

# 48\*48mm DIN-SIZED ON DELAY ELECTRONIC TIMER

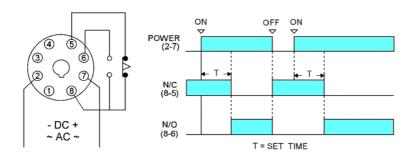
( Mono Working Voltage/ Mono Time Range )

( Mono Working Voltage/ Mono Time Range )				
	Model No.	ЈНВ-1 , ЈНВ-2		
Classificati	on			
Appearance & Dimensions		JA PE.JHB- 2 IC TIMER VOLT: 220VAG		
	Dimensions	<u>FIG. 1</u>		
	Rated frequency	50/60Hz +/- 1Hz		
	Rated voltage	24VAC/DC, 48VAC, 110VAC, 220 • 240VAC		
Supply	Disengaging value of input voltage	JHB-1: 32 +/-3% JHB-2: 50 +/-3%		
	Supply tolerance	85% to 110%		
	Power consumption	240VAC/ 15VA, 110VAC/ 5VA, 24VAC/ 1.5VA, 24VDC/ 1VA		
	Relay contacts	JHB-1: SPDT; JHB-2: mode A (DPDT) or mode B ( instantaneous contact + SPDT) selectable by DIP switch		
	Contact capacity	7A250VAC Resistive load, (AC-12)		
Output	Rated value for limiting continuous current Ith	7A/250VAC, 7A30VDC		
	Mechanical life	10,000,000 operations		
	Max. permitted number of operations per hour	600 (at I max. 250VAC resistive load)		
	Electrical life	100,000 operations		
	Conditional short-circuit current	Shall be connected in series with the short circuit protective device like as 10A Fuse		
	Repetition accuracy	+/-0.2% Max		
	Setting accuracy	+/-5% Max		
Accuracy	Voltage accuracy	+/- 0.5% Max		
	Temperature accuracy	+/-2% Max		
	Reset time	0.1 Sec Max		
	Time range	Wide variety of timing ranges: 1S, 3S, 6S, 10S, 30S, 60S, 3M, 6M, 10M, 30M, 60M, 3H, 6H, 10H		
	Housing material	self - extinguishing		
	Ambient temperature	-10 ~ +45Deg.C		
	Ambient humidity	85% Max		
	Storage temperature	-25 ∼ +55Deg.C		
General	Transport temperature	-25 ∼ +70Deg.C		
spec.	Degree of pollution	2		
эрсс.	Degree of protection	Housing: IP40, Socket: IP20		
	Overvoltage category	III		
	Dielectric strength	2000V 1 Min and Impulse 4800V		
	Mounting position	Panel mounted by clip		
		Base mounted on socket		
Remarks	emarks DO NOT OPERATE (OR TOUCH TO) DIP SWITCH WHEN TIMER IS CONNECTED TO POWER			



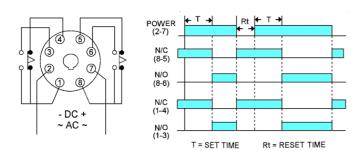
## **CONNECTION DIAGRAM & TIMING CHART**

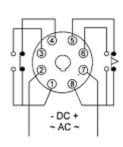
JHB-1: SPDT

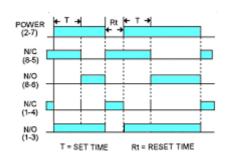


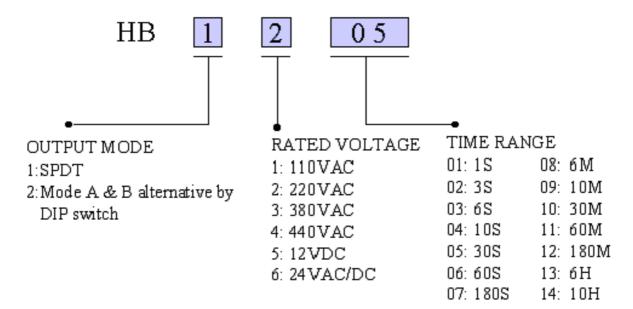
JHB-2: MODE A: DPDT

JHB-2 MODE B: INSTANTANEOUS CONTACT+SPDT











# 48\*48mm DIN-SIZED ON DELAY ELECTRONIC TIMER

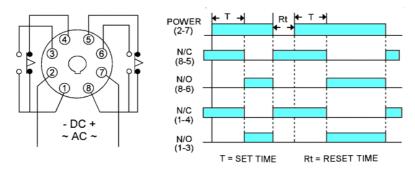
(Multi Time Range/Mono Working Voltage)

	( Multi Time Range/ Mono Working Voltage )			
	Model No.	ICD 41A ICD 51A		
CI		JSB-41A , JSB-51A		
Classificati	ion			
Appearance & Dimensions		UP  INVESTIGATION  OUT  OUT  OUT  OUT  OUT  OUT  OUT  O		
	Dimensions	<u>FIG. 1</u>		
	Rated frequency	50/60Hz +/- 1Hz		
	Rated voltage	12VAC/DC, 24VAC/DC, 48VAC, 110VAC, 220 · 240VAC		
Supply	Disengaging value of	40 +/-3%		
Supply	input voltage			
	Supply tolerance	85% to 110%		
	Power consumption	240VAC/ 15VA, 110VAC/ 5VA, 24VAC/ 1.5VA, 24VDC/ 1VA		
	Relay contacts	Mode A (DPDT) or mode B (instantaneous contact +SPDT)selectable by DIP switch		
	Contact capacity	7A250VAC Resistive load, (AC-12)		
	Rated value for limiting continuous current Ith	7A/250VAC, 7A30VDC		
Output	Mechanical life	10,000,000 operations		
	Max. permitted number of operations per hour	600 (at I max. 250VAC resistive load)		
	Electrical life	100,000 operations		
	Conditional short-circuit current	Shall be connected in series with the short circuit protective device like as 10A Fuse		
	Repetition accuracy	+/- 0.2% Max		
	Setting accuracy	+/- 5% Max		
Accuracy	Voltage accuracy	+/- 0.5% Max		
	Temperature accuracy	+/- 2% Max		
	Reset time	0.1 Sec Max		
	Time range	JSB-41A: 1S-10S-1M-10M; JSB-51A: 1M-10M-1H-10H; (selectable by DIP switch "T")		
	Housing material	self - extinguishing		
	Ambient temperature	-10 ~ +45Deg.C		
	Ambient humidity	85% Max		
	Storage temperature	-25 ∼ +55Deg.C		
General spec.	Transport temperature	-25 ~ +70Deg.C		
	Degree of pollution	2		
P. S.	Degree of protection	Housing: IP40, Socket: IP20		
	Overvoltage category	III		
	Dielectric strength	2000V 1 Min and Impulse 4800V		
	Mounting position	Panel mounted by clip		
Domasila	DO NOT OBED ATE (OR TOLICULA	Base mounted on socket		
Remarks	DO NOT OPERATE (OR TOUCH I	O) DIP SWITCH WHEN TIMER IS CONNECTED TO POWER		

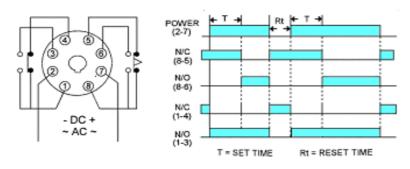


# **CONNECTION DIAGRAM & TIMING CHART**

## **MODEA: DPDT**



## MODE B: INSTANTANEOUS CONTACT+SPDT

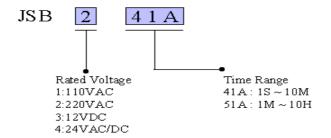


# **TIMING RANGE**

MODEL	TIMING	DIP SWITCH "T" (TIME RANGE) SETTING				
NO.	RANGE	0 0	1 0	0 1	1 1	
JSB - 41A	SEC TO MIN	0.05SEC TO 1SEC	0.12SEC TO 10SEC	0.65SEC TO 1MIN	6SEC TO 10MIN	
JSB - 51A	MIN TO HR	0.05MIN TO 1MIN	0.12MIN TO 10MIN	0.6MIN TO 1HOUR	1MIN TO 10HOUR	

# **OUTPUT MODE SETTING**

Mode A	DPDT (2 Time - Limit Contacts)
Mode B	Instantaneous Contact + SPDT





# 48\*48mm DIN-SIZED ON DELAY ELECTRONIC TIMER

(Multi Function/Multi Time Range / 24-240 Universal Working Voltage)

	Model No. IMB-41A JMB-51A			
_	Widdel 140.	JMB-41A ,JMB-51A JMB-41A-MD ,JMB-51A-MD		
Classificat	tion		JMB-51A-MS	
Ciassilica	tion	JAID THE WIS,	3111 3111 HIO	
	Appearance & Dimensions	ON UP  T  JKN VOLT: 24-250VAC/DC		
	Dimensions	FIG	<u>G. 1</u>	
	Rated frequency	50/60Hz	z +/-1Hz	
	Rated voltage	24~240VAC/	DC universal	
Supply	Disengaging value of input voltage	8.5VA	AC/DC	
	Supply tolerance	85% to	110%	
	Power consumption	240VAC/ 10VA, 24VAC	/ 1.5VA, 24VDC/ 1.5VA	
	Relay contacts	SPDT or DPDT ( Time-lir	mit contacts ) : 7A250VAC	
	Contact capacity	7A250VAC Resistive load,(AC-12)	UL: 10A250VAC Resistive load, (AC-12)	
	Rated value for limiting continuous current Ith	7A/250VAC, 7A30VDC	UL: 10A/250VAC, 10A30VDC	
Output	Mechanical life	10,000,000 operations		
	Max. permitted number of operations per hour	600 (at I max. 250VAC resistive load)		
	Electrical life	100,000 operations		
	Conditional short-circuit current	Shall be connected in series with the short circuit protective devic like as 10A Fuse		
	Repetition accuracy	+/- 0.2	% Max	
	Setting accuracy	+/- 5% Max		
Accuracy	Voltage accuracy	+/-0.5	% Max	
	Temperature accuracy		% Max	
	Reset time		ec Max	
	T	JMB-41A: 1S-10S-1M-10M;		
	Time range	JMB-51A: 1M-10M-1H-10H; (selectable by DIP switch "T")		
	Housing material		inguishing	
	Ambient temperature		45Deg.C	
	Ambient humidity		Max	
	Storage temperature		55Deg.C	
~	Transport temperature		70Deg.C	
General	Degree of pollution		2	
spec.	Degree of protection	Housing : IP40	), Socket: IP20	
	Overvoltage category	I	II	
	Dielectric strength	2000V 1 Min an	d Impulse 4800V	
	Mounting position	Panel mounted by clip		
			ed on socket	
Remarks	DO NOT OPERATE (OR TOUCH	TO) DIP SWITCH WHEN TIMER	. IS CONNECTED TO POWER	



# **CONNECTION DIAGRAM**

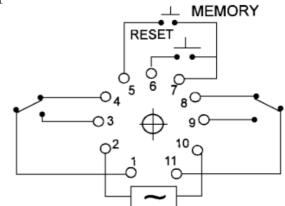
JMB-41A / JMB-51A

**DPDT** 

: PIN# 2-10 POWER : PIN# 5-7 MEMORY : PIN# 6-7 RESET

: PIN# 8-11 & 1-4 N/C

: PIN# 9-11 & 1-3 N/O

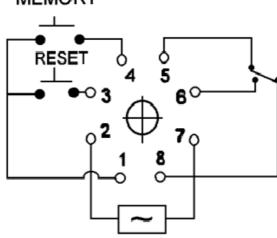


Note: Do not apply any Voltage on PIN# 5,6,7

**SPDT** 

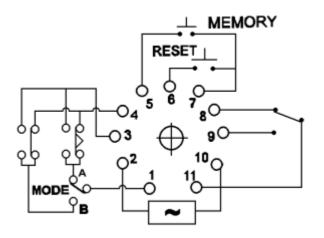
N/O

POWER: PIN# 2-7 MEMORY: PIN# 1-4 RESET: PIN# 1-3 N/C : PIN# 8-5 : PIN# 8-6 MEMORY



Note: Do not apply any Voltage on PIN# 1,3,4

## JMB-41A-MD / JMB-51A-MD



## **JMB-41A-MD/JMB-51A-MD(11-PIN)**

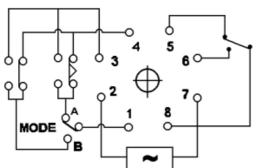
**POWER** :PIN#2-10 **MEMORY** :PIN#5-7 :PIN#6-7 RESET N/C :PIN#8-11&1-4

N/O :PIN9-11&1-3

Note: Do not apply any voltage

on PIN#5.6.7





# \* JMB-41A-MS / JMB-51A-MS

(8-PIN)

POWER: PIN#2-7 N/C: PIN#8-5 & 1-4 N/O: PIN#8-6 & 1-3

# TIMING RANGE & FUNCTION SETING

MODEL NO.	TIMING RANGE	DIP SWITCH "T" (TIME RANGE) SETTING				
MODEL NO.		0 0	1 0	0 1	1 1	
IMD41A	SEC TO MIN	0.05SEC TO	0.12SEC TO	0.65SEC TO	6SEC TO	
JMB41A		1SEC	10SEC	1MIN	10MIN	
JMB51A	MIN TO HR	0.05MIN TO	0.12MIN TO	0.6MIN TO	1MIN TO	
JIVIDSTA		1MIN	10MIN	1HOUR	10HOUR	

FUNCTION	DIP SWITCH "F" (FUNCTION) SETTING	DESCRIPTION
"ON"DELAY	0 0	Timing begins when power is applied to the unit. When the time delay setting is reached, the relay contact transfer. The timer is reset either by removing the input power, or by operating the optional customer supplied external "Reset" switch.
REPEAT CYCLE	1 0	Timing begins when power is applied to the unit. When the time delay setting is reached, the relay contact transfer, and remain transferred until the time delay setting is again reached. At this time, the relay contacts are then released returning to the the original state. The timer then automatically resets, and repeats the timing cycle until the input power is removed.
INTERVAL ( REVERSE ON DELAY )	0 1	When power is applied, the relay contacts immediately transfer, and timing begins. When the time delay setting is reached, the relay contacts are released. The timer is reset either by removing the input power, or operating the optional customer supplied external "Reset" switch.
REVERSE REPEAT CYCLE	1 1	When power is applied, the relay contacts immediately transfer, and timing begins. The contacts remain transferred until the time delay setting is reached. Then the contacts are released. When the time delay setting is again reached, the contacts again transfer, and remain transferred until the time delay setting is again reached. The timer continues to automatically repeat the cycle until the power is removed.

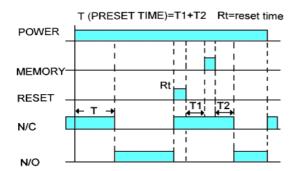
RESET switch: When operated, resets the timer to zero. Requiring a customer supplied momentary switch.

MEMORY switch: When operated, pauses the timing cycle at that point in the cycle. When released, allows the cycle to resume from the same point. Requiring a customer supplied momentary switch.

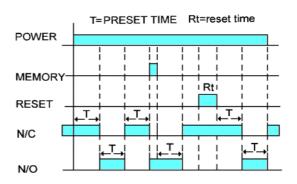


# **FUNCTION DESCRIPTION**

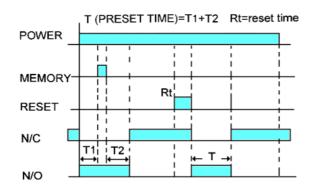
# **ON DELAY**



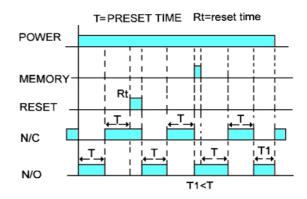
# **REPEAT CYCLE**



# INTERVAL ( REVERSE ON DELAY )



# **REVERSE REPEAT CYCLE**





# 48\*48mm DIN-SIZED ON DELAY ELECTRONIC TIMER

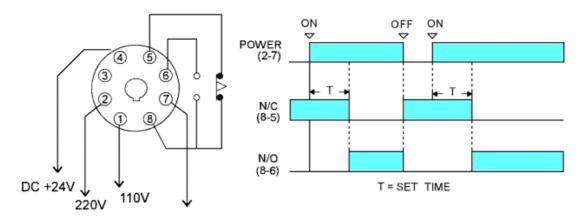
( Multi Working Voltage/ Multi Time Range )

Model No.		IME C. DATE M			
		JME-S , JME-M			
Classification					
Appearance & Dimensions		TYPE:JME VOLT:24/110/220VAC			
	Dimensions	<u>FIG. 1</u>			
	Rated frequency	50/60Hz +/- 1Hz			
	Rated voltage	24VAC/DC, 110VAC, 220 • 240VAC contained			
Cumple	Disengaging value of	22 +/ 20/			
Supply	input voltage	32 +/-3%			
	Supply tolerance	85% to 110%			
	Power consumption	240VAC/ 15VA, 110VAC/ 5VA, 24VAC/ 1.5VA, 24VDC/ 1VA			
	Relay contacts	SPDT ( Time-limit contacts ) : 7A250VAC			
	Contact capacity	7A250VAC Resistive load, (AC-12)			
	Rated value for limiting	7A/250VAC, 7A30VDC			
	continuous current Ith	7A/250 VAC, 7A50 VDC			
Output	Mechanical life	10,000,000 operations			
Output	Max. permitted number	600 (at I max. 250VAC resistive load)			
	of operations per hour	, , , , , , , , , , , , , , , , , , ,			
	Electrical life	100,000 operations			
	Conditional short-circuit current	Shall be connected in series with the short circuit protective device like as 10A Fuse			
	Repetition accuracy	+/- 0.2% Max			
	Setting accuracy	+/- 5% Max			
Accuracy	Voltage accuracy	+/- 0.5% Max			
	Temperature accuracy	+/- 2% Max			
	Reset time	0.1 Sec Max			
	Time range	JME-S: 3,12,100,780Sec; JME-M: 3,12,100,780Min; (selectable by DIP switch)			
	Housing material	self - extinguishing			
	Ambient temperature	-10 ~ +45Deg.C			
	Ambient humidity	85% Max			
	Storage temperature	-25 ∼ +55Deg.C			
	Transport temperature	-25 ~ +70Deg.C			
General	Degree of pollution	2			
spec.	Degree of protection	Housing : IP40, Socket: IP20			
	Overvoltage category	III			
	Dielectric strength	2000V 1 Min and Impulse 4800V			
	Mounting position	Panel mounted by clip			
	Mounting position	Base mounted on socket			
Remarks					



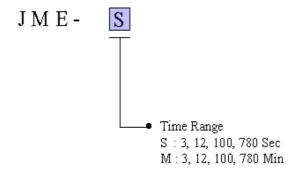
# **CONNECTION DIAGRAM & TIMING CHART**

**OUTPUT: SPDT (Time - limit contacts)** 



# TIME RANGE

Position of Time		1 1	1 1	1 1
Range selector		A B	A B	A B
Model No.	0 0	0 0	0 0	0 0
JME - S	3S	12S	100S	780S
	(0.3S~3S)	(1.2S ~ 12S)	(10S ~ 100S)	( 78S ~ 780S )
JME - M	3M	12M	100M	780M
	(18S ~ 180S)	(72S ~ 12M)	( 10M ~ 100M )	( 78M ~ 780M )





# **DELAY ON MULTI-RANGE TIMER**

Class	Model No.	JMH-2A JMH-2B JMH-2C JMH-2D JMH-2E	JMH-2MA JMH-2MB JMH-2MC JMH-2MD JMH-2ME	
	Appearance	JRN UP  SEC ON  AC/DC		
	Features	Mono working voltage, Multi time range	Multi time range, Universal power source	
	Dimensions		<u>FIG. 2</u>	
	Mounting	Surface mountir	ng : SOCKET BASE <u>PF085A</u>	
	Output Capacity 7A 250VAC	Alternative by DIP switch:  Mode A: DPDT( Time-limit contacts );  Mode B: Instantaneous contact + Time-limit contacts		
	Rated Voltage Range : 85% - 110%	12VDC, 24VAC/DC, 110VAC, 220VAC	Universal 24-48VDC, 24-240VAC	
	Time Range	A: 1S/10S/1M/10M C: 6S/60S/6M/60M E: 3M/30M/3H/30H	B: 3S/30S/3M/30M D: 1M/10M/1H/10H F: 6M/60M/6H/60H	
L I	Mechanical	10	,000,000 Times	
F E	Electrical AC220VPF=1	5	500,000 Times	
A C	Repeat		+/- 0.2% Max	
C U R	Setting	+/- 5% Max		
A N	Voltage	+/- 0.5% Max		
C Y	Temperature	+/- 2% Max		
	Reset time	0.1 Sec Max		
A	ambient temp. & Humidity	-10∼55Deg.C , 85% Max		



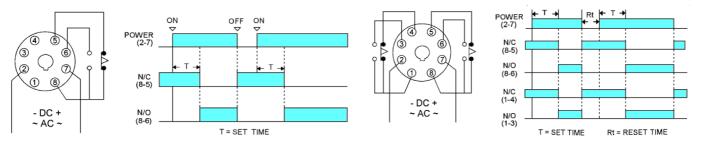
# TIMING RANGE SETTING

Position of Time Range Selector		( <del>0</del> )	( <del>1</del> )	( <del>0</del> )
Time Range Series	$\stackrel{\bigcirc{\bf S}}{\ominus}$	(S) ⊕	(⊕ M	( <del>©</del> M
A	$1S \\ 0.05S \sim 1S$	$10S$ $0.1S \sim 10S$	1M 0.5S ~ 1M	10M 10S ~ 10M
В	$3S \\ 0.1S \sim 3S$	$30S$ $0.5S \sim 30S$	$\begin{array}{c} 3M \\ 1S \sim 3M \end{array}$	30M 30S ~ 30M
C	6S 0.1S ~ 6S	60S 0.5S ~ 60S	6M 1S ~ 6M	60M 30S ~ 60M
Position of Time Range Selector Time Range Series		(10) (M) (M)	1 (a) (b) (b)	(h) (h)
D	1M 0.5S ~ 1M	10M 10S ~ 10M	1H 30S ~ 1H	10H 10M ~ 10H
E	3M 1S ~ 3M	30M 30S ~ 30M	3H 3M ~ 3H	30H 1H ~ 30H

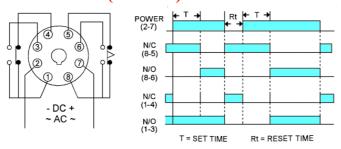
# **CONNECTION DIAGRAM & TIMING CHART**

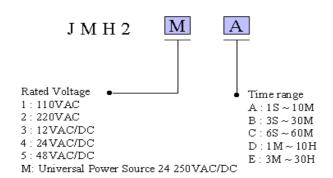
**SPDT** 

# DPDT (Mode A)



# **Instantaneous contact + SPDT (Mode B)**







# HIGH PERFORMANCE DELAY ON TIMER

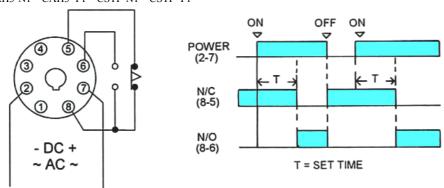
(Mono-Function/Time Range/Working Voltage)

(Mono-Function/Time Range/Working Voltage)				
Classification	Model No.	CAH3C TUSC E	CSTP	
Appearance		JEW JECONDS GAHS: 3	UP U	
	Dimensions	Surface mounting type : FIG. 2 Flush mounting type : FIG. 3	Surface mounting type : <u>FIG. 4</u> Flush mounting type : <u>FIG. 5</u>	
	ırface mounting	Socket base PF085A	Socket base 8PFA	
F	lush mounting	Socket base P3G08 or US08	Socket base P3G08 or US08	
R	ated time range	Wide variety of timing ranges From 0.1S TO 10Hr	Wide variety of timing ranges From 0.1S TO 24Hr	
0	Output Capacity 7A 250VAC	CAH3-N1/Y1 SPDT(Time-limit contacts) CAH3-N2/Y2 Mode A: DPDT Mode B: Instantaneous contact + SPDT(selectable)	CSTP-N1/Y1 SPDT(Time-limit contacts) CSTP-N2/Y2 DPDT CSTP-N3/Y3 Instantaneous contact + SPDT	
]	Rated Voltage	50/60HZ 12VDC, 24VAC/DC, 110VAC, 220VAC (Range: 85% - 110%)		
	Mechanical	10,000,000 Times		
LIFE Electrical 500,000 Times		00 Times		
	Repeat		2% Max	
ACCURACY	Setting		% Max	
	Voltage		5% Max	
	Temperature		% Max	
	Reset time		ec Max	
Ambia	nt temp. & Humidity	-10∼55Des	g.C , 85% Max	

# **CONNECTION DIAGRAM & TIMING CHART**

## **SPDT:**

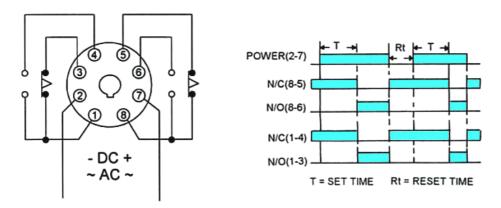
CAH3-N1 CAH3-Y1 CSTP-N1 CSTP-Y1





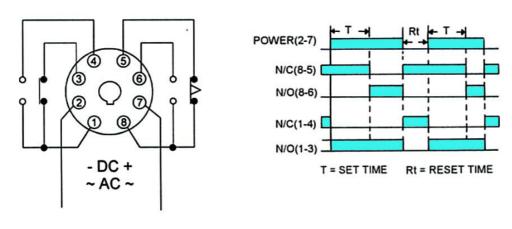
#### DPDT

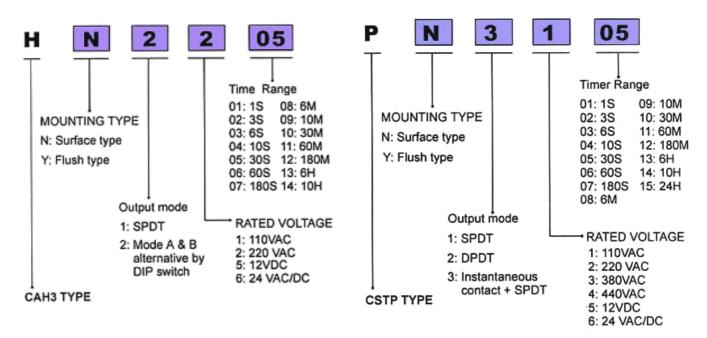
CAH3-N2 (MODE A) CAH3-Y2 (MODE A) CSTP-N2 CSTP-Y2



## **INSTANTANEOUS CONTACT + SPDT:**

CAH3-N2 (MODE B) CAH3-Y2 (MODE B) CSTP-N3 CSTP-Y3







# **HIGH PRECISION DIGITAL TIMER**

Model No.		JSY-2D	JSY-3D
Appearance		JKN DIGITAL TIMER  B B S  AC V	
Dime	nsions	<u>FIC</u>	<u>1. 5</u>
Mou	nting	Flush mounting: Socket base <u>P3G08</u> or <u>US08</u>	
Features		Error-free digital setting and LED display Wide rated time range:  2-digit Timer-from 0.99 sec to 99 hour  3-digit Timer-from 9.99 sec to 999 hour  Time range selectable by dip switch	
Output Capacity 7A		Alternative by DIP switch:  Mode A: DPDT ( 2 Timer-limit contacts )  Mode B: Instantaneous contact + Timer-limit contact	
Rated time range		JSY-2D: 0.99 Sec, 9.9 Sec, 99 Sec, 9.9Min, 99 Min, 9.9 Hr, 99 Hr JSY-3D: 9.99 Sec, 99.9 Sec, 99.9 Sec, 99.9 Min, 999MIN, 99.9 Hr,999Hr	
Rated	Voltage	50/60HZ 12VDC, 24VAC/DC, 110VAC, 220VAC (Range: 85% - 110%)	
	Mechanical	10,000,000 Times	
LIFE	Electrical AC220VPF=1	500,000	) Times
	Repeat	+/- 0.24	% Max
ACCURACY	Setting	+/- 5%	Max
	Voltage	+/- 0.54	% Max
	Temperature	+/- 2%	Max
Reset	t time	0.1 Sec Max	
Ambient temp. & Humidity		-10∼55Deg.	C , 85% Max

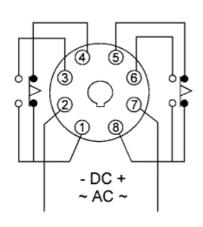


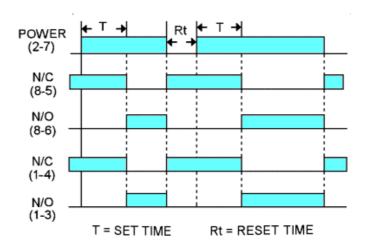
# **CONNECTION DIAGRAM & TIMING CHART**

# **OUTPUT:**

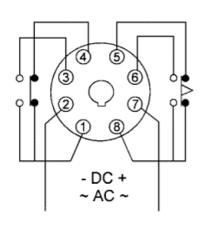
**DPDT** 

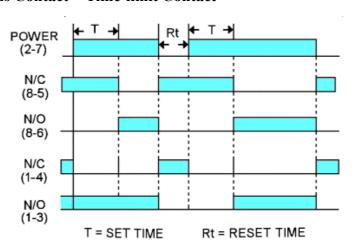
(Time - limit contact 2C)

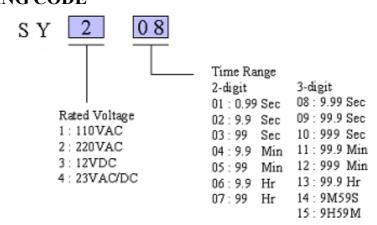




## **Instantaneous Contact + Time-limit Contact**







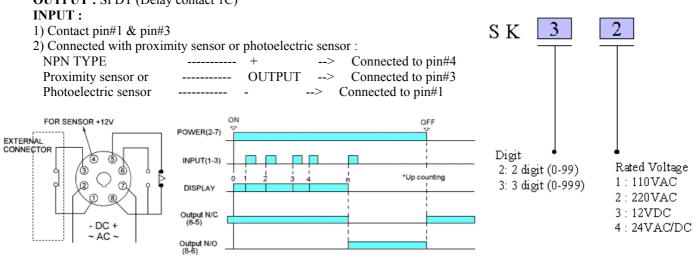


# HIGH PRECISION DIGITAL COUNTER

IIIGH I KECISION DIGITAL COUNTER				
Model No.		JSK-2D	JSK-3D	
Classification		2 DIGITAL COUNTER	3 DIGITAL COUNTER	
Appearance		Z DIGITAL COUNTER  MIN DETRA COUNTER  AC THE PARTY OF THE		
Dimensions		<u>FIG. 5</u>		
Mounting		Flush mounting: Socket base <u>P3G08</u> or <u>US08</u>		
Features		Error-free digital setting and LED display power off reset or Auto reset 0.5S  (upon customer's request)  External connector: Could be proximity sensor or photoelectric sensor		
Input		Counting speed: 30 cps max Counting input: By short-circuiting Counting input is effective 0.2S after power on		
Output	Capacity 7A	SPDT		
Rate	ed Voltage	50/60HZ 12VDC, 24VAC/DC, 110VAC, 220VAC, (Range: 85% - 110%)		
	Mechanical	10,000	000 Times	
LIFE	Electrical AC220VPF=1	500,0	00 Times	
	Repeat		0	
ACCURACY	Setting		0	
	Voltage		0	
	Temperature		0	
Reset time		0.1 Sec Max		
Ambient temp. & Humidity		-10∼55Deg.C, 85% Max		

# CONNECTION DIAGRAM & TIMING CHART ORDERING CODE

**OUTPUT**: SPDT (Delay contact 1C)



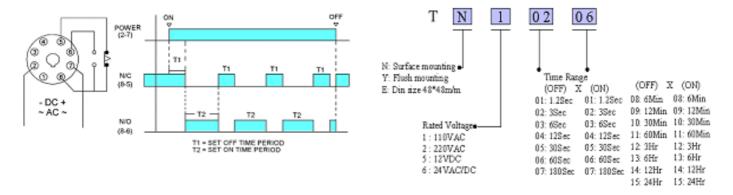


# TWIN RECYCLING TIMER

	Model No.	. CATDV		
Classification		CATDV-N	CATDV-Y	CATDV-E
	earance	ON X1S  TYPE ATDV.  2 12 4  X 1S  OFF TVENT TIMER VOLT 200/AC	ALOM STATE OF THE THE WAT. 2014	T2
	ensions	<u>FIG. 4</u>	<u>FIG. 5</u>	Din size 48*48mm <u>FIG. 1</u>
Surface mounting		Socket base 8PFA	-	Socket base P2CF08
Flush mounting		-	Socket base P3G08 or US08	Socket base P3G08 (with 48*48 adapter)
	itures	OFF-ON time period adjustable separately and recycling operation		
Output Capacity 7A		SPDT : TIME-LIMIT CONTACTS		
Time Range		OFFxON 6Sx6S 6Sx6OS 60Sx6S 60Sx6OS 6Mx6M 6Mx60M 30Mx30M 60Mx60M 6Mx6S 6Sx6M Longest time: 24Hour ( upon customers' request )		
Rated	Voltage	50/60HZ 12VAC/DC, 24VAC/DC,48VAC/DC, 110VAC, 220VAC (Range: 85% - 110%) CATDE-E: Multi range selectable by dip switch		
	Mechanical	10,000,000 Times		
LIFE	Electrical AC220VPF=1	500,000 Times		
	Repeat		+/- 0.2% Max	
ACCURACY	Setting	+/- 5% Max		
	Voltage	+/- 0.5% Max		
Temperature		+/- 2% Max		
Reset time		Reset time -10~55Deg.C, 85% Max		
Ambient temp. & Humidity		-10~35Deg.C, 85% Max		

# **CONNECTION DIAGRAM & TIMING CHART**

**OUTPUT: SPDT (Time-limit contact 1C)** 





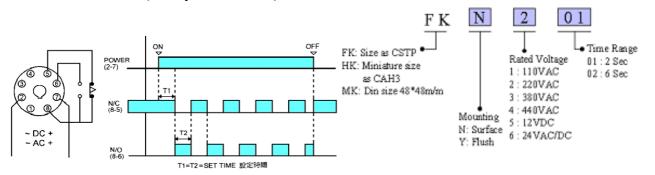
# SYMMETRICAL RECYCLING TIMER

Classification	Model No.	JFK	ЈНК	
Appearance		JENS  DECORD  FLOCE TIME  THE : FK  YOUT : 110VAC  OY	JKN UP  SECONDS  CARGARA LOCA  ON	
	mensions	<u>FIG. 4</u>	<u>FIG. 2</u>	
Surfa	ce mounting	Socket base 8PFA	Socket base PF085A	
Features		OFF-ON equally recycling operation (OFF time period first)  Recycling time is adjustable		
Output	t Capacity 7A	SPDT(1 delay contact)		
Time range		Standard : 2S, 6S		
Rated Voltage Range: 85% ~110%		50/60HZ 12VDC, 24VAC/DC, 110VAC, 220VAC, 380VAC, 415VAC, 440VAC		
	Mechanical	10,000,000 Times		
LIFE	Electrical AC220VPF=1	500,000 T	imes	
ACCURACY	Repeat	+/- 0.2% Max		
	Setting	+/- 5% Max		
	Voltage	+/- 0.5% Max		
	Temperature	+/- 2% Max		
Reset time		0.1 Sec Max		
Ambient temp. & Humidity		-10~55Deg.C , 85% Max		

# CONNECTION DIAGRAM & TIMING CHART CODE

# **ORDERING**

**OUTPUT: SPDT (Delay contact 1C)** 





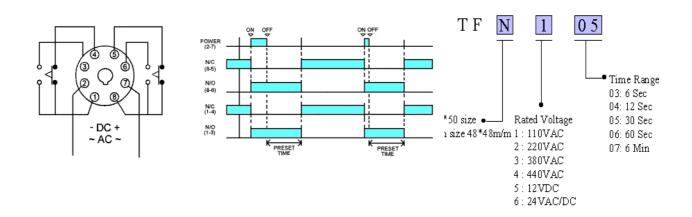
# **POWER OFF-DELAY TIMER**

Model No. Classification		JTF-N	JTF-E	
Appearance		OFF THE THE POLICY TIMES TO THE POLICY TIMES T		
Dimensions		<u>FIG. 4</u>	Din size 48*48mm. Refer to FIG. 1	
Surface mounting		Socket base 8PFA	Socket base P2CF08	
Flush mounting		1	Socket base P3G08 with 48*48 adapter	
Featu	Features		sec to 6min can be adjusted.	
Output Capacity 7A		DPDT		
Time ra	Time range		6 SEC, 12 SEC, 30 SEC, 60SEC, 6MIN	
Rated Voltage		50/60HZ 12VDC, 24VAC/DC, 415VAC, 440VAC (F		
	Mechanical	10,000,000 Times		
LIFE	Electrical AC220VPF=1	500,000 Times		
	Repeat	+/- 0.2% Max		
ACCURACY	Setting	+/- 5% Max		
necolule i	Voltage	+/- 0.5% Max		
	Temperature	+/- 2% Max		
Reset time		0.1 Sec Max		
Ambient temp. & Humidity		-10~55Deg.C, 85% Max		

# CONNECTION DIAGRAM & TIMING CHART

# **ORDERING CODE**

# **OUTPUT: CONTACT 2C**

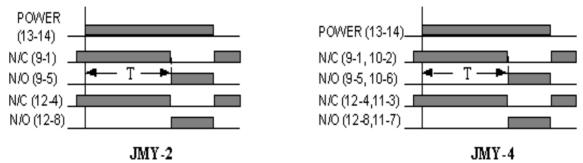




# SUBMINIATURE ON DELAY TIMER

Model No.		JMY-2	JMY-4	
Classification		J1VI 1-2		
Appearance			nensions (Unit: mm)	
Output	contacts	2 FORM C	4 FORM C	
Contacts capacity		5A /250VAC		
Rated frequency & Voltage		50/60HZ, DC 12V, DC 24V, DC 48V, AC 110V, AC 220~240V ( OPERATING VOLTAGE RANGE: 85~110% )		
Rated time range		1S, 3S, 6S, 10S, 30S, 60S, 3M, 6M, 10M, 30M, 60M, 10HR		
Mounting ( Surface type )		WITH SOCKET PYF-08A	WITH SOCKET PYF-14A	
LIFE	Mechanical	10,000,000 Times		
LIFE	Electrical AC220VPF=1	500,000 Times		
Repeat		+/- 0.2% Max		
ACCURACY	Setting	+/- 5% Max		
	Voltage	+/- 0.5% Max		
	Temperature	+/- 2% Max		
Reset time		0.1 Sec Max		
Ambient temp. & Humidity		-10~55Deg.C , 85% Max		

# CONNECTION DIAGRAM & TIMING CHART

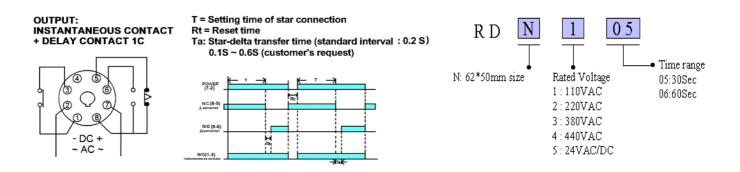




# **START-DELAY TIMER**

Model No.	TRD-N	
Appearance	SICONDS 30 SOFT TIMER V. MOTOR START INN ON	
Dimensions	<u>FIG. 4</u>	
Surface mounting	SOCKET BASE <u>8PFA</u>	
Features	Special for Star-Delta motor starting circuit.  Time interval (standard: 0.2 sec) when star connection transfers to delta connection.	
Output Capacity 7A	1A1C (1 instantaneous contact + 1 delay contact) Time-limit contact : SPST-N/O (delta circuit ), SPST-N/C (star circuit) Instantaneous contact : SPST-N/O (Maintenance circuit )	
Star-delta change time	Standard : 0.2SEC 0.1~0.6SEC( UPON CUSTOMER'S REQUEST )	
Time range	standard: 30 SEC, 60 SEC	
Rated Voltage	50/60HZ 24VAC/DC, 110VAC, 220VAC, 380VAC, 415VAC, 440VAC (Range: 85%~110%)	
LIFE Mechanical	10,000,000 Times	
Electrical AC220VPF=1	500,000 Times	
Repeat	+/- 0.2% Max	
ACCURACY Setting Voltage	+/- 5% Max +/- 0.5% Max	
Temperature	+/- 0.3 /6 Max	
Reset time	0.1 Sec Max	
Ambient temp. & Humidity	-10~55Deg.C , 85% Max	

# **CONNECTONI DIAGRAM & TIMING CHART**

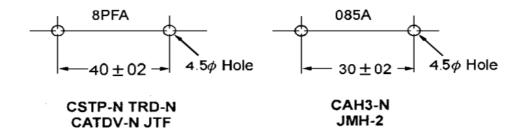




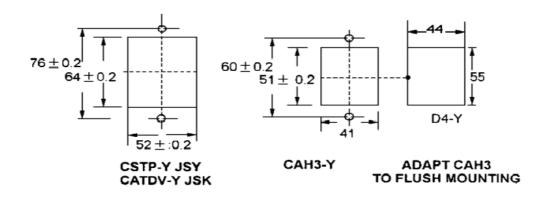
# **SOCKETS OF TIMER**



## **SURFACE MOUNTING**



## **FLUSH MOUNTING**





# **DIMENSIONS OF TIMER**

