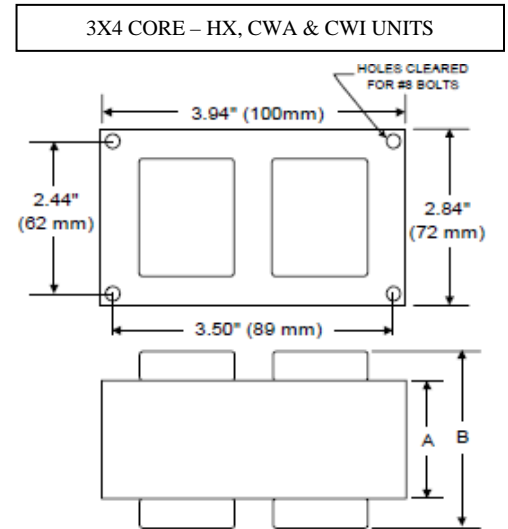
Microfarads: 12.5 uf Case Temp (Max): 105 °C
 Volts (Max): 330 V BTL Distance (Max) 2 ft
 Case Temp (Max) 100 °C
 Height (Max): 3.16 in
 Dia (Max): 1.61 in



BALLAST SPECIFICATIONS

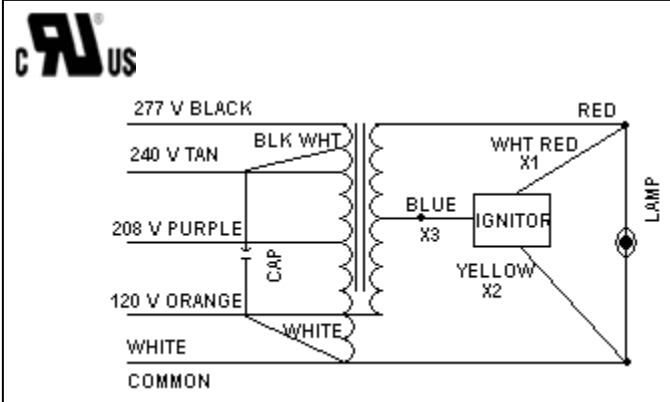
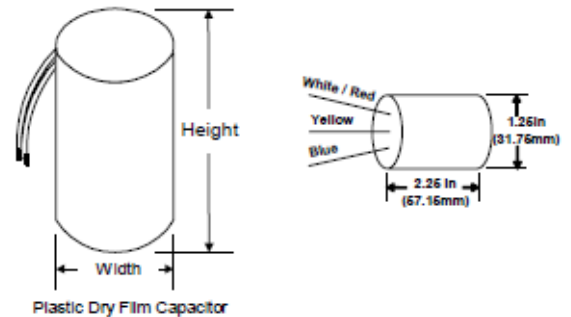
200W M136
Pulse Start Metal Halide
S200M-4/PS
60 Hz HX – HPF

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	2.00	1.25	1.00	0.85
Open Circuit	3.30	2.05	1.65	1.45
Starting	2.10	1.15	1.10	0.75
Regulation				
Line Volts	±5%	±5%	±5%	±5%
Lamp Watts	±10%	±10%	±10%	±10%
UL Temperature Ratings				
Insulation Class	H	H	H	H
Coil Temperature Code	A	A	A	A
Benchtop Coil Rise	72.0	70.0	73.0	67.0
Input Watts	225W	225W	225W	225W
NOM. Open Circuit Voltage	285	285	285	285
Power Factor	90%	90%	90%	90%
Current Crest Factor	1.50	1.50	1.50	1.50
Input Voltage At Lamp Dropout	90	140	150	190
MIN. Ambient Starting Temp.	-40°F/ -40°C	-40°F/ -40°C	-40°F/ -40°C	-40°F/ -40°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V	2,000 V	2,000 V	2,000 V
1 Second	2,500 V	2,500 V	2,500 V	2,500 V
Open Circuit Voltage Test (V)	255 – 315	255 – 315	255 – 315	255 – 315
Short Circuit Current Test (A)				
Min	1.90	1.90	1.90	1.90
Secondary Current				
Max	2.35	2.35	2.35	2.35
Min	1.60	1.05	0.80	2.35
Input Current				
Max	1.90	1.30	1.00	0.80
Recommended Fuse (Amps)	9	6	5	4
CORE and COIL Specifications				
Dimension (A)	2.25 in	2.25 in	2.25 in	2.25 in
Dimension (B)	3.90 in	3.90 in	3.90 in	3.90 in
Weight	7.0 lbs	7.0 lbs	7.0 lbs	7.0 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	16.0 uf	16.0 uf	16.0 uf	16.0 uf
Volts (Min)	290 V	290 V	290 V	290 V



Capacitor:	CA16330DL	Ignitor:	SMH-2
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Value:	16.0 uf	Temp:	105 °C
Temp Rating	100 °C	BTL:	2 ft
Height:	3.92 in		
Dia/Oval Dim	1.49 in		



BALLAST SPECIFICATIONS

200W M136

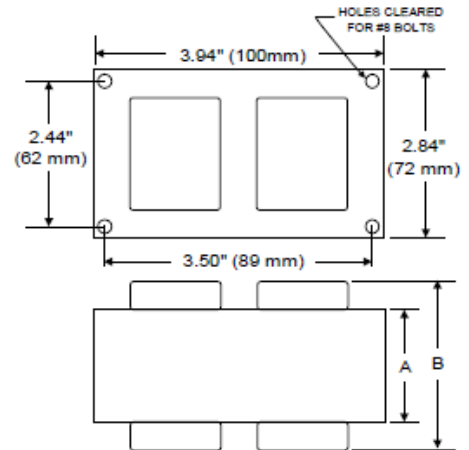
Pulse Start Metal Halide

S200M-48/12/PS

60 Hz HX-HPF

Input Volts	480		
Line Current (Amps)			
Operating	0.50		
Open Circuit	0.80		
Starting	0.50		
Recommended Fuse (Amps)	2		
Regulation			
Line Volts	±5%		
Lamp Watts	±10%		
Temperature Ratings			
Insulation Class	180 (H)		
Coil Temperature Code	D		
Benchtop Coil Rise	86.5		
Power Factor (Min)	90%		
Input Watts	237 W		
Efficiency	84%		
NOM. Open Circuit Voltage	285		
Input Voltage At Lamp Dropout	320		
Min Ambient Starting Temp	-20°F/ -30°C		
60 Hz TEST PROCEDURES			
High Potential Test (Volts)			
1 Minute	2,000V		
1 Second	2,500 V		
Open Circuit Voltage Test (V)	255 – 315		
Short Circuit Current Test (A)			
Min	1.85		
Secondary Current			
Max	2.25		
Min	0.45		
Input Current			
Max	0.50		
CORE and COIL Specifications			
Dimension (A)	2.45 in		
Dimension (B)	3.90 in		
Weight	8.0 lbs		
Lead Lengths	12"		
Capacitor Requirement			
Microfarads	16.0 uf		
Volts (Min)	280 V		

3X4 CORE – HX, CWA & CWI UNITS

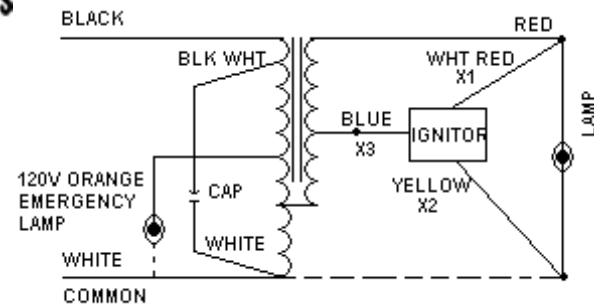
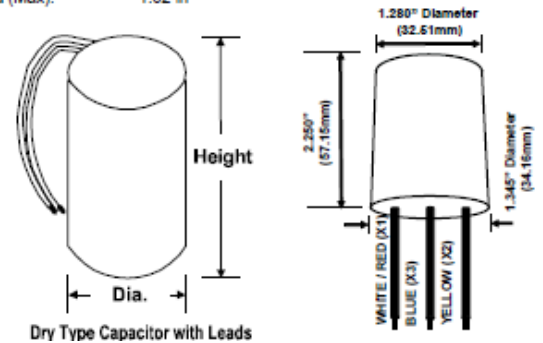


Capacitor: CA16330DL

Ignitor: SMH-2

Microfarads: 16.0 uf
 Volts (Max): 330 V
 Case Temp (Max): 100 °C
 Height (Max): 2.76 in
 Dia (Max): 1.62 in

Case Temp (Max): 105 °C
 BTL Distance (Max): 2 ft



BALLAST SPECIFICATIONS

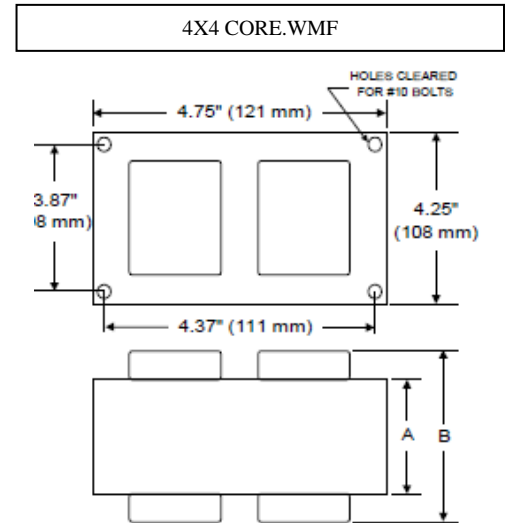
250W M138 / M153

Pulse Start Metal Halide

S250M-4/PS

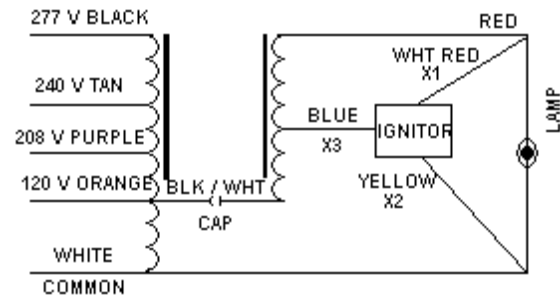
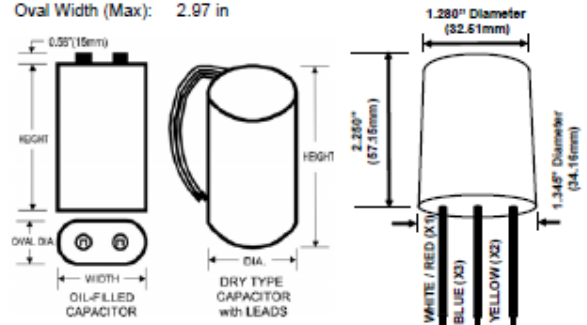
60 Hz CWA

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	2.50	1.45	1.25	1.10
Open Circuit	1.80	1.10	0.90	0.80
Starting	1.40	0.80	0.70	0.60
Recommended Fuse (Amps)	7	4	4	3
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	B	B	A	A
Benchtop Coil Rise	75.4	76.9	74.1	74.2
Power Factor (Min)	90%	90%	90%	90%
Input Watts	288 W	288 W	288 W	288 W
Efficiency	87%	87%	87%	87%
NOM. Open Circuit Voltage	270	270	270	270
Input Voltage At Lamp Dropout	60	104	120	138
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	1,600 V	1,600 V	1,600 V	1,600 V
1 Second	1,900 V	1,900 V	1,900 V	1,900 V
Open Circuit Voltage Test (V)	240 – 290	240 – 290	240 – 290	240 – 290
Short Circuit Current Test (A)				
Min	2.25	2.25	2.25	2.25
Secondary Current				
Max	2.75	2.75	2.75	2.75
Min	1.10	0.65	0.55	0.45
Input Current				
Max	1.70	0.95	0.85	0.75
CORE and COIL Specifications				
Dimension (A)	1.55 in	1.55 in	1.55 in	1.55 in
Dimension (B)	3.50 in	3.50 in	3.50 in	3.50 in
Weight	10.0 lbs	10.0 lbs	10.0 lbs	10.0 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	15.0 uf	15.0 uf	15.0 uf	15.0 uf
Volts (Min)	400 V	400 V	400 V	400 V



Capacitor: CA15400 / CA15400DL Ignitor: SMH-2

Microfarads:	15.0 uf	15.0 uf	Case Temp (Max):	105 °C
Volts (Max):	400 V	400 V	BTL Distance (Max)	2 ft
Case Temp (Max)	100 °C	100 °C		
Height (Max):	2.75 in	3.68 in		
Dia (Max):	1.97 in	1.80 in		
Oval Width (Max):	2.97 in			

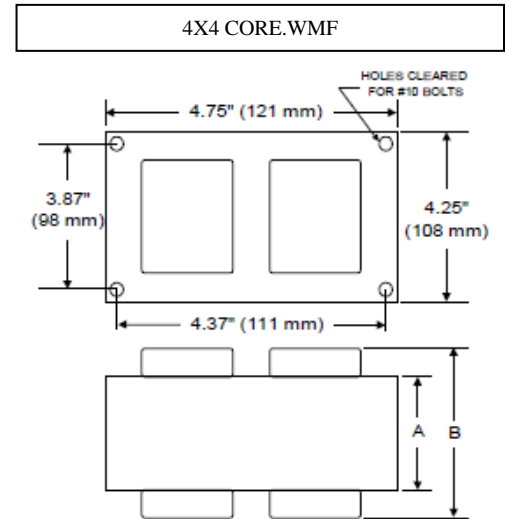


BALLAST SPECIFICATIONS

250W M138 / M153

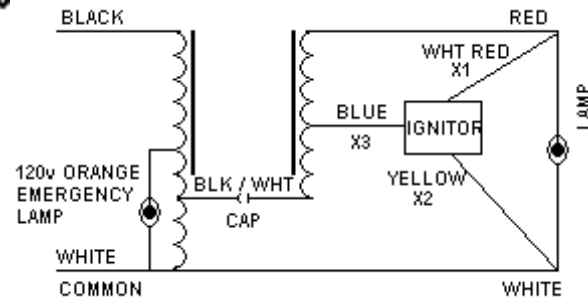
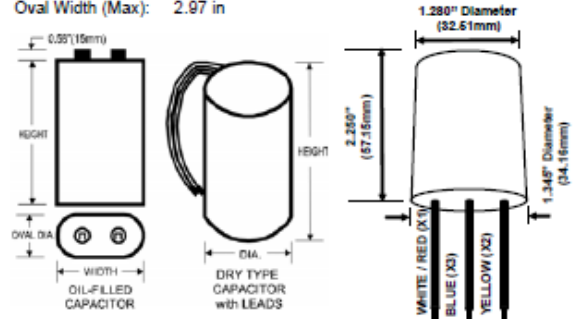
Pulse Start Metal Halide S250M-48/12/PS 60 Hz CWA

Input Volts	480		
Line Current (Amps)			
Operating	0.60		
Open Circuit	0.45		
Starting	0.45		
Recommended Fuse (Amps)	2		
Regulation			
Line Volts	±10%		
Lamp Watts	±9%		
Temperature Ratings			
Insulation Class	180 (H)		
Coil Temperature Code	A		
Benchtop Coil Rise	59.0		
Power Factor (Min)	90%		
Input Watts	285 W		
Efficiency	88%		
NOM. Open Circuit Voltage	275		
Input Voltage At Lamp Dropout	270		
Min Ambient Starting Temp	-20°F/ -30°C		
60 Hz TEST PROCEDURES			
High Potential Test (Volts)			
1 Minute	2,000 V		
1 Second	2,400 V		
Open Circuit Voltage Test (V)	245 – 300		
Short Circuit Current Test (A)			
Min	2.35		
Secondary Current			
Max	2.90		
Min	0.35		
Input Current			
Max	0.50		
CORE and COIL Specifications			
Dimension (A)	2.00 in		
Dimension (B)	4.10 in		
Weight	11.5 lbs		
Lead Lengths	12"		
Capacitor Requirement			
Microfarads	16.0 uf		
Volts (Min)	370 V		



Capacitor: CA15400 / CA15400DL Ignitor: SMH-2

Microfarads:	15.0 uf	15.0 uf	Case Temp (Max):	105 °C
Volts (Max):	370 V	400 V	BTL Distance (Max)	2 ft
Case Temp (Max)	100 °C	100 °C		
Height (Max):	3.19 in	3.74 in		
Dia (Max):	1.97 in	1.80 in		
Oval Width (Max):	2.97 in			



BALLAST SPECIFICATIONS

320W M132 / M154

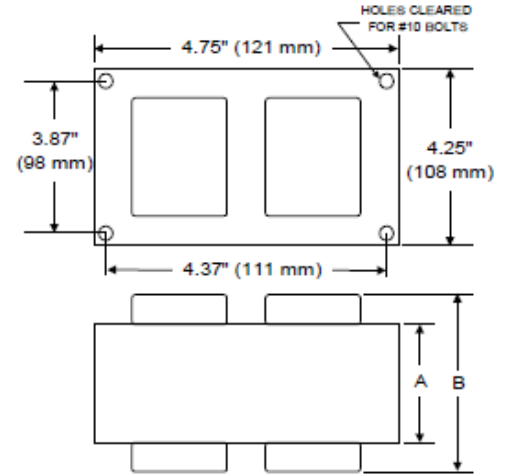
Pulse Start Metal Halide

S320M-4

60 Hz CWA

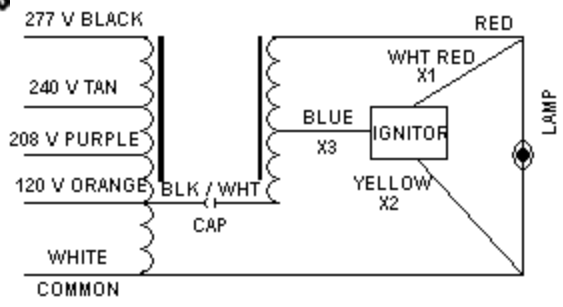
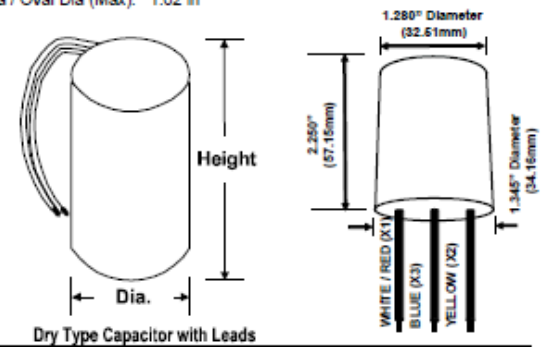
Input Volts	120	208	240	277
Line Current (Amps)				
Operating	3.20	1.80	1.60	1.40
Open Circuit	1.20	0.70	0.60	0.50
Starting	2.60	1.50	1.30	1.15
Recommended Fuse (Amps)	8	5	4	4
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	B	B	B	B
Benchtop Coil Rise	75.7	76.2	78.0	78.3
Power Factor (Min)	90%	90%	90%	90%
Input Watts	368 W	368 W	368 W	368 W
Efficiency	87%	87%	87%	87%
NOM. Open Circuit Voltage	265	265	265	265
Input Voltage At Lamp Dropout	80	140	160	200
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)	1,600 V	1,600 V	1,600 V	1,600 V
1 Minute	1,900 V	1,900 V	1,900 V	1,900 V
1 Second	235 – 295	235 – 295	235 – 295	235 – 295
Open Circuit Voltage Test (V)				
Short Circuit Current Test (A)	3.10	3.10	3.10	3.10
Min				
Secondary Current	3.80	3.80	3.80	3.80
Max	2.15	1.20	1.05	0.90
Min				
Input Current	3.25	1.85	1.65	1.40
Max				
CORE and COIL Specifications				
Dimension (A)	1.85 in	1.85 in	1.85 in	1.85 in
Dimension (B)	3.65 in	3.65 in	3.65 in	3.65 in
Weight	10.0 lbs	10.0 lbs	10.0 lbs	10.0 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	22.0 uf	22.0 uf	22.0 uf	22.0 uf
Volts (Min)	330 V	330 V	330 V	330 V

4X4 CORE – HX, CWA & CWI UNITS



Capacitor: CA22330DL	Ignitor: SMH-2
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Microfarads: 22.0 uf	Case Temp (Max): 105 °C
Volts (Max): 330 V	BTL Distance (Max): 2 ft
Case Temp (Max): 100 °C	
Height (Max): 3.68 in	
Dia / Oval Dia (Max): 1.62 in	



BALLAST SPECIFICATIONS

320W M132 / M154

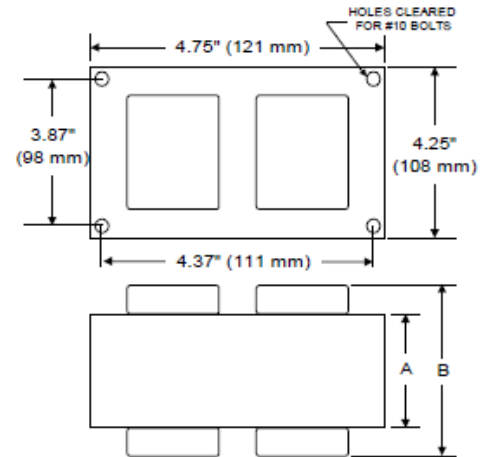
Pulse Start Metal Halide

S320M-48/12

60 Hz CWA

Input Volts	480		
Line Current (Amps)			
Operating	0.80		
Open Circuit	0.40		
Starting	0.60		
Recommended Fuse (Amps)	3		
Regulation			
Line Volts	±10%		
Lamp Watts	±10%		
Temperature Ratings			
Insulation Class	180 (H)		
Coil Temperature Code	D		
Benchtop Coil Rise	85.9		
Power Factor (Min)	90%		
Input Watts	368 W		
Efficiency	87%		
NOM. Open Circuit Voltage	265		
Input Voltage At Lamp Dropout	320		
Min Ambient Starting Temp	-20°F/ -30°C		
60 Hz TEST PROCEDURES			
High Potential Test (Volts)			
1 Minute	2,000 V		
1 Second	2,400 V		
Open Circuit Voltage Test (V)	235 – 295		
Short Circuit Current Test (A)			
Min	3.00		
Secondary Current			
Max	3.60		
Min	0.45		
Input Current			
Max	0.75		
CORE and COIL Specifications			
Dimension (A)	1.90 in		
Dimension (B)	3.75 in		
Weight	10.5 lbs		
Lead Lengths	12"		
Capacitor Requirement			
Microfarads	22.0 uf		
Volts (Min)	330 V		

4X4 CORE – HX, CWA & CWI UNITS

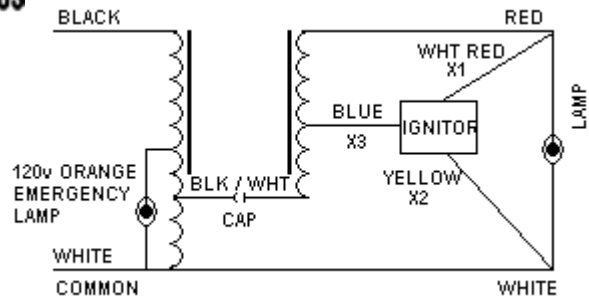
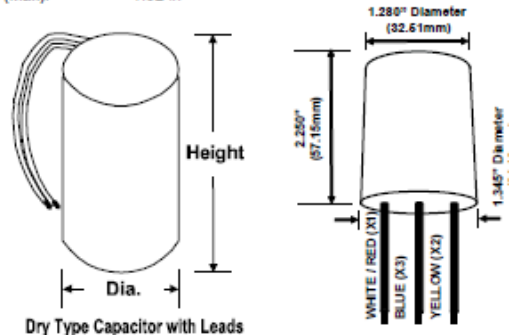


Capacitor: CA2233DL

Ignitor: SMH-2

Microfarads: 22.0 uf
 Volts (Max): 330 V
 Case Temp (Max): 100 °C
 Height (Max): 3.68 in
 Dia (Max): 1.62 in

Case Temp (Max): 105 °C
 BTL Distance (Max): 2 ft



BALLAST SPECIFICATIONS

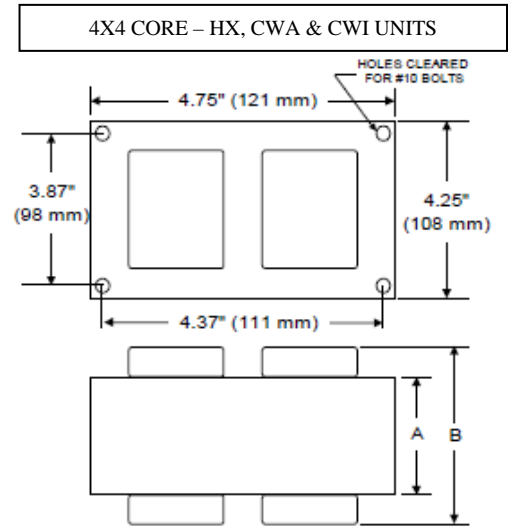
350W M131

Pulse Start Metal Halide

S350M-4

60 Hz CWA

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	3.60	2.10	1.80	1.55
Open Circuit	1.30	0.75	0.65	0.55
Starting	3.30	1.90	1.65	1.40
Recommended Fuse (Amps)	9	6	5	4
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	B	C	C	C
Benchtop Coil Rise	75.9	80.2	80.6	82.2
Power Factor (Min)	90%	90%	90%	90%
Input Watts	398 W	398 W	398 W	398 W
Efficiency	88%	88%	88%	88%
NOM. Open Circuit Voltage	245	245	245	245
Input Voltage At Lamp Dropout	85	155	170	190
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	1,600 V	1,600 V	1,600 V	1,600 V
1 Second	1,900 V	1,900 V	1,900 V	1,900 V
Open Circuit Voltage Test (V)	215 – 275	215 – 275	215 – 275	215 – 275
Short Circuit Current Test (A)				
Min	3.25	3.25	3.25	3.25
Secondary Current				
Max	3.95	3.95	3.95	3.95
Min	2.50	1.45	1.25	1.10
Input Current				
Max	3.80	2.15	1.90	1.70
CORE and COIL Specifications				
Dimension (A)	1.92 in	1.92 in	1.92 in	1.92 in
Dimension (B)	3.80 in	3.80 in	3.80 in	3.80 in
Weight	10.5 lbs	10.5 lbs	10.5 lbs	10.5 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	24.0 uf	24.0 uf	24.0 uf	24.0 uf
Volts (Min)	330 V	330 V	330 V	330 V



Capacitor: CA24400DL

Ignitor: SMH-2

Microfarads: 24.0 uf

Case Temp (Max): 105 °C

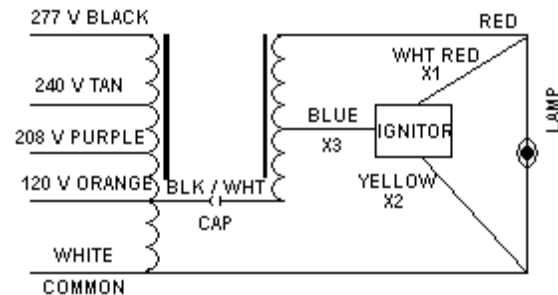
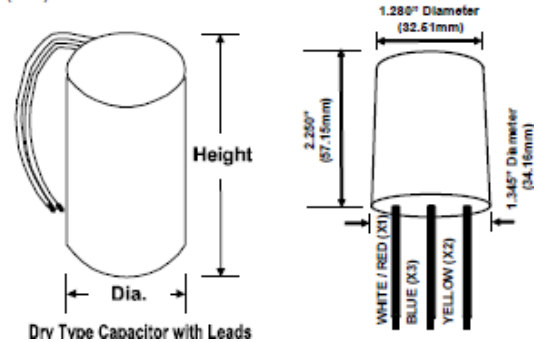
Volts (Max): 330 V

BTL Distance (Max): 2 ft

Case Temp (Max): 100 °C

Height (Max): 3.68 in

Dia (Max): 1.62 in



BALLAST SPECIFICATIONS

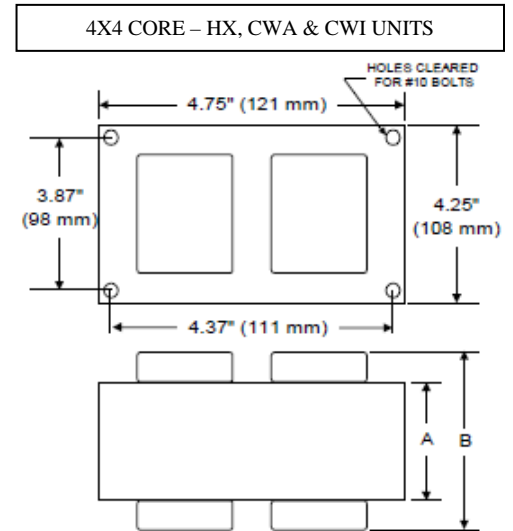
350W M131

Pulse Start Metal Halide

S350M-48/12

60 Hz CWA

Input Volts	480		
Line Current (Amps)			
Operating	0.85		
Open Circuit	0.55		
Starting	0.65		
Recommended Fuse (Amps)	3		
Regulation			
Line Volts	±10%		
Lamp Watts	±10%		
Temperature Ratings			
Insulation Class	180 (H)		
Coil Temperature Code	C		
Benchtop Coil Rise	80.9		
Power Factor (Min)	90%		
Input Watts	398 W		
Efficiency	88%		
NOM. Open Circuit Voltage	250		
Input Voltage At Lamp Dropout	300		
Min Ambient Starting Temp	-20°F/ -30°C		
60 Hz TEST PROCEDURES			
High Potential Test (Volts)			
1 Minute	2,000 V		
1 Second	2,400 V		
Open Circuit Voltage Test (V)	225 – 275		
Short Circuit Current Test (A)			
Min	3.15		
Secondary Current			
Max	3.85		
Min	0.50		
Input Current			
Max	0.75		
CORE and COIL Specifications			
Dimension (A)	2.00 in		
Dimension (B)	4.10 in		
Weight	10.0 lbs		
Lead Lengths	12"		
Capacitor Requirement			
Microfarads	24.0 uf		
Volts (Min)	330 V		

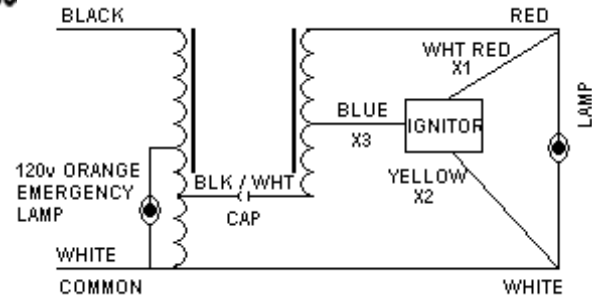
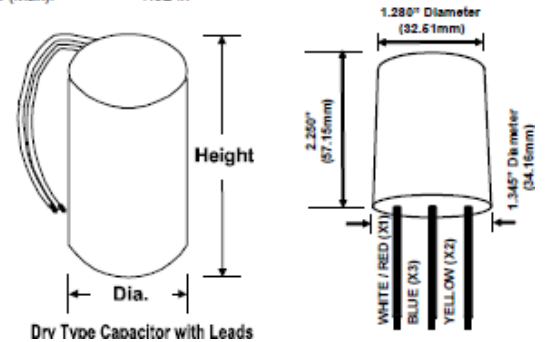


Capacitor: CA24400DL

Ignitor: SMH-2

Microfarads: 24.0 uf
 Volts (Max): 330 V
 Case Temp (Max): 100 °C
 Height (Max): 3.88 in
 Dia (Max): 1.82 in

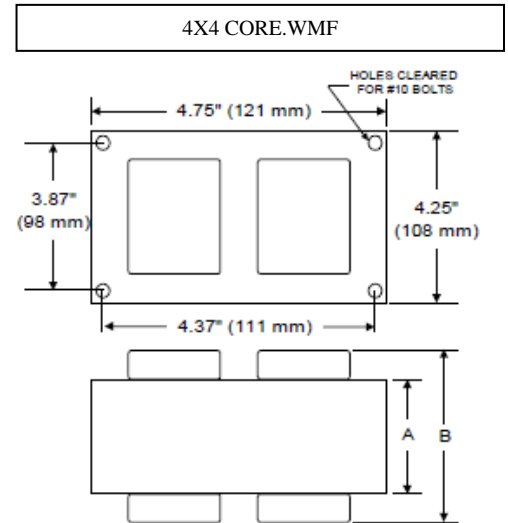
Case Temp (Max): 105 °C
 BTL Distance (Max): 2 ft



BALLAST SPECIFICATIONS

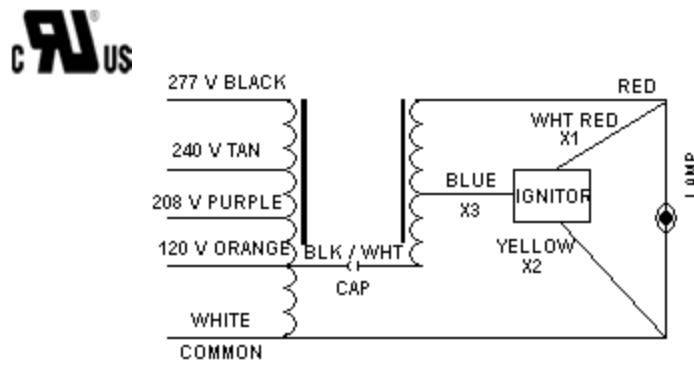
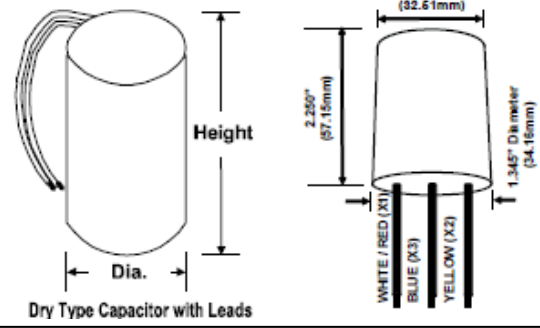
400W M135 / M155
Pulse Start Metal Halide
S400M-4/PS
60 Hz CWA

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	4.00	2.30	2.00	1.75
Open Circuit	2.00	1.15	1.00	0.85
Starting	3.50	2.00	1.75	1.50
Recommended Fuse (Amps)	10	6	5	5
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	C	C	C	C
Benchtop Coil Rise	84.3	84.8	84.8	84.9
Power Factor (Min)	90%	90%	90%	90%
Input Watts	453 W	453 W	453 W	453 W
Efficiency	88%	88%	88%	88%
NOM. Open Circuit Voltage	280	280	280	280
Input Voltage At Lamp Dropout	60	104	120	138
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V	2,000 V	2,000 V	2,000 V
1 Second	2,500 V	2,500 V	2,500 V	2,500 V
Open Circuit Voltage Test (V)	250 – 310	250 – 310	250 – 310	250 – 310
Short Circuit Current Test (A)				
Min	3.50	3.50	3.50	3.50
Secondary Current				
Max	4.30	4.30	4.30	4.30
Min	2.80	1.60	1.40	1.20
Input Current				
Max	4.20	2.40	2.10	1.80
CORE and COIL Specifications				
Dimension (A)	2.00 in	2.00 in	2.00 in	2.00 in
Dimension (B)	3.90 in	3.90 in	3.90 in	3.90 in
Weight	10.7 lbs	10.7 lbs	10.7 lbs	10.7 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	26.0 uf	26.0 uf	26.0 uf	26.0 uf
Volts (Min)	330 V	330 V	330 V	330 V



Capacitor: CA26400DL Ignitor: SMH-2

Microfarads: 26.0 uf Case Temp (Max): 105 °C
 Volts (Max): 400 V BTL Distance (Max): 2 ft
 Case Temp (Max): 100 °C
 Height (Max): 4.72 in
 Dia (Max): 1.80 in



BALLAST SPECIFICATIONS

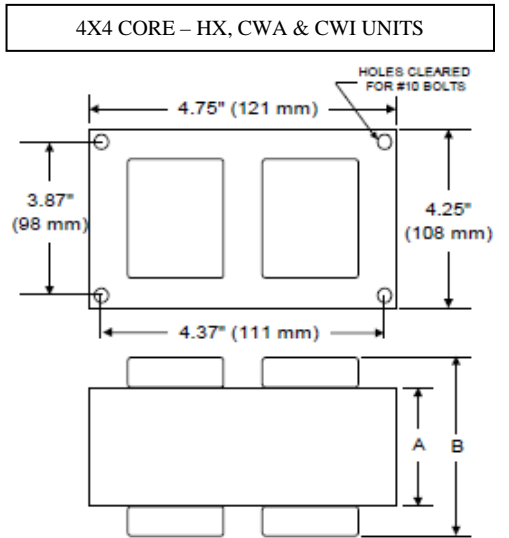
400W M135 / M155

Pulse Start Metal Halide

S400M-48/12/PS

60 Hz CWA

Input Volts	480		
Line Current (Amps)			
Operating	1.00		
Open Circuit	0.50		
Starting	0.90		
Recommended Fuse (Amps)	3		
Regulation			
Line Volts	±10%		
Lamp Watts	±9%		
Temperature Ratings			
Insulation Class	180 (H)		
Coil Temperature Code	D		
Benchtop Coil Rise	88.9		
Power Factor (Min)	90%		
Input Watts	452 W		
Efficiency	89%		
NOM. Open Circuit Voltage	280		
Input Voltage At Lamp Dropout	240		
Min Ambient Starting Temp	-20°F/ -30°C		
60 Hz TEST PROCEDURES			
High Potential Test (Volts)			
1 Minute	2,000 V		
1 Second	2,500 V		
Open Circuit Voltage Test (V)	250 – 310		
Short Circuit Current Test (A)			
Min	3.55		
Secondary Current			
Max	4.35		
Min	0.60		
Input Current			
Max	0.90		
CORE and COIL Specifications			
Dimension (A)	2.20 in		
Dimension (B)	4.10 in		
Weight	12.0 lbs		
Lead Lengths	12'		
Capacitor Requirement			
Microfarads	26.0 uf		
Volts (Min)	330 V		

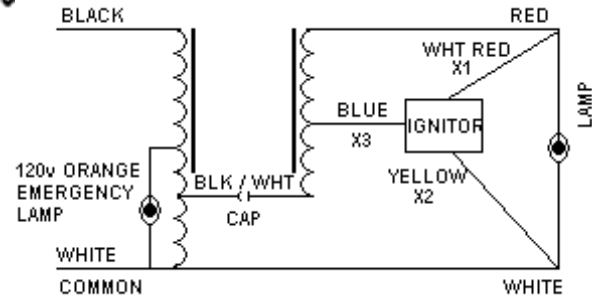
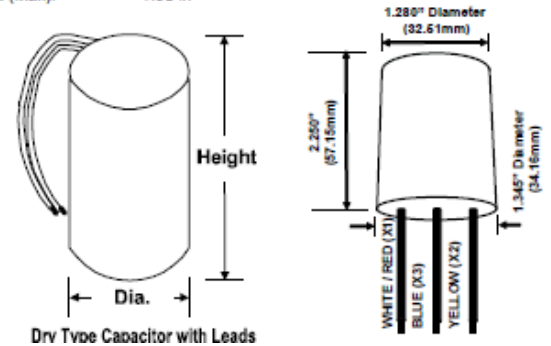


Capacitor: CA26400DL

Ignitor: SMH-2

Microfarads: 26.0 uf
 Volts (Max): 400 V
 Case Temp (Max): 100 °C
 Height (Max): 4.72 in
 Dia (Max): 1.80 in

Case Temp (Max): 105 °C
 BTL Distance (Max): 2 ft



BALLAST SPECIFICATIONS

450W M144

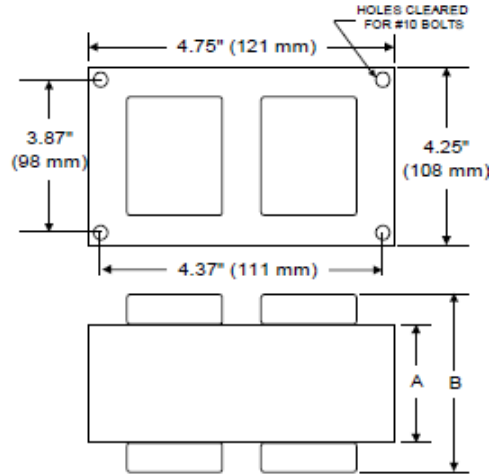
Pulse Start Metal Halide

S450M-4/PS

60 Hz CWA

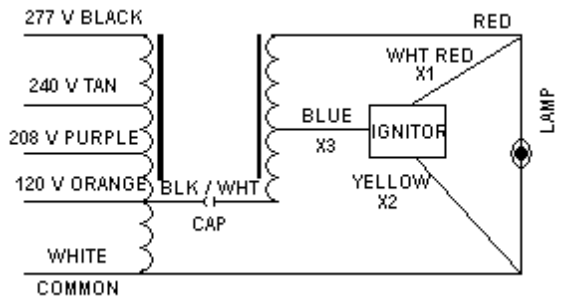
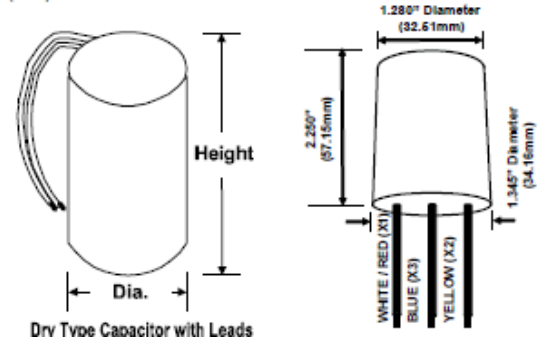
Input Volts	120	208	240	277
Line Current (Amps)				
Operating	4.40	2.50	2.20	1.90
Open Circuit	1.50	0.85	0.75	0.65
Starting	4.00	2.30	2.00	1.70
Recommended Fuse (Amps)	11	7	6	5
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	C	D	D	D
Benchtop Coil Rise	83.7	85.2	85.4	88.1
Power Factor (Min)	90%	90%	90%	90%
Input Watts	507 W	507 W	507 W	507 W
Efficiency	89%	89%	89%	89%
NOM. Open Circuit Voltage	260	260	260	260
Input Voltage At Lamp Dropout	70	120	140	160
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V	2,000 V	2,000 V	2,000 V
1 Second	2,500 V	2,500 V	2,500 V	2,500 V
Open Circuit Voltage Test (V)	235 – 285	235 – 285	235 – 285	235 – 285
Short Circuit Current Test (A)				
Min	4.20	4.20	4.20	4.20
Secondary Current				
Max	5.15	5.15	5.15	5.15
Min	3.20	1.85	1.60	1.40
Input Current				
Max	4.80	2.75	2.40	2.10
CORE and COIL Specifications				
Dimension (A)	2.30	2.30	2.30	2.30
Dimension (B)	4.20	4.20	4.20	4.20
Weight	12.4 lbs	12.4 lbs	12.4 lbs	12.4 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	32.0 uf	32.0 uf	32.0 uf	32.0 uf
Volts (Min)	300 V	300 V	300 V	300 V

4X4 CORE – HX, CWA & CWI UNITS



Capacitor: CA32330DL	Ignitor: SMH-2
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Microfarads: 32.0 uf Volts (Max): 330 V Case Temp (Max): 100 °C Height (Max): 4.68 in Dia (Max): 1.61 in	Case Temp (Max): 105 °C BTL Distance (Max): 2 ft
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BALLAST SPECIFICATIONS

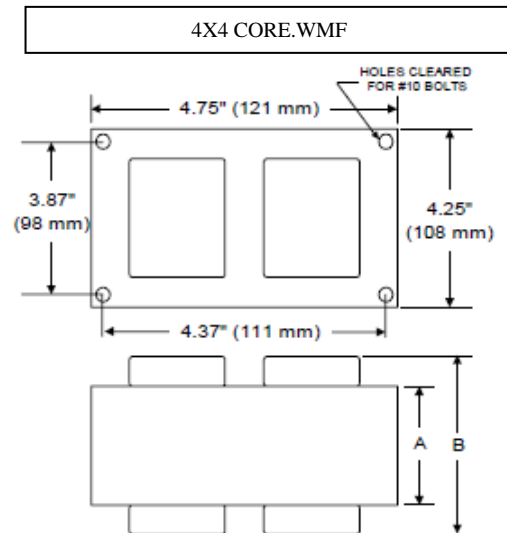
450W M144

Pulse Start Metal Halide

S450M-48/12/PS

60 Hz CWA

Input Volts	480		
Line Current (Amps)			
Operating	1.10		
Open Circuit	0.55		
Starting	0.85		
Recommended Fuse (Amps)	3		
Regulation			
Line Volts	±10%		
Lamp Watts	±10%		
Temperature Ratings			
Insulation Class	180 (H)		
Coil Temperature Code	C		
Benchtop Coil Rise	84.3		
Power Factor (Min)	90%		
Input Watts	509 W		
Efficiency	88%		
NOM. Open Circuit Voltage	255		
Input Voltage At Lamp Dropout	250		
Min Ambient Starting Temp	-20°F/ -30°C		
60 Hz TEST PROCEDURES			
High Potential Test (Volts)			
1 Minute	2,000 V		
1 Second	2,400 V		
Open Circuit Voltage Test (V)	230 – 280		
Short Circuit Current Test (A)			
Min	4.15		
Secondary Current			
Max	5.05		
Min	0.65		
Input Current			
Max	1.95		
CORE and COIL Specifications			
Dimension (A)	2.30 in		
Dimension (B)	4.40 in		
Weight	14.5 lbs		
Lead Lengths	12"		
Capacitor Requirement			
Microfarads	32.0 uf		
Volts (Min)	300 V		

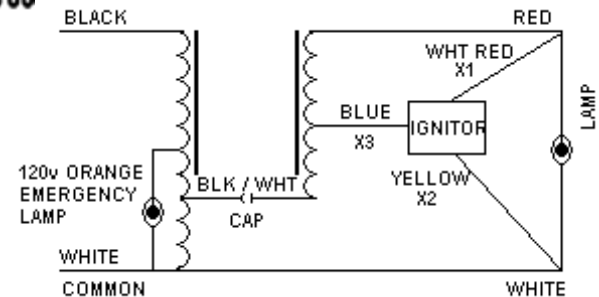
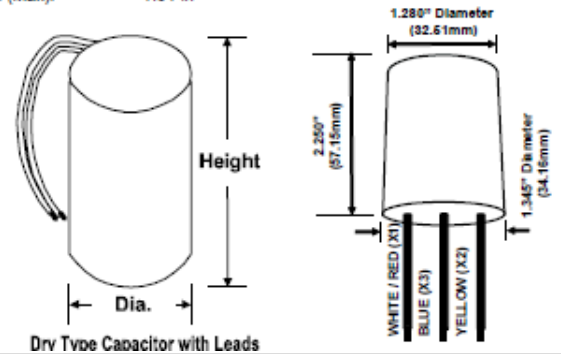


Capacitor: CA32330DL

Ignitor: SMH-2

Microfarads: 32.0 uf
Volts (Max): 330 V
Case Temp (Max): 100 °C
Height (Max): 4.88 in
Dia (Max): 1.81 in

Case Temp (Max): 105 °C
BTL Distance (Max): 2 ft



BALLAST SPECIFICATIONS

575W

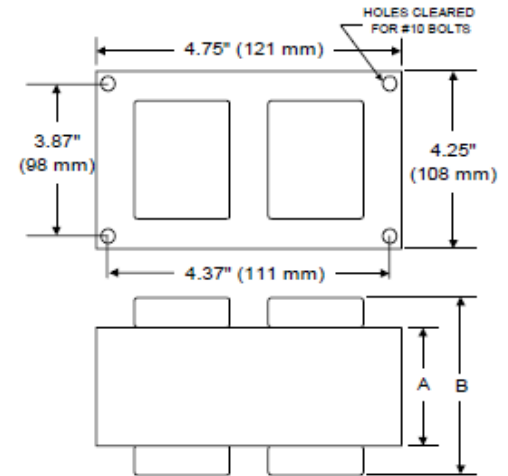
Pulse Start Metal Halide

S575M-4/PS

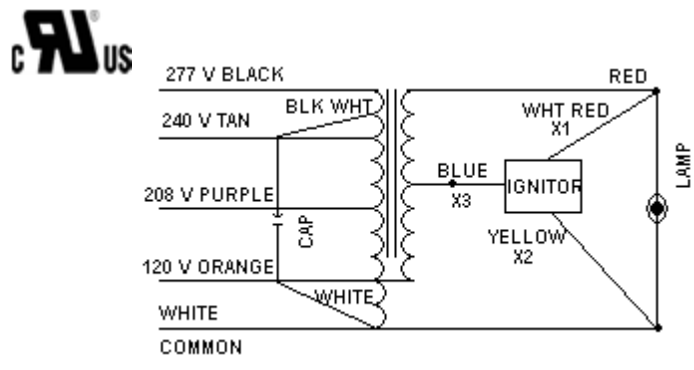
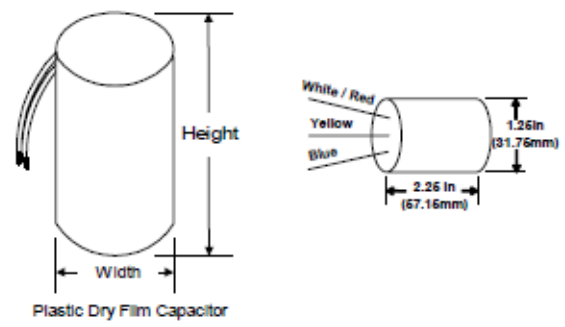
60 Hz HX – HPF

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	5.70	3.05	2.95	2.50
Open Circuit	8.75	4.70	4.45	3.80
Starting	7.80	4.20	4.05	3.20
Regulation				
Line Volts	±5%	±5%	±5%	±5%
Lamp Watts	±10%	±10%	±10%	±10%
UL Temperature Ratings				
Insulation Class	H	H	H	H
Coil Temperature Code	B	B	B	B
Benchtop Coil Rise	79.3	73.9	81.6	81.3
Input Watts	635 W	635 W	635 W	635 W
NOM. Open Circuit Voltage	300	300	300	300
Power Factor	90%	90%	90%	90%
Current Crest Factor	1.50	1.50	1.50	1.50
Input Voltage At Lamp Dropout	90	160	180	210
MIN. Ambient Starting Temp.	-40°F/ -40°C	-40°F/ -40°C	-40°F/ -40°C	-40°F/ -40°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V	2,000 V	2,000 V	2,000 V
1 Second	2,500 V	2,500 V	2,500 V	2,500 V
Open Circuit Voltage Test (V)	270 – 330	270 – 330	270 – 330	270 – 330
Short Circuit Current Test (A)				
Min	5.65	5.65	5.65	5.65
Secondary Current				
Max	6.95	6.95	6.95	6.95
Min	6.05	3.10	3.15	2.65
Input Current				
Max	9.15	4.70	4.75	4.05
Recommended Fuse (Amps)	15	8	8	7
CORE and COIL Specifications				
Dimension (A)	3.25 in	3.25 in	3.25 in	3.25 in
Dimension (B)	4.90 in	4.90 in	4.90 in	4.90 in
Weight	18.0 lbs	18.0 lbs	18.0 lbs	18.0 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	38.0 uf	38.0 uf	38.0 uf	38.0 uf
Volts (Min)	330 V	330 V	330 V	330 V

4X4 CORE – HX, CWA & CWI UNITS



Capacitor:	CA38330DL	Ignitor:	BVS-045
Value:	38.0 uf	Temp:	105 °C
Temp Rating	100 °C	BTL:	2 ft
Height:	4.62 in		
Dia/Oval Dim	1.77 in		



BALLAST SPECIFICATIONS

575W

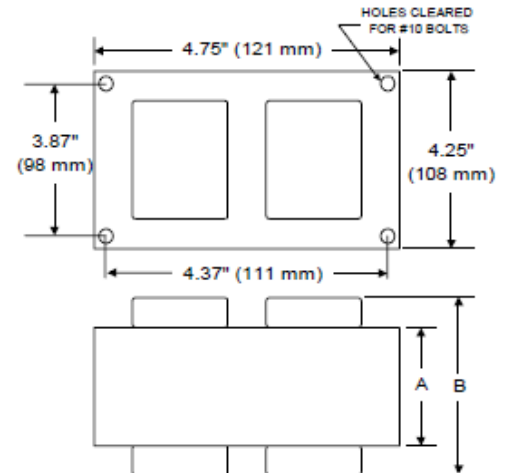
Pulse Start Metal Halide

S575M-48/PS

60 Hz HX – HPF

Input Volts	480		
Line Current (Amps)			
Operating	1.45		
Open Circuit	2.30		
Starting	2.20		
Regulation			
Line Volts	±5%		
Lamp Watts	±10%		
UL Temperature Ratings	H		
Insulation Class	D		
Coil Temperature Code	89.0		
Benchtop Coil Rise			
Input Watts	645 W		
NOM. Open Circuit Voltage	325		
Power Factor	90%		
Current Crest Factor	1.50		
Input Voltage At Lamp Dropout	300		
MIN. Ambient Starting Temp.	-40°F/ -40°C		
60 Hz TEST PROCEDURES			
High Potential Test (Volts)			
1 Minute			
1 Second	2,000 V		
Open Circuit Voltage Test (V)	2,500 V		
Short Circuit Current Test (A)	295 – 355		
Min	5.70		
Secondary Current	6.30		
Max	1.40		
Min	2.10		
Input Current			
Max			
Recommended Fuse (Amps)	4		
CORE and COIL Specifications			
Dimension (A)	3.25 in		
Dimension (B)	4.90 in		
Weight	18.5 lbs		
Lead Lengths	12"		
Capacitor Requirement			
Microfarads	38.0 uf		
Volts (Min)	330 V		

4X4 CORE – HX, CWA & CWI UNITS

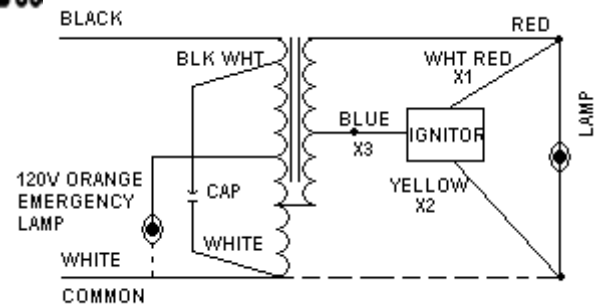
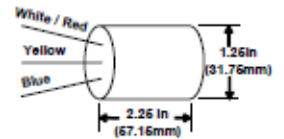
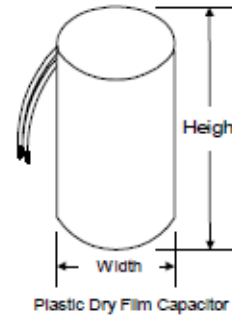


Capacitor: CA38330DL

Ignitor: BVS-045

Value: 38.0 uf
Temp Rating: 100 °C
Height: 4.62 in
Dia/Oval Dim: 1.77 in

Temp: 105 °C
BTL: 2 ft



BALLAST SPECIFICATIONS

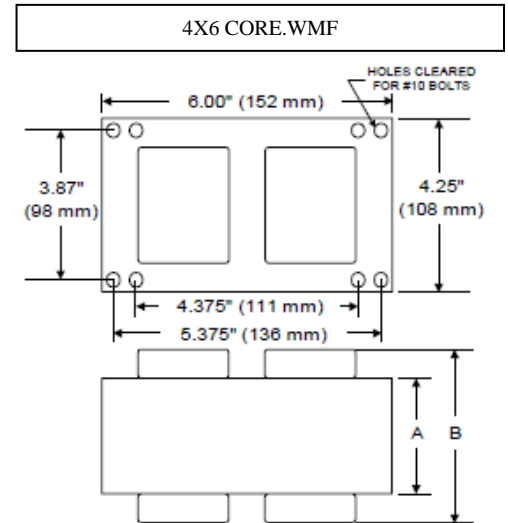
750W M149

Pulse Start Metal Halide

S750M-4/PS

60 Hz CWA

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	6.80	4.00	3.40	3.00
Open Circuit	4.60	2.60	2.30	2.00
Starting	4.80	2.80	2.40	2.10
Recommended Fuse (Amps)	17	10	9	8
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	B	C	B	B
Benchtop Coil Rise	75.9	81.6	75.9	78.2
Power Factor (Min)	90%	90%	90%	90%
Input Watts	815 W	815 W	815 W	815 W
Efficiency				
NOM. Open Circuit Voltage	370	370	370	370
Input Voltage At Lamp Dropout	60	105	120	140
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V	2,000 V	2,000 V	2,000 V
1 Second	2,500 V	2,500 V	2,500 V	2,500 V
Open Circuit Voltage Test (V)	335 – 405	335 – 405	335 – 405	335 – 405
Short Circuit Current Test (A)				
Min	4.30	4.30	4.30	4.30
Secondary Current				
Max	5.30	5.30	5.30	5.30
Min	3.60	2.00	1.85	1.60
Input Current				
Max	5.50	3.10	2.75	2.40
CORE and COIL Specifications				
Dimension (A)	2.30 in	2.30 in	2.30 in	2.30 in
Dimension (B)	4.30 in	4.30 in	4.30 in	4.30 in
Weight	18.0 lbs	18.0 lbs	18.0 lbs	18.0 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	24.0 uf	24.0 uf	24.0 uf	24.0 uf
Volts (Min)	480 V	480 V	480 V	480 V

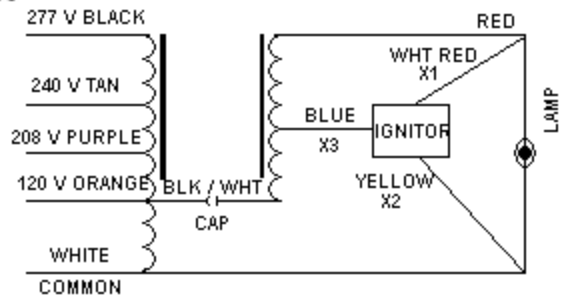
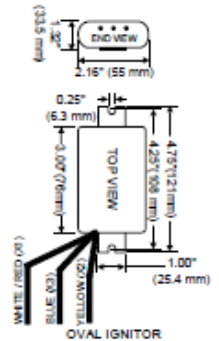
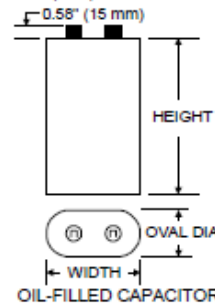


Capacitor: CA24480

Ignitor: BVS-042

Microfarads: 24.0 uf
 Volts (Max): 480 V
 Case Temp (Max): 100 °C
 Height (Max): 4.03 in
 Dia (Max): 1.97 in
 Oval Width (Max): 2.97 in

Case Temp (Max): 105 °C
 BTL Distance (Max): 2 ft



BALLAST SPECIFICATIONS

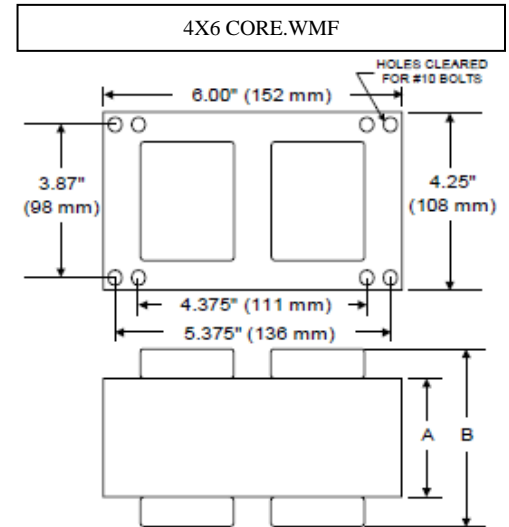
750W M149

Pulse Start Metal Halide

S750M-48/12/PS

60 Hz CWA

Input Volts	480		
Line Current (Amps)			
Operating	1.70		
Open Circuit	1.35		
Starting	1.10		
Recommended Fuse (Amps)	4		
Regulation			
Line Volts	±10%		
Lamp Watts	±10%		
Temperature Ratings			
Insulation Class	180 (H)		
Coil Temperature Code	D		
Benchtop Coil Rise	85.2		
Power Factor (Min)	90%		
Input Watts	820 W		
Efficiency			
NOM. Open Circuit Voltage	370		
Input Voltage At Lamp Dropout	220		
Min Ambient Starting Temp	-20°F/ -30°C		
60 Hz TEST PROCEDURES			
High Potential Test (Volts)			
1 Minute	2,000 V		
1 Second	2,500 V		
Open Circuit Voltage Test (V)	335 – 405		
Short Circuit Current Test (A)			
Min	4.30		
Secondary Current			
Max	5.30		
Min	0.80		
Input Current			
Max	1.20		
CORE and COIL Specifications			
Dimension (A)	2.40 in		
Dimension (B)	4.40 in		
Weight	19.0 lbs		
Lead Lengths	12"		
Capacitor Requirement			
Microfarads	24.0 uf		
Volts (Min)	480 V		

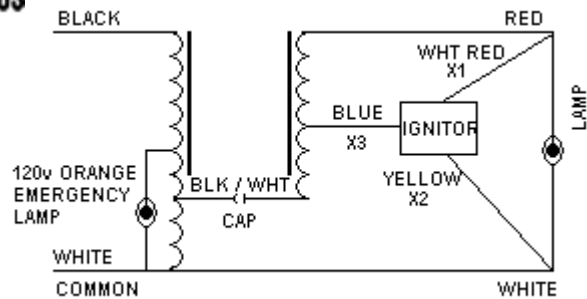
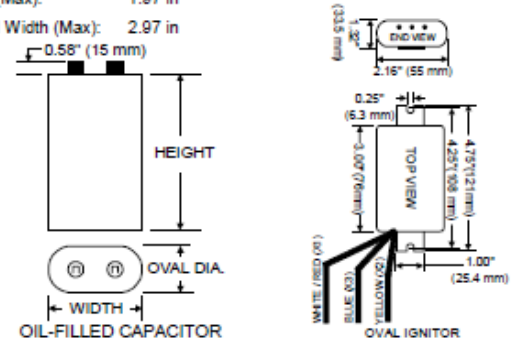


Capacitor: CA24480

Ignitor: BVS-042

Microfarads: 24.0 uf
 Volts (Max): 480 V
 Case Temp (Max): 100 °C
 Height (Max): 4.03 in
 Dia (Max): 1.97 in
 Oval Width (Max): 2.97 in

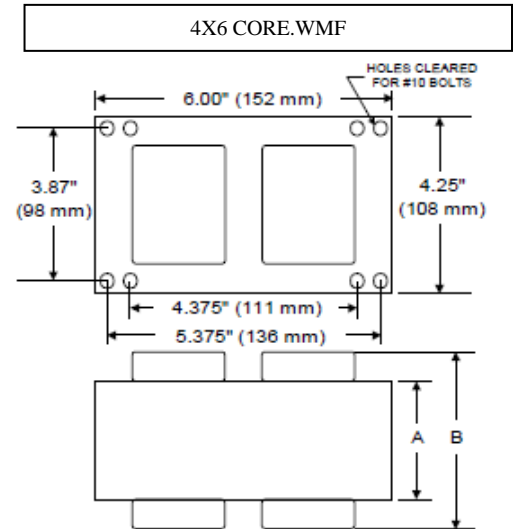
Case Temp (Max): 105 °C
 BTL Distance (Max): 2 ft



BALLAST SPECIFICATIONS

875W M166
Pulse Start Metal Halide
S875M-4
60 Hz CWA

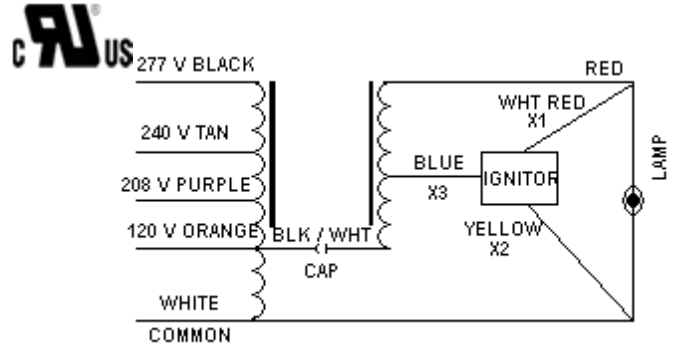
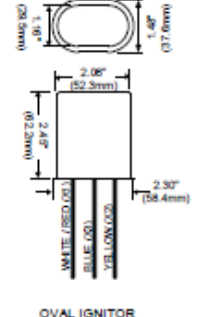
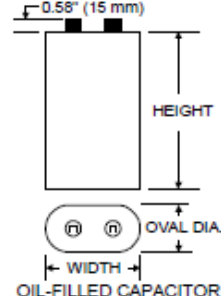
Input Volts	120	208	240	277
Line Current (Amps)				
Operating	8.00	4.50	4.00	3.45
Open Circuit	5.50	3.20	2.75	2.40
Starting	5.50	3.20	2.75	2.40
Recommended Fuse (Amps)	20	12	10	9
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	B	A	A	A
Benchtop Coil Rise	78.6	63.1	67.7	67.2
Power Factor (Min)	90%	90%	90%	90%
Input Watts	950W	950W	950W	950W
Efficiency	92%	92%	92%	92%
NOM. Open Circuit Voltage	420	420	420	420
Input Voltage At Lamp Dropout	65	110	130	150
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	1,650 V	1,650 V	1,650 V	1,650 V
1 Second	2,500 V	2,500 V	2,500 V	2,500 V
Open Circuit Voltage Test (V)	380 – 470	380 – 470	380 – 470	380 – 470
Short Circuit Current Test (A)				
Min	4.30	4.30	4.30	4.30
Secondary Current				
Max	5.30	5.30	5.30	5.30
Min	4.30	2.50	2.15	1.85
Input Current				
Max	6.60	3.80	3.30	2.85
CORE and COIL Specifications				
Dimension (A)	2.80 in	2.80 in	2.80 in	2.80 in
Dimension (B)	4.80 in	4.80 in	4.80 in	4.80 in
Weight	21.0 lbs	21.0 lbs	21.0 lbs	21.0 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	22.0 uf	22.0 uf	22.0 uf	22.0 uf
Volts (Min)	460 V	460 V	460 V	460 V



Capacitor: CA22525 Ignitor: BVS-020

Microfarads: 22.0 uf Case Temp (Max): 105 °C
 Volts (Max): 525 V BTL Distance (Max): 5 ft

Case Temp (Max): 100 °C
 Height (Max): 3.94 in
 Dia (Max): 1.97 in
 Oval Width (Max): 2.97 in



BALLAST SPECIFICATIONS

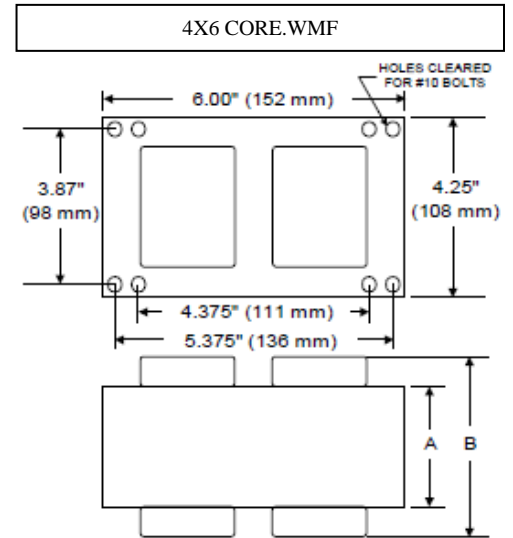
875W M166

Pulse Start Metal Halide

S875M-48

60 Hz CWA

Input Volts	480		
Line Current (Amps)			
Operating	2.00		
Open Circuit	1.60		
Starting	1.30		
Recommended Fuse (Amps)	5		
Regulation			
Line Volts	±10%		
Lamp Watts	±10%		
Temperature Ratings			
Insulation Class	180 (H)		
Coil Temperature Code	C		
Benchtop Coil Rise	81.5		
Power Factor (Min)	90%		
Input Watts	950 W		
Efficiency	92%		
NOM. Open Circuit Voltage	420		
Input Voltage At Lamp Dropout	250		
Min Ambient Starting Temp	-20°F/ -30°C		
60 Hz TEST PROCEDURES			
High Potential Test (Volts)			
1 Minute	2,000 V		
1 Second	2,400 V		
Open Circuit Voltage Test (V)	380 – 460		
Short Circuit Current Test (A)			
Min	4.30		
Secondary Current			
Max	5.30		
Min	1.00		
Input Current			
Max	1.50		
CORE and COIL Specifications			
Dimension (A)	2.82 in		
Dimension (B)	4.85 in		
Weight	21.0 lbs		
Lead Lengths	12"		
Capacitor Requirement			
Microfarads	22.0 uf		
Volts (Min)	460 V		

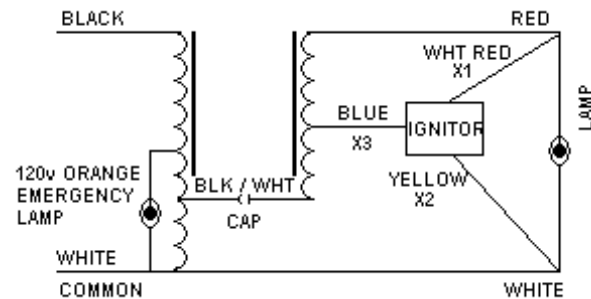
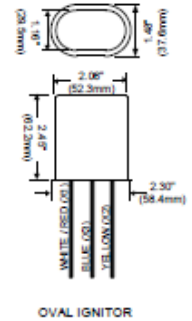
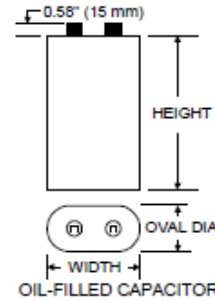


Capacitor: CA22525

Ignitor: BVS-020

Microfarads: 22.0 uf
 Volts (Max): 525 V
 Case Temp (Max): 100 °C
 Height (Max): 3.94 in
 Dia (Max): 1.97 in
 Oval Width (Max): 2.97 in

Case Temp (Max): 105 °C
 BTL Distance (Max): 5 ft



BALLAST SPECIFICATIONS

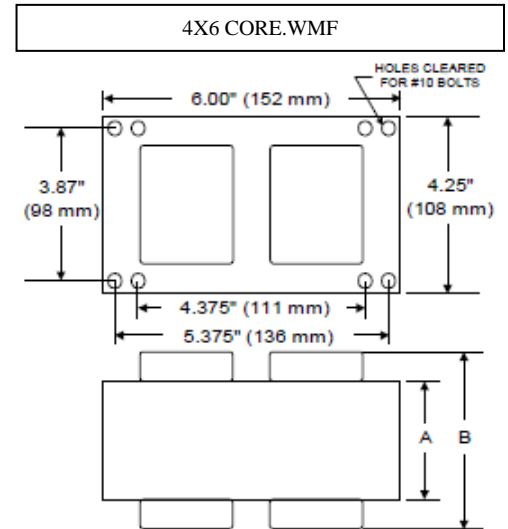
1000W M141

Pulse Start Metal Halide

S1000M-4/PS

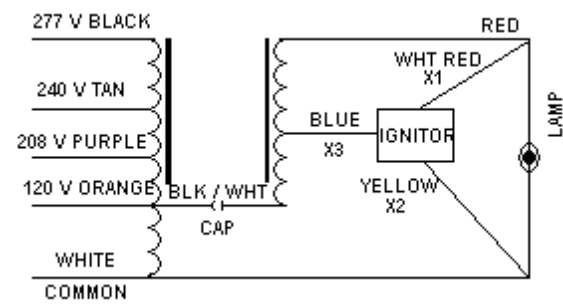
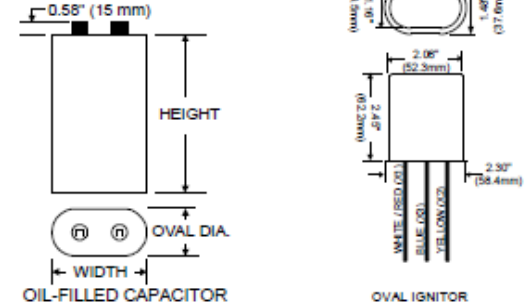
60 Hz CWA

Input Volts	120	208	240	277
Line Current (Amps)				
Operating	9.00	5.20	4.50	3.90
Open Circuit	6.00	3.50	3.00	2.60
Starting	6.00	3.50	3.00	2.60
Recommended Fuse (Amps)	25	15	12	10
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±10%	±10%	±10%	±10%
Temperature Ratings				
Insulation Class	180 (H)	180 (H)	180 (H)	180 (H)
Coil Temperature Code	D	A	B	B
Benchtop Coil Rise	88.2	73.5	78.4	78.2
Power Factor (Min)	90%	90%	90%	90%
Input Watts	1082 W	1082 W	1082 W	1082 W
Efficiency	92%	92%	92%	92%
NOM. Open Circuit Voltage	420	420	420	420
Input Voltage At Lamp Dropout	70	125	140	160
Min Ambient Starting Temp	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	1,850 V	1,850 V	1,850 V	1,850 V
1 Second	2,200 V	2,200 V	2,200 V	2,200 V
Open Circuit Voltage Test (V)	380 – 460	380 – 460	380 – 460	380 – 460
Short Circuit Current Test (A)				
Min	4.75	4.75	4.75	4.75
Secondary Current				
Max	5.85	5.85	5.85	5.85
Min	4.80	2.80	2.40	2.10
Input Current				
Max	7.20	4.20	3.60	3.15
CORE and COIL Specifications				
Dimension (A)	2.80 in	2.80 in	2.80 in	2.80 in
Dimension (B)	4.80 in	4.80 in	4.80 in	4.80 in
Weight	21.0 lbs	21.0 lbs	21.0 lbs	21.0 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	24.0 uf	24.0 uf	24.0 uf	24.0 uf
Volts (Min)	480 V	480 V	480 V	480 V



Capacitor: CA24480	Ignitor: BVS-020
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Microfarads: 24.0 uf	Case Temp (Max): 105 °C
Volts (Max): 480 V	BTL Distance (Max): 5 ft
Case Temp (Max): 100 °C	
Height (Max): 4.03 in	
Dia (Max): 1.97 in	
Oval Width (Max): 2.97 in	



BALLAST SPECIFICATIONS

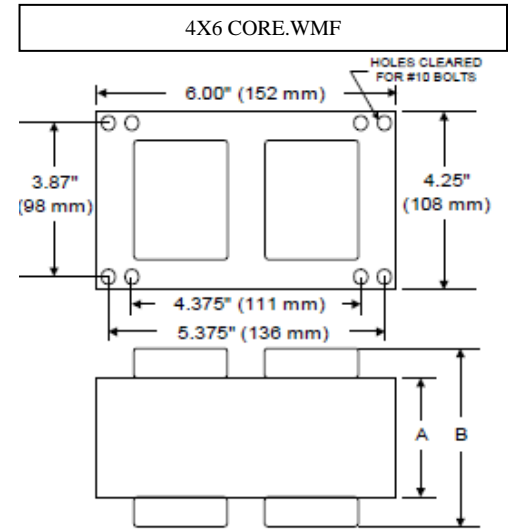
1000W M141

Pulse Start Metal Halide

S1000M-48/12/PS

60 Hz CWA

Input Volts	480		
Line Current (Amps)			
Operating	2.25		
Open Circuit	1.60		
Starting	1.50		
Recommended Fuse (Amps)	6		
Regulation			
Line Volts	±10%		
Lamp Watts	±10%		
Temperature Ratings			
Insulation Class	180 (H)		
Coil Temperature Code	D		
Benchtop Coil Rise	85.0		
Power Factor (Min)	90%		
Input Watts	1082 W		
Efficiency	92%		
NOM. Open Circuit Voltage	420		
Input Voltage At Lamp Dropout	300		
Min Ambient Starting Temp	-20°F/ -30°C		
60 Hz TEST PROCEDURES			
High Potential Test (Volts)			
1 Minute	2,000 V		
1 Second	2,400 V		
Open Circuit Voltage Test (V)	375 – 460		
Short Circuit Current Test (A)			
Min	4.75		
Secondary Current			
Max	5.85		
Min	1.10		
Input Current			
Max	1.80		
CORE and COIL Specifications			
Dimension (A)	2.82 in		
Dimension (B)	4.85 in		
Weight	21.0 lbs		
Lead Lengths	12"		
Capacitor Requirement			
Microfarads	24.0 uf		
Volts (Min)	480 V		



Capacitor: CA24480

Ignitor: BVS-020

Microfarads: 24.0 uf	Case Temp (Max): 105 °F
Volts (Max): 480 V	BTL Distance (Max): 5 ft
Case Temp (Max): 100 °C	
Height (Max): 4.03 in	
Dia (Max): 1.97 in	
Oval Width (Max): 2.97 in	

