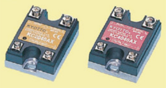
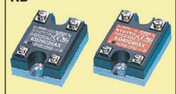
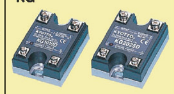
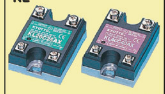
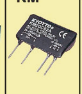
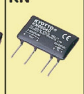
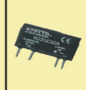
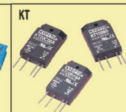
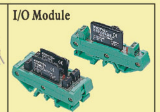
Note: The SSR proposes using in 40°C of working environment, increase by 1.25 amps each time, working environment temperature will increase by 10°C, 80°C of supreme upper limit.

		KA	KB		KC		KD	
		 DC-AC	 DC-AC		 CURRENT -VAC		 DC-AC	
	Model	KA20C02A KA20C04A	KB20C02A KB20C03A KB20C04A KB20C05A KB20C06A	KB40C02A KB40C03A KB40C04A KB40C05A KB40C06A	KC2010AX KC2015AX KC2025AX KC2040AX KC2050AX KC2075AX KC2090AX	KC4010AX KC4015AX KC4025AX KC4040AX KC4050AX KC4075AX KC4090AX	KD20C10AX KD20C15AX KD20C25AX KD20C40AX KD20C50AX KD20C75AX KD20C90AX KD20C100AX KD20C125AX	KD40C10AX KD40C15AX KD40C25AX KD40C40AX KD40C50AX KD40C75AX KD40C90AX KD40C100AX KD40C125AX
INPUT	Control Voltage Range	3~32VDC	3~32VDC		4~20mA or 0~10VDC		4~32 VDC	
	Must Turn Off Voltage	Max 1.0VDC	Max 1.0VDC		Max 3.0VDC		Max 1.0VDC	
	Input Timpedance	1.5 Kohm	1.5 Kohm		1.5 Kohm		1.5 Kohm	
OUTPUT	Max Load Current	2A / 4A	2A, 3A, 4A, 5A, 6A		10A, 15A, 25A, 40A, 50A, 75A, 90A		10A, 15A, 25A, 40A, 50A, 75A, 90A, 100A, 125A	
	Load Voltage Range	24~280VAC	24~280VAC	24~480VAC	24~280VAC	48~480VAC	24~280VAC	48~480VAC
	Min. Blocking Voltage	600VAC peak	600VAC peak	1200VAC peak	600VAC peak	1200VAC peak	600VAC peak	1200VAC peak
	Max Off-State Leakage	Less 3mA	Less 3mA		Less 3mA	Less 5mA	Less 3mA	Less 5 mA
	Max 1-cycle Peak Surge	20A / 40A	20A, 30A, 40A, 50A, 60A		100A, 150A, 250A, 400A, 500A,		100A, 150, 250A, 400A, 500A, 750A, 900A, 1000A, 1250A	
	Max Off State dv/dt	200V/μSEC	200V/μSEC	1000V/μSEC	500 V/μSEC	1000 V/μSEC	500 V/μSEC	1000 V/μSEC
GENERAL RATING	Isolate Impedence	10^9 ohm	10^9 ohm		10^9 ohm		10^9 ohm	
	Dielectric Strength Input-Output	2500VAC rms	2500VAC rms		4000VAC rms		4000VAC rms	
	Dielectric Strength Input, Output-Case	—	—		4000VAC rms		4000VAC rms	
	Turn On Time	Less 2m SEC	Less 2m SEC		Less 2m SEC		Less 2m SEC	
	Turn Off Time	Less 1/2AC cycle	Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle	
	Frequency Range	47~70Hz	47~70Hz		47~70Hz		47~70Hz	
	Operating Temperature	-20° ~ 80°C	-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C	
	Switching Type	Zero Cross	Zero Cross		Phase Control		Zero Cross	
	Weight (g)	15g	12g		100g		100g	

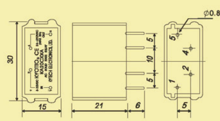
		KE		KF	KG		KL	
		 DC-DC		 DC-DC	 DC-DC		 AC-AC	
	Model	KE0602D KE0604D	KE2002D KE2004D	KF0602D KF0604D	KG1005D KG1010D KG1025D KG1040D KG1050D KG1075D	KG2010D KG2025D KG2040D KG2050D KG2075D	KL20C10AX KL20C15AX KL20C25AX KL20C40AX KL20C50AX KL20C75AX KL20C90AX KL20C100AX KL20C125AX	KL40C10AX KL40C15AX KL40C25AX KL40C40AX KL40C50AX KL40C75AX KL40C90AX KL40C100AX KL40C125AX
INPUT	Control Voltage Range	3~32VDC		3~32VDC	3~32VDC	4~32VDC	80~280VAC	
	Must Turn Off Voltage	Max 1.0VDC		Max 1.0VDC	Max 1.0VDC		Max 10 VAC	
	Input Timpedance	1.5 Kohm		1.5 Kohm	1.5 Kohm		1.5 Kohm	
OUTPUT	Max Load Current	2A, 4A	2A, 4A	2A / 4A	5A, 10A, 25A, 40A, 50A, 75A		10A, 15A, 25A, 40A, 50A, 75A, 90A, 100A, 125A	
	Load Voltage Range	3~60 VDC	5~200VDC	3~60VDC	5~120VDC	5~240VDC	24~280VAC	48~480VAC
	Min. Blocking Voltage	80 VDC	300 VDC	80 VDC	140 VDC	140 VDC	600VAC peak	1200VAC peak
	Max Off-State Leakage	Less 2 mA	Less 3 mA	Less 2 mA	Less 2mA	Less 3mA	Less 3 mA	Less 5 mA
	Max 1-cycle Peak Surge	3A, 8.5A		3A, 8.5A	25A, 50A, 100A, 200A, 250A, 375A	50A, 100A, 200A, 250A, 375A	100A, 150, 250A, 400A, 500A, 750A, 900A, 1000A, 1250A	
	Max Off State dv/dt	200V/μSEC		200V/μSEC	100V/μSEC	200V/μSEC	500 V/μSEC	1000 V/μSEC
GENERAL RATING	Isolate Impedence	10^9 ohm		10^9 ohm	10^9 ohm		10^9 ohm	
	Dielectric Strength Input-Output	2500VAC rms		2500VAC rms	4000VAC rms		4000VAC rms	
	Dielectric Strength Input, Output-Case	—		—	4000VAC rms		4000VAC rms	
	Turn On Time	Less 2m SEC		Less 2m SEC	Less 2m SEC		Less 2m SEC	
	Turn Off Time	Less 2m SEC		Less 2m SEC	Less 2m SEC		Less ½ AC cycle	
	Frequency Range	47~70Hz		47~70Hz	47~70Hz		47~70Hz	
	Operating Temperature	-20° ~ 80°C		-20° ~ 80°C	-20° ~ 80°C		-20° ~ 80°C	
	Switching Type	N/A		N/A	N/A		Zero Cross	
	Weight (g)	15g		10g, 12g	100g		100g	

		KM	KN	KN		KO	KR	KR
		 AC-AC	 AC-DC	 AC-DC		 DC-AC	 VR-AC	 VR-AC
	Model	KM20C02A KM20C04A KM20C06A	KN0602D KN0604D	KN1010D KN1025D	KN2010D KN2025D	KO20C01A K020C02A	KR2010AX KR2015AX KR2025AX KR2040AX KR2050AX KR2075AX KR2090AX	KR4025AX KR4040AX KR4050AX KR4075AX KR4090AX
INPUT	Control Voltage Range	80~280VAC	80~280 VAC	80~280 VAC	80~280 VAC	3~32VDC	VR 0 ~500 KΩ	VR 0 ~1 MΩ
	Must Turn Off Voltage	Max 10 VAC	Max 10VAC	Max 10 VAC	Max 10 VAC	Max 1.0 VAC	—	—
	Input Timpedance	1.5 Kohm	1.5 Kohm	1.5 Kohm	1.5 Kohm	1.5 Kohm	1.5 Kohm	1.5 Kohm
OUTPUT	Max Load Current	2A, 4A, 6A	2A, 4A	10A, 25A	10A, 25A	1A, 2A	10A, 15A, 25A, 40A, 50A, 75A, 90A	25A, 40A, 50A, 75A, 90A
	Load Voltage Range	24~280VAC	3~60VDC	5~120VDC	5~240VDC	12~280VAC	24~280VAC	48~480VAC
	Min. Blocking Voltage	600VAC peak	80 VDC	140VDC	300VDC	600VAC peak	600VAC peak	1200VAC peak
	Max Off-State Leakage	Less 5 mA	Less 2mA	Less 3mA	Less 5mA	Less 3mA	Less 3mA	Less 5 mA
	Max 1-cycle Peak Surge	20A, 40A, 60A	3A, 8.5A	15A, 35A	15A, 35A	10A, 20A	100A, 150A, 250A, 400A, 500A, 750A, 900A	250A, 400A, 500A, 750A, 900A
	Max Off State dv/dt	2A, 4A:100 V/μSEC 6A:200 V/μSEC	200V/μSEC	100V/μSEC	200V/μSEC	250V/μSEC	500V/μSEC	1000V/μSEC
GENERAL RATING	Isolate Impedence	10^9 ohm	10^9 ohm	10^9 ohm	10^9 ohm	10^9 ohm	10^9 ohm	10^9 ohm
	Dielectric Strength Input-Output	2500VAC rms	2500VAC rms	4000VAC rms	4000VAC rms	2500VAC rms	—	—
	Dielectric Strength Input, Output-Case	—	—	4000VAC rms	4000VAC rms	—	4000VAC rms	4000VAC rms
	Turn On Time	Less 2m SEC	Less 2m SEC	Less 2m SEC	Less 2m SEC	Less 2m SEC	Less 2m SEC	Less 2m SEC
	Turn Off Time	Less ½ AC cycle	Less ½ AC cycle	Less 2m SEC	Less 2m SEC	Less 2m SEC	Less ½ AC cycle	Less ½ AC cycle
	Frequency Range	47~70Hz	47~70Hz	47~70Hz	47~70Hz	47~70Hz	47~70Hz	47~70Hz
	Operating Temperature	-20° ~ 80°C	-20° ~ 80°C	-20° ~ 80°C	-20° ~ 80°C	-20° ~ 80°C	-20 ~ 80°C	-20° ~ 80°C
	Switching Type	Zero Cross	N/A	N/A	N/A	Zero Cross	N/A	N/A
	Weight (g)	12g	12g	95g	95g	1.5g	100g	100g

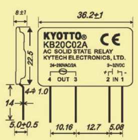
		KS			KT			I/O Module	
		 DC-AC	DC-AC	DC-DC	 DC-AC	DC-AC	DC-DC	 1, 2,4,8 Port	
	Model	KS2002A	KS4002A	KS0602D	KT20C08A KT20C12A KT20C16A	KT20R08A KT20R12A KT20R16A	KT1008D	I/O-1-KB20C04A I/O-2-KB20C04A I/O-4-KB20C04A I/O-8-KB20C04A	I/O-1-KF0604D I/O-2-KF0604D I/O-4-KF0604D I/O-8-KF0604D
INPUT	Control Voltage Range	3~32VDC	3~32VDC	3~32VDC	3~32VDC		3~32VDC	3~32VDC	3~32VDC
	Must Turn Off Voltage	MAX 1.0VDC	MAX 1.0VDC	MAX 1.0VDC	MAX 1.0VDC		MAX 1.0VDC	Max. 1.0VDC	Max. 1.0VDC
	Input Timpedance	1.5Kohm	1.5Kohm	1.5Kohm	1.5Kohm		1.5Kohm	1.5 Kohm	1.5 Kohm
OUTPUT	Max Load Current	2A	2A	2A	8A, 12A, 16A		8A	4A	4A
	Load Voltage Range	24~280VAC	48~480VAC	3~60VDC	24~280VAC		3~100VDC	24~280VAC	3~60 VDC
	Min. Blocking Voltage	600VAC peak	1200VAC peak	80VDC	600VAC peak		400VDC	600VAC peak	80 VDC
	Max Off-State Leakage	Less 3mA	Less 5mA	Less 1mA	Less 3mA		Less 2mA	Less 3 mA	Less 2mA
	Max 1-cycle Peak Surge	20A	20A	20A	80A, 120A, 160A		16A	40A	40A
	Max Off State dv/dt	200V/μSEC	1000V/μSEC	200V/μSEC	200V/μSEC		200V/μSEC	200V/μSEC	200V/μSEC
GENERAL RATING	Isolate Impedence	10^9 ohm		10^9 ohm	10^9 ohm		10^9 ohm	10^9 ohm	
	Dielectric Strength Input-Output	2500VAC rms		2500VAC rms	2500VAC rms		2500VAC rms	2500VAC rms	
	Dielectric Strength Input, Output-Case	—		—	—		—	—	
	Turn On Time	Less 2m SEC		Less 2m SEC	Less 2m SEC		Less 2m SEC	Less 2m SEC	
	Turn Off Time	Less ½ AC cycle		Less 2m SEC	Less ½ AC cycle		Less 2m SEC	Less 1/2AC cycle	
	Frequency Range	47~70Hz		47~70Hz	47~70Hz		47~70Hz	47~70Hz	
	Operating Temperature	-20°~80°C		-20°~80°C	-20°~80°C		-20°~80°C	-20° ~ 80°C	
	Switching Type	Zero Cross		N/A	Zero Cross	Random Turn	N/A	N/A	
	Weight (g)	6g		6g	12g		12g	1port:25g 4port:107.5g	2port:62.5g 8port:186.5g

OUTLINE DIMENSIONS (unit:mm)

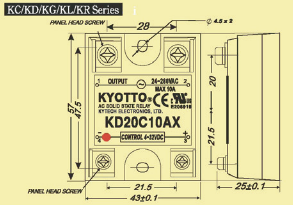
KA/KE Series



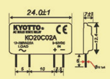
KB/KF/KM/KN Series



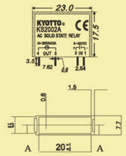
KC/KD/KG/KL/KR Series



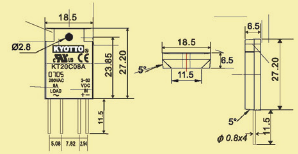
KO Series



KS Series

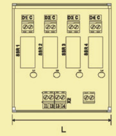


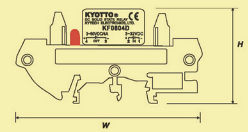
KT Series

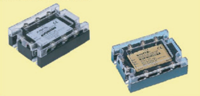


I/O Module

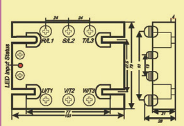
Model	Dimension (LxWxH)mm
IO-1 port	14x87x51
IO-2 port	34x87x51
IO-4 port	64x87x51
IO-8 port	124x87x51



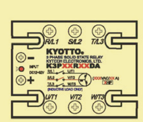


		3 PHASE Series				3 PHASE 2 Line Series			
									
	Heater Load Only	K3P20C25DA ~ K3P20C125DA	K3P40C25DA ~ K3P40C125DA	K3P20C25AA ~ K3P20C125AA	K3P40C25AA ~ K3P40C125AA	K3P20C25DA-2L ~ K3P20C125DA-2L	K3P40C25DA-2L ~ K3P40C125DA-2L	K3P20C25AA-2L ~ K3P20C125AA-2L	K3P40C25AA-2L ~ K3P40C125AA-2L
	Inductive Load Only	K3P20R25DA ~ K3P20R125DA	K3P40R25DA ~ K3P40R125DA	K3P20R25AA ~ K3P20R125AA	K3P40R25AA ~ K3P40R125AA	K3P20R25DA-2L ~ K3P20R125DA-2L	K3P40R25DA-2L ~ K3P40R125DA-2L	K3P20R25AA-2L ~ K3P20R125AA-2L	K3P40R25AA-2L ~ K3P40R125AA-2L
INPUT	Control Voltage Range	6-32VDC	12-32VDC	80-280VAC		5-32VDC	10-32VDC	80-280VAC	
	Must Turn Off Voltage	Max 3.0VDC		Max 10 VAC		Max 3.0VDC		Max 10 VAC	
	Input Timpedance	1.5 Kohm							
OUTPUT	Max Load Current	25A, 40A, 50A, 75A, 90A, 100A, 125A							
	Load Voltage Range	24-280VAC	48-480VAC	24-280VAC	48-480VAC	24-280VAC	48-480VAC	24-280VAC	48-480VAC
	Blocking Voltage	$600VAC_{peak}$	$1200VAC_{peak}$	$600VAC_{peak}$	$1200VAC_{peak}$	$600VAC_{peak}$	$1200VAC_{peak}$	$600VAC_{peak}$	$1200VAC_{peak}$
	Max Off-State Leakage	Less 10mA							
	Max 1-cycle Peak Surge	250A, 400A, 500A, 750A, 900A, 1000A, 1250A							
	Max Off State dv/dt	500V/μSEC	1000V/μSEC	500V/μSEC	1000V/μSEC	500V/μSEC	1000V/μSEC	500V/μSEC	1000V/μSEC
GENERAL RATING	Isolate Impedence	10^9 ohm							
	Dielectric Strength Input-Output	4000VAC rms							
	Dielectric Strength Input, Output-Case	4000VAC rms							
	Turn On Time	Less 2m SEC							
	Turn Off Time	Less 1/2AC cycle							
	Frequency Range	47~70Hz							
	Operating Temperature	-20° ~ 80°C							
	Switching Type	C:Zero Cross				R:Random Switching			
	Weight (g)	400g							

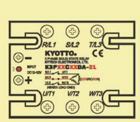
OUTLINE DIMENSIONS (unit:mm)

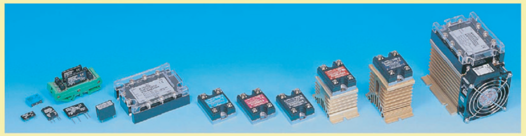


3 PHASE Series



3 PHASE 2 Line Series





Purpose :

- Copy Machine
- Currenty Machine
- Robot
- Wrapping Machine
- Electric Distributor
- Microwave Oven
- Micro Computer
- CNC Lathe
- Motor Control
- Office Wave
- Video Game
- Temperature Regulator
- Auto Vending Machine
- Control Equipment
- UPS , AVR
- Traffaic Signal Control

Features :

- HIGH RELIABILITY , LONG LIFE
- SAFETY
- LOW INPUT POWER CONSUMPTION
- NO CONTACT POINTS
- NO SWITCHING SPARKS
- NO NOISE
- NO MECHANICAL DAMAGE
- NEED NO MAINTENANCE
- NEED NO MECHANICAL MOTION , ELECTRONIC DEVICES
- FAST REACTION , FITS IN HIGH FREQUENCY MOTIONS

Specification :

(1)Category:DC/AC,Single SSR , 3 Phase 3 Line , 3 Phase 2 Line
(2)SIP Typel : Apply to PCB welding
(3)PANEL MOUNT Type: Apply two screw to fix
(4)I/O Module Type:Apply many kind of I/O to control
(5)High-Tension:Load Voltage can to 480VAC , 1200Vpeak
(6)Electricity : Max Load current to 125A
(7)3 Phase SSR:To control 3 Phase Motor & Temperature , Load Voltage to 480VAC

Model No. Descriptions:

KYOTTO's Model No. Of SSR show special implication . The user can easily choose what they want from reading the Model No. The following is the unified example to help users read the Model NO.

Ex: **KD 20 C 25 A X**

This letters indicate revsion.

This letters indicate:
"A" = AC output,
"D" = DC output,

These two letters indicate SSR's series:
(1)KA.KB.KD.KO.KS.KT : DC to AC TYPE
(2)KC : CURRENT to VAC TYPE
(3)KE.KF.KG.KS.KT : DC to DC TYPE
(4)KL : AC to AC TYPE
(5)KM :AC to AC TYPE
(6)KN : AC to DC TYPE
(7)KR : VR to AC TYPE
(8)K3P :3 phase TYPE

These two digits indicate the output voltage;
e.g.
06 = 60VDC
10 = 100VDC / 120VDC
20 = 200VDC / 240VDC / 280VAC
40 = 480VAC

With"C"indicates built-in zero-cross circuit
C = Zero Cross
R = Ramdom Turn.

These two digits indicate the output current:
e.g. 02 = 2A , 03=3A , 04 = 4A , 05=5A , 06=6A
10 =10A , 15=15A, 25=25A , 40=40A , 50=50A
75= 75A , 90=90A, 100=100A , 125=125A