

This Is An Original Product From Fulham Co., Inc

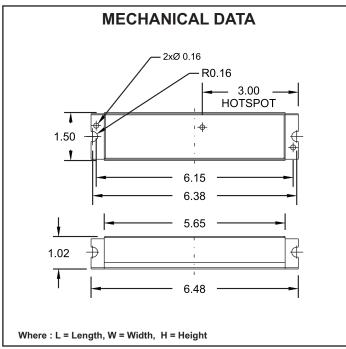
Description: WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, High Frequency, Light Weight, Also Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.

REFER TO LAMP WATTS/TYPE

ELECTRICAL DATA

| INPUT VOLT: 120V ± 10% | , 50/60Hz | | - | | | - | - | - |
|------------------------|-----------|------------------|----------|---------------|--------------|--------|---------|---------|
| LAMP WATTS/TYPE | T5CR40W | CR32W | T5CR22W | 22+32 CR | F24T5 | F54T5 | * F15T8 | * F15T8 |
| LAMPS OPERATED | | | • | 1 | | | 2 | 3 |
| INPUT WATTS | 36 | 28 | 26 | 36 | 25 | 56 | 28 | 40 |
| LINE CURRENT: | 0.33 | 0.25 | 0.23 | 0.32 | 0.23 | 0.50 | 0.25 | 0.35 |
| POWER FACTOR | 0.93 | 0.93 | 0.94 | 0.93 | 0.92 | 0.94 | 0.92 | 0.93 |
| BALLAST FACTOR | 0.87 | 0.79 | 1.03 | 0.68 | 1.02 | 0.99 | 1.13 | 0.90 |
| EFFICACY FACTOR | 2.38 | 2.83 | 4.02 | 1.91 | 4.06 | 1.77 | 4.06 | 2.27 |
| THD | 38% | 39% | 36% | 37% | 41% | 34% | 39% | 36% |
| EMI/RFI COMPLIANCE | | | FCC I | PART 18-A | (Non-Cons | umer) | | |
| SOUND RATING | | | | " <i>F</i> | ۹ " | | | |
| BALLAST TYPE | | | | INSTAN | TSTART | | | |
| VOLTAGE TRANSIENTS | | | | ANSI | 62.41 | | | |
| INPUT/PROTECTION | | | | FU | SE | | | |
| MIN. OPERATING TEMP | | -30 °C (-20 °F) | | | | | | |
| MAX. CASE TEMP | | 70 °C (158 °F) | | | | | | |
| APPROVALS/CLASS | | | UL LISTE | ED, CLASS " F | ⊃", 1 OR 2 C | UTDOOR | • | |



| W | WIRING DIAGRAMS | | | | | | | | | |
|---------------------------------------|---|--|--|--|--|--|--|--|--|--|
| WIRE BLACK WHITE RED BLUE YELLOW BROW | | | | | | | | | | |
| LENGTH - INCHES | LENGTH - INCHES 18 ± 1" 18 ± 1" 36 ± 1" - 36 ± 1" - | | | | | | | | | |

FOR WIRING DIAGRAM, PLEASE REFER TO FULHAM'S CATALOG

NOTE : This Ballast Must Be Grounded

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2006-20SP-1 rev Y



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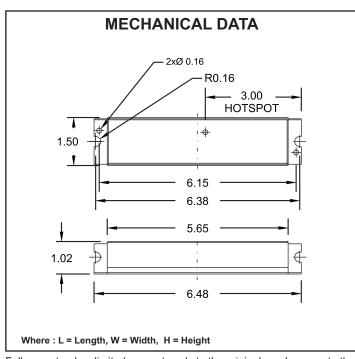
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This Ballast Will Operate Following Lamps.

REFER TO LAMP WATTS/TYPE

ELECTRICAL DATA

| INPUT VOLT: 120V ± 10%, 50/60Hz | | | | | | | | |
|--|------------------------------------|--|--|---|---|---|--|--|
| FT24W | FT36W | FT40W | T5CR55W | * F32T8 | * F60T8HO | *CFT18W | F15T8 | |
| | , | 1 | | 1 | 1 | 2 | 1 | |
| 24 | 31 | 41 | 53 | 38 | 61 | 27 | 18 | |
| 0.22 | 0.28 | 0.37 | 0.47 | 0.34 | 0.54 | 0.25 | 0.16 | |
| 0.91 | 0.92 | 0.93 | 0.93 | 0.93 | 0.94 | 0.92 | 0.91 | |
| 1.00 | 0.81 | 0.89 | 1.33 | 1.40 | 1.14 | 0.72 | 1.18 | |
| 4.12 | 2.65 | 2.16 | 2.50 | 3.69 | 1.87 | 2.67 | 6.56 | |
| 41% | 40% | 37% | 36% | 36% | 34% | 40% | 42% | |
| | | FCC | PART 18-A (| (Non-Cons | umer) | | | |
| | | | " <i>P</i> | ۱, " | | | | |
| | | | INSTANT | ΓSTART | | | | |
| | | | ANSI | 62.41 | | | | |
| | | | FU | SE | | | | |
| | | | -30 °C (| -20 ⁰ F) | | | | |
| | 70 °C (158 °F) | | | | | | | |
| UL LISTED, CLASS " P ", 1 OR 2 OUTDOOR | | | | | | | | |
| | | * UL /cUL L | ISTED, CLASS | S " P ", 1 OR 2 | 2 OUTDOOR | | | |
| | 24 0.22 0.91 1.00 4.12 | FT24W FT36W 24 31 0.22 0.28 0.91 0.92 1.00 0.81 4.12 2.65 | FT24W FT36W FT40W 24 31 41 0.22 0.28 0.37 0.91 0.92 0.93 1.00 0.81 0.89 4.12 2.65 2.16 41% 40% 37% FCCC | FT24W FT36W FT40W T5CR55W 1 24 31 41 53 0.22 0.28 0.37 0.47 0.91 0.92 0.93 0.93 1.00 0.81 0.89 1.33 4.12 2.65 2.16 2.50 41% 40% 37% 36% FCC PART 18-A ("A INSTANT ANSI FU -30 °C (70 °C (UL LISTED, CLASS " F | FT24W FT36W FT40W T5CR55W * F32T8 1 1 1 1 24 31 41 53 38 0.22 0.28 0.37 0.47 0.34 0.91 0.92 0.93 0.93 0.93 1.00 0.81 0.89 1.33 1.40 4.12 2.65 2.16 2.50 3.69 41% 40% 37% 36% 36% FCC PART 18-A (Non-Constant Part And Part Part Part Part Part Part Part Part | FT24W FT36W FT40W T5CR55W * F32T8 * F60T8HO 1 1 1 1 1 24 31 41 53 38 61 0.22 0.28 0.37 0.47 0.34 0.54 0.91 0.92 0.93 0.93 0.93 0.94 1.00 0.81 0.89 1.33 1.40 1.14 4.12 2.65 2.16 2.50 3.69 1.87 41% 40% 37% 36% 36% 34% FCC PART 18-A (Non-Consumer) "A" INSTANT START ANSI 62.41 FUSE -30 °C (-20 °F) 70 °C (158 °F) | FT24W FT36W FT40W T5CR55W * F32T8 * F60T8HO *CFT18W 24 31 41 53 38 61 27 0.22 0.28 0.37 0.47 0.34 0.54 0.25 0.91 0.92 0.93 0.93 0.93 0.94 0.92 1.00 0.81 0.89 1.33 1.40 1.14 0.72 4.12 2.65 2.16 2.50 3.69 1.87 2.67 41% 40% 37% 36% 36% 34% 40% FCC PART 18-A (Non-Consumer) "A" INSTANT START ANSI 62.41 FUSE -30 °C (-20 °F) 70 °C (158 °F) UL LISTED, CLASS " P", 1 OR 2 OUTDOOR | |



| W | WIRING DIAGRAMS | | | | | | | |
|---|-----------------|--|--|--|--|--|--|--|
| WIRE BLACK WHITE RED BLUE YELLOW BRO | | | | | | | | |
| LENGTH - INCHES 18 ± 1" 18 ± 1" 36 ± 1" - 36 ± 1" - | | | | | | | | |

FOR WIRING DIAGRAM,
PLEASE REFER TO FULHAM'S CATALOG

NOTE : This Ballast Must Be Grounded

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2006-20SP-2 rev Y



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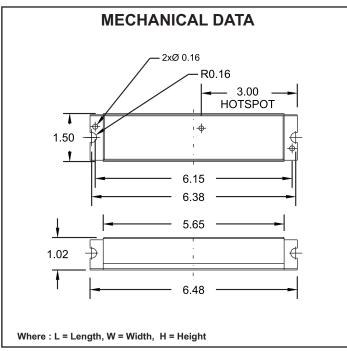
Description: WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, High Frequency, Light Weight, Also Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.

REFER TO LAMP WATTS/TYPE

ELECTRICAL DATA

| INPUT VOLT: 120V ± 10%, 50 | 0/60Hz | | | - | | | | | |
|----------------------------|--|---|---------|-----------|------------|---------|-------|-----------|--|
| LAMP WATTS/TYPE | * F17T8 | * F17T8 | * F32T8 | * F32T8 | * CR40WT9 | F24T5HO | F42T6 | * F72T8HO | |
| LAMPS OPERATED | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | |
| INPUT WATTS | 33 | 21 | 38 | 61 | 36 | 40 | 61 | 73 | |
| LINE CURRENT: | 0.30 | 0.19 | 0.34 | 0.54 | 0.32 | 0.36 | 0.54 | 0.65 | |
| POWER FACTOR | 0.93 | 0.92 | 0.93 | 0.94 | 0.93 | 0.94 | 0.94 | 0.94 | |
| BALLAST FACTOR | 1.13 | 1.48 | 1.40 | 1.06 | 0.81 | 0.73 | 0.97 | 1.05 | |
| EFFICACY FACTOR | 3.43 | 7.05 | 3.69 | 1.74 | 2.25 | 1.82 | 1.59 | 1.43 | |
| THD | 37% | 40% | 36% | 33% | 37% | 36% | 33% | 32% | |
| EMI/RFI COMPLIANCE | | | FCC | PART 18-A | (Non-Consu | mer) | | | |
| SOUND RATING | | | | ıı | Α" | | | | |
| BALLAST TYPE | | | | INSTAN | IT START | | | | |
| VOLTAGE TRANSIENTS | | | | ANS | l 62.41 | | | | |
| INPUT/PROTECTION | | | | FU | JSE | | | | |
| MIN. OPERATING TEMP | -30 °C (-20 °F) | | | | | | | | |
| MAX. CASE TEMP | 70 °C (158 °F) | | | | | | | | |
| APPROVALS/CLASS | UL LISTED, CLASS " P ", 1 OR 2 OUTDOOR | | | | | | | | |
| APPROVALS/CLASS | | * UL /cUL LISTED, CLASS " P ", 1 OR 2 OUTDOOR | | | | | | | |



| V | WIRING DIAGRAMS | | | | | | | |
|---|-----------------|--|--|--|--|--|--|--|
| WIRE BLACK WHITE RED BLUE YELLOW BROW | | | | | | | | |
| LENGTH - INCHES 18 ± 1" 18 ± 1" 36 ± 1" - 36 ± 1" - | | | | | | | | |

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2006-20SP-3 rev Y



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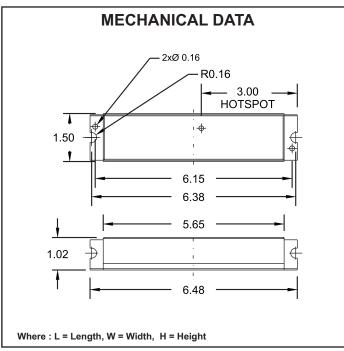
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This Ballast Will Operate Following Lamps.

REFER TO LAMP WATTS/TYPE

ELECTRICAL DATA

| | | | | | | - | • | | | |
|---------------------------|--|---|---------|-------------|----------------------|-------|---------|--------|--|--|
| INPUT VOLT: 120V ± 10%, 5 | INPUT VOLT: 120V ± 10%, 50/60Hz | | | | | | | | | |
| LAMP WATTS/TYPE | F39T5HO | * F20T12 | F24T5HO | CFTR32W | 2D38 | F25T8 | CFTR26W | CFQ26W | | |
| LAMPS OPERATED | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | | |
| INPUT WATTS | 38 | 30 | 40 | 34 | 29 | 30 | 27 | 29 | | |
| LINE CURRENT: | 0.34 | 0.27 | 0.35 | 0.30 | 0.26 | 0.27 | 0.24 | 0.27 | | |
| POWER FACTOR | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.92 | 0.92 | | |
| BALLAST FACTOR | 0.88 | 0.94 | 0.79 | 0.96 | 0.86 | 1.44 | 1.02 | 1.01 | | |
| EFFICACY FACTOR | 2.31 | 3.13 | 1.98 | 2.85 | 2.96 | 4.88 | 3.79 | 3.47 | | |
| THD | 37% | 38% | 37% | 38% | 41% | 39% | 41% | 42% | | |
| EMI/RFI COMPLIANCE | | | FCC | PART 18-A (| (Non-Consu | ımer) | | | | |
| SOUND RATING | | | | " <i>F</i> | A " | | | | | |
| BALLAST TYPE | | | | INSTAN | TSTART | | | | | |
| VOLTAGE TRANSIENTS | | | | ANSI | 62.41 | | | | | |
| INPUT/PROTECTION | | | | FU | SE | | | | | |
| MIN. OPERATING TEMP | | | | -30 °C (| -20 ⁰ F) | | | | | |
| MAX. CASE TEMP | 70 °C (158 °F) | | | | | | | | | |
| APPROVALS/CLASS | UL LISTED, CLASS " P ", 1 OR 2 OUTDOOR | | | | | | | | | |
| APPROVALS/CLASS | | * UL /cUL LISTED, CLASS " P ", 1 OR 2 OUTDOOR | | | | | | | | |



| W | WIRING DIAGRAMS | | | | | | | |
|---|-----------------|--|--|--|--|--|--|--|
| WIRE BLACK WHITE RED BLUE YELLOW BRO | | | | | | | | |
| LENGTH - INCHES 18 ± 1" 18 ± 1" 36 ± 1" - 36 ± 1" - | | | | | | | | |

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2006-20SP-4 rev Y



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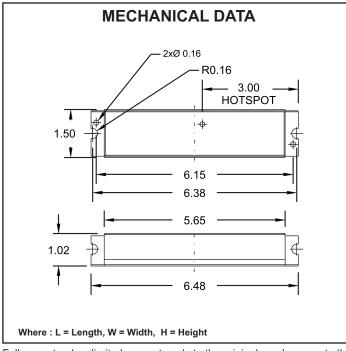
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This Ballast Will Operate Following Lamps.

REFER TO LAMP WATTS/TYPE

ELECTRICAL DATA

| INPUT VOLT: 120V ± 10%, 50/60 |)Hz | | | | | | | |
|-------------------------------|---------|---|-----------------|-----------|--|--|--|--|
| LAMP WATTS/TYPE | T9CR22W | | | | | | | |
| LAMPS OPERATED | 1 | | | | | | | |
| INPUT WATTS | 19 | | | | | | | |
| LINE CURRENT: | 0.17 | | | | | | | |
| POWER FACTOR | 0.93 | | | | | | | |
| BALLAST FACTOR | 0.98 | | | | | | | |
| EFFICACY FACTOR | 5.25 | | | | | | | |
| THD | 39% | | | | | | | |
| EMI/RFI COMPLIANCE | | FCC P | ART 18-A (Non-0 | Consumer) | | | | |
| SOUND RATING | | | "A" | | | | | |
| BALLAST TYPE | | | INSTANT STA | RT | | | | |
| VOLTAGE TRANSIENTS | | | ANSI 62.41 | | | | | |
| INPUT/PROTECTION | | | FUSE | | | | | |
| MIN. OPERATING TEMP | | -30 °C (-20 °F) | | | | | | |
| MAX. CASE TEMP | | 70 °C (158 °F) | | | | | | |
| APPROVALS/CLASS | | UL LISTED, CLASS " P ", 1 OR 2 OUTDOOR | | | | | | |
| APPROVALS/CLASS | | * UL /cUL LISTED, CLASS " P ", 1 OR 2 OUTDOOR | | | | | | |



| W | WIRING DIAGRAMS | | | | | | | |
|---|-----------------|--|--|--|--|--|--|--|
| WIRE BLACK WHITE RED BLUE YELLOW BRO | | | | | | | | |
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