



# Shams

**SHAMS CORPORATION**  
**HYOGO JAPAN**



# VENTILATING FANS

**EASY INSTALLATION!**  
**POWERFUL!**  
**COMFORTABLE!**



ROUND TYPE  
(6" & 8")



SQUARE TYPE  
(6", 8", 10" & 12")



AUTO SHUTTER TYPE  
(6")

## Specification for "Shams" Ventilating Fans

MODEL	V	Hz	Power consumption (W)	Speed (R/M)	Air Delivery (CMM)	weight (Kg)
SVF-6R	240	50	14	1900	3.5	0.62
SVF-8R	240	50	23	1850	6.5	1.10
SVF-15FT	240	50	26	1900	4.0	0.98
SVF-15	240	50	25	1400	4.0	1.27
SVF-20	240	50	33	1250	8.0	1.61
SVF-25	240	50	40	1200	12.0	1.88
SVF-30	240	50	43	1100	16.0	1.85

Insulation class-E



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# Undercabinet Light



*Best Quality!*

- 1 X 10W
- 1 X 15W
- 1 X 20W

Specification for "Shams" Undercabinet Light

UNDERCAB.	10w	15w	20w
RATED VOLT	240	240	240
RATED FREQUENCY	50Hz	50Hz	50Hz
INPUT CURRENT	0.23A	0.33A	0.37A
INPUT POWER	16W	21W	27W
POWER FACTOR	0.36	0.36	0.36
INSULATION RESISTANCE	>120MΩ	>120MΩ	>120MΩ
WITHSTANDING VOLTAGE	1500V/Min.	1500V/Min.	1500V/Min.
INSULATION CLASS(tw)	105	105	105

**with "TOSHIBA"/"NEC" Lamp**

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# Fluorescent Lamps

## PRE-HEAT START FLUORESCENT LAMPS

A "starter" switch that operates only during the starting period is used with pre-heat start lamps to pre-heat the cathodes before starting.

The use of this starter permits more economical ballast designs. Of all fluorescent lamps, this is the most economical type with long life, high lumen output and low initial cost.



Product Order Code	Color Temp (K)	Watts (W)	Bulb Shape	Bulb Dia. (mm)	Bulb Length (mm)	Base	Rated Lamp Current(A)	Initial Lumens (lm)	Average Life (h)	Color Rendering Index(Ra)	Std.Pkg.Qty.		Color Description
											Inner	Outer	

### STRAIGHT TYPE

FL4 D	6,500	4	T-5	15.5	134.5	G5	0.162	95	6,000	74	100	600	Daylight
FL6 D	6,500	6	T-5	15.5	210.5	G5	0.147	220	7,500	74	100	600	Daylight
FL8 D	6,500	8	T-5	15.5	287.0	G5	0.170	350	7,500	74	100	600	Daylight
FL10 D	6,500	10	T-8	25.5	330.0	G13	0.230	440	7,500	74	25	200	Daylight
FL15 D	6,500	15	T-8	25.5	436.0	G13	0.300	760	7,500	74	25	200	Daylight

## BLACK LIGHT

This lamp employs photochemical and scintillation action to efficiently radiate near-ultraviolet rays (at a peak wave length of 352 nm) while emitting only a small amount of visible light.

Since near-ultraviolet rays attract most nocturnal flying insects, this lamp can be used as the light source in insect traps.



Product Order Code	Watts (W)	Bulb Shape	Bulb Dia. (mm)	Bulb Length (mm)	Base	Rated Lamp Current(A)	Average Life (h)	UV Energy (W)	UV Irradiance (μ/cm2)	Std.Pkg.Qty.	
										Inner	Outer

FL4 BL	4	T-5	15.5	134.5	G5	0.162	2,000	0.2	2.1	100	600
FL6 BL	6	T-5	15.5	210.5	G5	0.147	2,000	0.6	6.4	100	600
FL8 BL	8	T-5	15.5	287	G5	0.170	2,000	0.75	8.0	100	600
FL10 BL	10	T-8	25.5	330	G13	0.230	3,000	0.9	9.5	25	200
FL15 BL	15	T-8	25.5	436	G13	0.300	4,000	1.5	19	25	200
FL20S - BL	20	T-10	32.5	588.7	G13	0.360	5,000	2.9	30	---	25
FL40S - BL	40	T-10	32.5	1198	G13	0.420	5,000	6.0	53	---	25

**Shams**  
Export Agency

TOSHIBA LIGHTING AND TECHNOLOGY CORPORATION,  
TOKYO, JAPAN

MADE IN JAPAN

# TIME SWITCH

## 30A 1P-ST SWITCH



### TYPICAL APPLICATION

Irrigation pump operation.  
 Distribution of feed for poultry farms.  
 Controlling lights and signs.  
 Air conditioning machinery.  
 Vending machines.  
 Drying machines.  
 Street lighting systems.  
 etc.



- ① MANUAL SWITCH
- ② TIME DIAL
- ③ TIME INDICATOR
- ④ SPARE TRIPPER REST
- ⑤ FREQUENCY SELECTOR
- ⑥ TRIPPER
- ⑦ TERMINAL BLOCK
- ⑧ CONDUIT
- ⑨ PILOT LAMP

### HOW TO OPEN THE COVER



### FREQUENCY SELECTOR



### HOW TO SET

#### (AUTOMATIC PROGRAMMING)

Time dial drivers as clockwise.  
 Set actual time with an INDICATOR(a), turning time dial.

Insert trippers into desired time dial hole.  
 Orange tripper operates as switching On.  
 White tripper operates as switching OFF.

#### MANUAL OPERATION

Manual switching, ON & OFF, can be operated without disturbing programmed time schedule.



### CHARACTERISTICS

1. Minimum time set-up for 15 minutes interval.
2. manual switching function will allow to switch "ON" or "OFF" in advance of a preset time.
3. 24 hour mode-once the time programming is set, it will repeat every day.
4. Easy setting of time program by simply inserting the trippers into the time dial hole, the program can be set.
5. Steel hard case.

On the occasion of **ELECTRIC POWER FAILURE**, time switch will be stopped at the same time. Then, You need to adjust the dial to the correct time after recovering of the electricity.

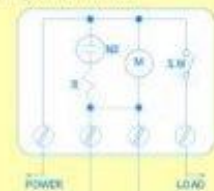
### SPECIFICATION

MODEL NO.	TM-30A
RATED VOLTAGE	110-250V.(Request us when ordering)
RATED FREQUENCY	50-60HZ,(Universal, by selector switch)
LOAD CAPACITY	RESISTANCE LOAD . . . 30Amp.
	LIGHTING LOAD . . . 25 Amp.
	MOTOR LOAD . . . 110V/1500W
	(power factor over 0.5) 220V/3000W
PROGRAMMING CYCLE	24 HOUR
MINIMUM TIME SET-UP	15 MINUTES
OPERATION	ON-OFF 96 TIMES
SWITCH	SINGLE POLE, SINGLE THROW
WIRING	1Ø 2W
VOLTAGE REGULATION	±10% OF RATED VOLTAGE
OPERATIVE TEMPERATURE	-10°C / +50°C
DIMENSION	94×145×60mm
ELECTRIC CONSUMPTION	2W
PACKING	20pcs. to a carton about 1' -4" cft.
	15Kgs.

### WIRING DIAGRAM

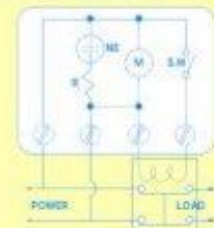
#### UNDER RATING LOAD

(Recommended to use with electro magnetic switch.)



#### OVER RATING LOAD

(Electro Magnetic switch must be used in combination.)



**Shams**

Export Agency

**kawamura**

KAWAMURA ELECTRIC INC.

MADE IN JAPAN