



# JiGO<sup>®</sup>



HIRAWAT  
ELECTRICALS

PRODUCTS CATALOGUE

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## SELF LOCKING NYLON CABLE TIE

### APPLICATION

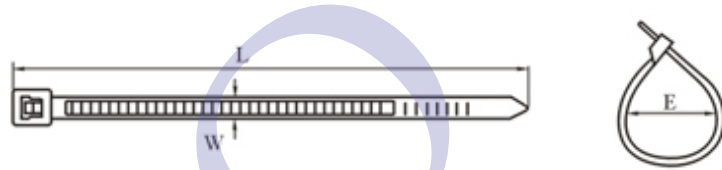
The cable tie has a multitude of possible applications, the most common being to organize cables. Computer cabling, electrical wires, home theater equipment, speaker wires, and power cables can be aesthetically improved and organized with the simple application of a cable tie. Cable ties are an extremely practical, affordable and convenient way to hold a lot of items that we use everyday together.

### SPECIFICATION

· Material: Nylon 66, 94V-2 certified by UL. Heat-resisting, Acid & erosion control, insulate well and not apt to age.

· Operating temperature: -35°C to 85°C

· Color: Natural (or white, standard color), UV black and other colors are available as requested.



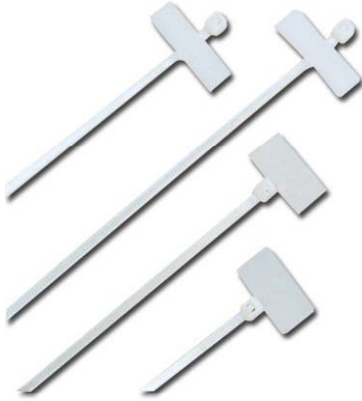
CODE	LENGTH (L)		WIDTH (W)	BUNDLE DIAMETER (E)	MIN. LOOP TENSILE STRENGTH	
	INCH	MM	MM	MM	LBS	KGS
JG-CV- 3×80	3 3/16"	80	2.5	2-16	18	8
JG-CV- 3×100	4"	100	2.5	2-22	18	8
JG-CV- 3×150	6"	150	2.5	2-35	18	8
JG-CV- 3×200	8"	200	2.5	2-50	18	8
JG-CV- 4×150	6"	150	3.5	3-35	40	18
JG-CV- 4×200	8"	200	3.5	3-50	40	18
JG-CV- 4×250	10"	250	3.5	3-65	40	18
JG-CV- 4×300	11 5/8"	300	3.5	3-80	40	18
JG-CV- 5×200	8"	200	4.5	3-50	50	22
JG-CV- 5×250	10"	250	4.5	3-65	50	22
JG-CV- 5×300	7 8/5"	300	4.5	3-82	50	22
JG-CV- 5×350	13 3/4"	350	4.5	3-90	50	22
JG-CV- 5×380	15"	380	4.7	3-102	50	22
JG-CV- 5×400	15 3/4"	400	4.7	3-105	50	22
JG-CV- 5×450	17 3/4"	450	4.7	3-130	50	22
JG-CV- 5×500	19 11/16"	500	4.7	3-150	50	22
JG-CV- 8×300	11 5/8"	300	7.5	4-82	85	38
JG-CV- 8×450	17 3/4"	450	7.5	4-118	120	55
JG-CV- 9×550	25 9/16"	550	9	8-160	175	80
JG-CV- 9×650	27 1/2"	650	9	8-190	175	80
JG-CV- 9×760	36 1/4"	760	9	10-225	175	80
JG-CV- 9×1020	29 9/16"	1020	9	10-295	175	80
JG-CV- 9×1150	29 9/16"	1150	9	10-310	175	80
JG-CV- 9×1210	29 9/16"	1210	9	10-340	175	80



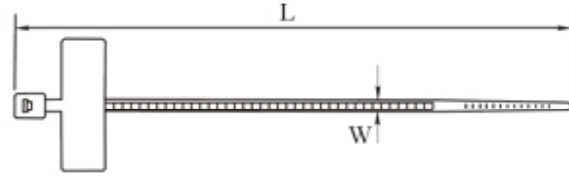
## MARKER TIE

### SPECIFICATION

- Material: Nylon 66, 94V-2 certificuted by ul, not apt to age.
- Feature: It is easy to mark on the space at front tip of ties with oil pen.



100MKT  
200MKT  
205MKT



ITEM.NO.	LENGTH (L)		WIDTH(W)	BUNDLE DIAMETER (E)	MIN.LOOP TENSILE STRENGTH	
	INCH	MM	MM	MM	LBS	KGS
JG-CV-100MKT	4"	100	2.5	22	18	8
JG-CV-205MKT	8"	205	3.6	22	40	18

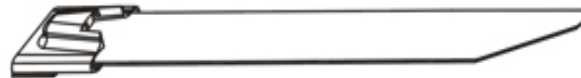
## STAINLESS STEEL TIE

### SPECIFICATION

- Material: Stainless steel type: #304
- Temperature range: -80°C to 500°C
- Unique self-locking mechanism that allow easy and quick application.
- High tensile strength, Non-flammable
- High resistance to Acetic acid, Sulphuric acid, Corrosion, etc. General extremely resistant to most Hostile environments.



SST  
SLT



ITEM.NO.	LENGTH (L)	WIDTH(W)	BUNDLE DIA.	TENSILE STRENGTH	
	MM	MM	MM	LBS	KGS
JG-SST-200	200	4.6	50	100	46
JG-SST-250	300	4.6	80	100	46
JG-SST-360	360	4.6	95	100	46



## NYLON/PLASTIC CABLE GLANDS (PG THREAD)



### APPLICATION

A cable gland is designed to attach and secure the end of a cable to the equipment. A cable gland provides strain-relief and connects by a means suitable for the type and description of cable for which it is designed – including provision for making electrical connection to the armour or braid and lead or aluminium sheath of the cable, if any.

Cable glands may be used on all types of electrical power, control, instrumentation, data and telecommunications cables.

### SPECIFICATION

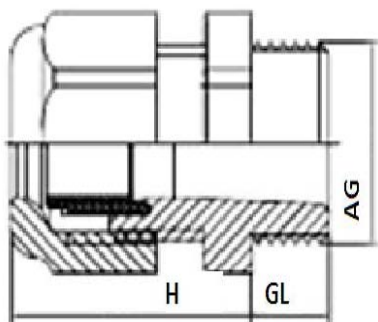
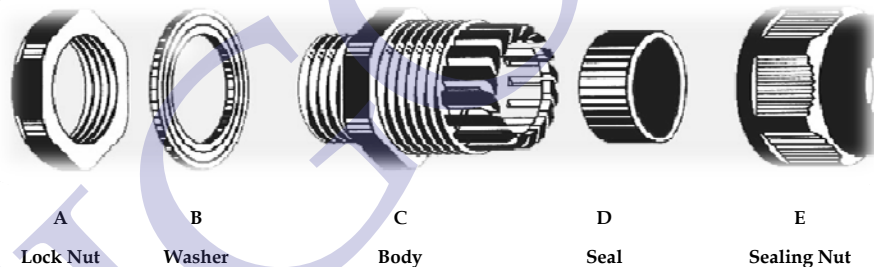
- Material: Parts A, C, E are made of UL approved nylon PA66, parts B and D are made of nitrile butadiene rubber (NBR)

- Thread spec.: Metric, PG, G, NPT.

- Working temperature: -40°C to 100°C in static state, instantaneous heat resistance up to 120°C ; -20°C to 80°C in dynamic state, instantaneous heat resistance up to 100°C.

- Characteristics: Special design of clamping die and rubber part, large range in clamping cable, ultra-strong stretching resistance, waterproof, dustproof, and high ability to resist salt, acid, alkali, alcohol, grease and general solvent.

- Color: Black, Light grey, Grey as well as special colors that can be designed at request.



CODE	MODEL THREAD	CABLE RANGE	GL (MM)	H (MM)	SPANNER SIZE
					A & E (MM)
JG 7	PG 7	3 ~ 6.5	8	21	15
JG 9	PG 9	4 ~ 8	8	22	19
JG 11	PG 11	5 ~ 10	8	25	22
JG 13.5	PG 13.5	6 ~ 12	9	27	24
JG 16	PG 16	10 ~ 14	10	28	27
JG 18	PG 18	12 ~ 16	11	29	27
JG 21	PG 21	13 ~ 18	11	31	33
JG 25	PG 25	14 ~ 21	12	32	36
JG 27	PG 27	15 ~ 23	12	33	38
JG 29	PG 29	18 ~ 25	11	39	42
JG 36	PG 36	22 ~ 32	13	48	53
JG 42	PG 42	32 ~ 38	13	48	60
JG 48	PG 48	37 ~ 44	14	49	65
JG 63	PG 63	40 ~ 50	29	95	75

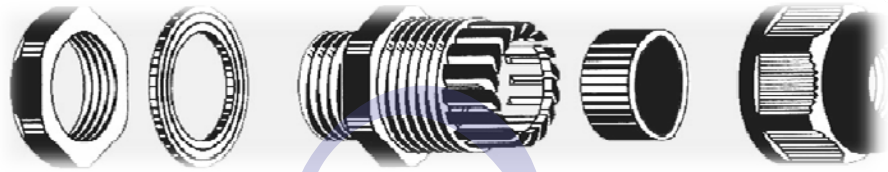


## NYLON/PLASTIC CABLE GLANDS (M THREAD)

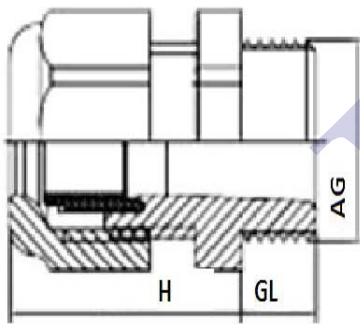


### SPECIFICATION

- Material: Parts A, C, E are made of UL approved nylon PA66, parts B and D are made of nitrile butadiene rubber (NBR)
- Thread spec.: Metric, PG, G, NPT.
- Working temperature: -40°C to 100°C in static state, instantaneous heat resistance up to 120°C ; -20°C to 80°C in dynamic state, instantaneous heat resistance up to 100°C.
- Characteristics: Special design of clamping die and rubber part, large range in clamping cable, ultra-strong stretching resistance, waterproof, dustproof, and high ability to resist salt, acid, alkali, alcohol, grease and general solvent.
- Color: Black, Light grey, Grey as well as special colors that can be designed at request.



A Lock Nut      B Washer      C Body      D Seal      E Sealing Nut



CODE	MODEL THREAD (AG)	CABLE RANGE	GL (MM)	H (MM)	SPANNER SIZE
					A & E (MM)
JG - M 12x1.5	M 12x1.5	3 ~ 6.5	8	21	15
JG - M 16x1.5	M 16x1.5	4 ~ 8	8	22	19
JG - M 18x1.5	M 18x1.5	5 ~ 10	8	25	22
JG - M 20x1.5	M 20x1.5	6 ~ 12	9	27	24
JG - M 22x1.5	M 22x1.5	10 ~ 14	10	28	27
JG - M 24x1.5	M 24x1.5	12 ~ 16	11	29	27
JG - M 25x1.5	M 25x1.5	12 ~ 16	11	29	27
JG - M 27x1.5	M 27x1.5	13 ~ 18	11	31	33
JG - M 30x1.5	M 30x1.5	14 ~ 21	12	32	36
JG - M 32x1.5	M 32x1.5	15 ~ 23	12	33	38
JG - M 33x1.5	M 33x1.5	15 ~ 23	12	33	38
JG - M 36x1.5	M 36x1.5	19 ~ 26	11	40	42
JG - M 40x1.5	M 40x1.5	22 ~ 32	18	45	46
JG - M 50x1.5	M 50x1.5	32 ~ 38	18	47	56
JG - M 63x1.5	M 63x1.5	37 ~ 44	20	47	68



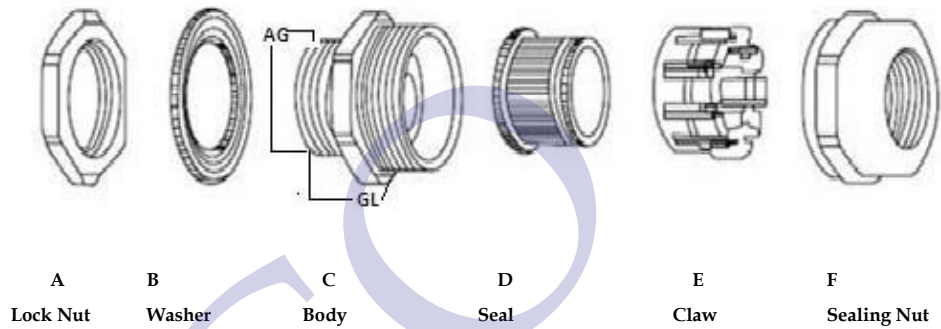


## NYLON/PLASTIC CABLE GLANDS (MG THREAD)



### SPECIFICATION

- Material: Parts A, C, E are made of UL approved nylon PA66, parts B and D are made of nitrile butadiene rubber (NBR)
- Thread spec.: Metric, PG, G, NPT.
- Working temperature: -40°C to 100°C in static state, instantaneous heat resistance up to 120°C ; -20°C to 80°C in dynamic state, instantaneous heat resistance up to 100°C.
- Characteristics: Special design of clamping die and rubber part, large range in clamping cable, ultra-strong stretching resistance, waterproof, dustproof, and high ability to resist salt, acid, alkali, alcohol, grease and general solvent.
- Color: Black, Light grey, Grey as well as special colors that can be designed at request.



CODE	MODEL THREAD	CABLE RANGE	GL (MM)	SPANNER SIZE
				A & F (MM)
JG - MG20 - 10	MG 20x1.5	10.5 ~ 6.5	15	27/27
JG - MG20 - 14	MG 20x1.5	14 ~ 8.5	15	27/27
JG - MG25 - 16	MG 25x1.5	16.5 ~ 11	15	33/33
JG - MG25 - 18	MG 25x1.5	18 ~ 12.5	15	33/33
JG - MG32 - 22	MG 32x1.5	22 ~ 16	15	41/41
JG - MG32 - 25	MG 32x1.5	25 ~ 18	15	41/41
JG - MG40 - 30	MG 40x1.5	32.5 ~ 24	15	50/50
JG - MG50 - 39	MG 50x1.5	41 ~ 30	20	62/62
JG - MG63 - 49	MG 63x1.5	54 ~ 40	20	75/75

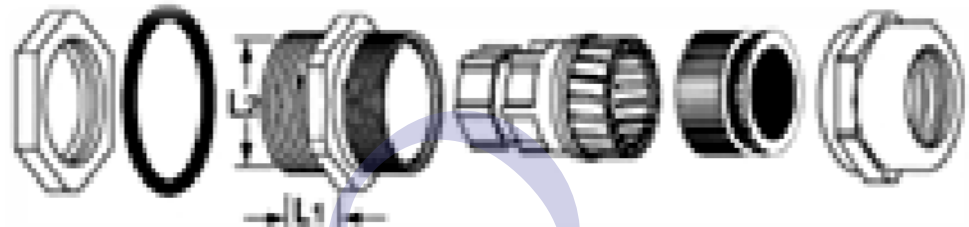


## METALIC CABLE GLANDS (PG THREAD)

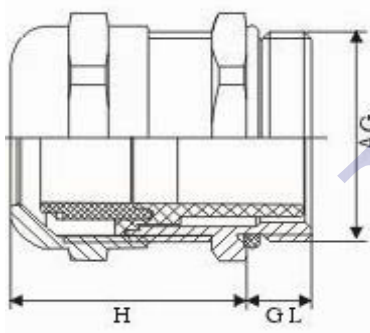


### SPECIFICATION

- Material: Parts A, C, F are made of brass plated with nickel, part D is made of UL approved nylon PA66, parts B and E are made of nitrile butadiene rubber (NBR)
- Thread spec.: Metric, PG, G, NPT.
- Working temperature: -40°C to 100°C in static state, instantaneous heat resistance up to 120°C .
- Characteristics: Special design of clamping die and rubber part, large range in clamping cable, ultra-strong stretching resistance, waterproof, dustproof, and high ability to resist salt, acid, alkali, alcohol, grease and general solvent.



A Lock Nut      B O Ring      C Body      D Claw      E Seal      F Sealing Nut



CODE	MODEL THREAD (mm)	CABLE RANGE	GL (MM)	H (MM)	SPANNER SIZE
					(MM)
JG - PG - T - 7	PG 7	3 ~ 6.5	5	19	14
JG - PG - T - 9	PG 9	4 ~ 8	6	20	17
JG - PG - T - 11	PG 11	5 ~ 10	6	21	20
JG - PG - T - 13.5	PG 13.5	6 ~ 12	6.5	22	22
JG - PG - T - 16	PG 16	10 ~ 14	6.5	23	24
JG - PG - T - 21	PG 21	13 ~ 18	7	25	30
JG - PG - T - 29	PG 29	18 ~ 25	8	29	40
JG - PG - T - 36	PG 36	22 ~ 32	8	35	50
JG - PG - T - 42	PG 42	32 ~ 38	9	37	57
JG - PG - T - 48	PG 48	37 ~ 44	10	38	64



## INDUSTRIAL PLUGS AND SOCKETS



### APPLICATIONS

Industrial Plugs and Sockets are reliable, robust, easy to wire and provide outstanding resistance to weathering and to chemicals. All of which assures safe operation, even in the most adverse environmental conditions.

Field of use	IP44	IP67
Agriculture	Mobile or portable equipment or appliances used or stored on sheltered premises.	Outdoor installation of pumping, ventilation, drying equipment.
Chemical industry	Indoor on premises for storage and maintenance purposes where connections are not exposed to the risk of immersion or chemicals.	On premises without risk of explosions but where the connections are exposed to chemicals and subject to possible immersion.
Construction sites and shipyards	On covered construction sites sheltered against weathering the exposed to splashing with water.	On outdoor construction sites where the connections are left on damp ground exposed to freezing, dust and weathering.
Sports complexes and other places of public entertainment, TV and film studios.	On sheltered premises protected against the weather, though exposed to splashing, without high connected loads.	Outdoor connections exposed to rain, snow, mud, freezing and other critical weather conditions.
Food industry	In sheltered locations, on indoor premises used for storage and maintenance.	In location subject to washing by hosing down and where connections are subject to heavy duty.
Heavy industry	In sheltered store-houses, workshops for maintenance, minor assembly and moulding.	In rolling mills, foundries, blast furnaces, etc., where the connections are exposed to dust, metallic shavings, coolants and are subject to vibrations and impact.
Light industry	Locations without high humidity or ambient pollution serving for assembly, moulding, maintenance and storage.	On premises subject to cleaning by means of chemical solvents. Also where heavy loads require high safety in connections
Installations for EDP centres	Electrical connections executed above floor level.	Electrical connections executed under raised floors with risk of immersion. Where heavy loads require high safety in connections.
Ports	In sheltered locations such as docks, repair shops, offices, etc.	Quays, docks, piers, etc. where there is risk of high waves partial flooding.
Airports	In sheltered locations, hangars, repair shops, store-houses.	Outdoors for connection between mobile or portable appliances and aircraft.
Water treatment plants	Indoor use in repair shops, etc.	In all locations with risk of flooding and for outdoor use with pumps, aeration and ventilation systems.



## INDUSTRIAL PLUGS



3  
2P+E



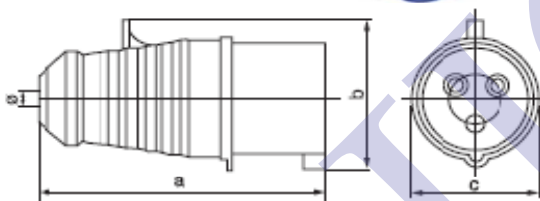
4  
3P+E



5  
3P+N+E

### SPECIFICATIONS

- Operating temperature -20°C to 80°C
- Casing and insert made of engineering plastic with high thermal stability and mechanical strength.
- Self-extinguishing to IEC 695-2-1: casing 650°C (glow-wire) and insert 850°C (glow-wire).
- Seal made of non-ageing EPDM elastomer or rubber.
- Pins of nickel-plated brass for a perfect, lasting electric contact.
- Nickel-plated brass contact tubes with flexible spring for a constant and even contact pressure.
- Nickel-plated steel terminal screws
- Contact tube springs and external screws of zinc-plated steel.
- Grip and lid spring of stainless steel.
- Resistance to rusting: 10 min in 10% aqueous solution of ammonium chloride



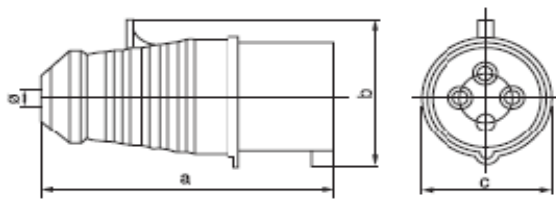
### CODE - JG-013(16A), JG-023(32A)

Current (A): 16A, 32A  
Voltage (V): 220 - 240V~ 2P+E  
Protection Degree: IP44

Earth Contact Position		6h	
Rated Current (A):		16	32
No. of Poles		3	
Dimension (mm)	a	122	139
	b	59	75
	c	51	64
	∅	6	8
Cable Nominal Cross - section area (mm <sup>2</sup> )		1 - 2.5	2.5 - 6

### CODE - JG-014(16A), JG-024(32A)

Current (A): 16A, 32A  
Voltage (V): 380 - 415V~ 3P+E  
Protection Degree: IP44



Earth Contact Position		6h	
Rated Current (A):		16	32
No. of Poles		4	
Dimension (mm)	a	122	139
	b	65	75
	c	55	64
	∅	6	8
Cable Nominal Cross - section area (mm <sup>2</sup> )		1 - 2.5	2.5 - 6



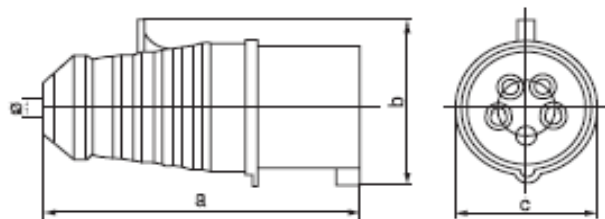
## INDUSTRIAL PLUGS

### CODE - JG-015(16A), JG-025(32A)



Current (A): 16A, 32A  
Voltage (V): 220 - 380V~(16A), 240 - 415V~(32A) 3P+N+E  
Protection Degree IP44

Earth Contact Position	6h	
Rated Current (A):	16	32
No. of Poles	5	
Dimension (mm)	a	130
	b	72
	c	64
	∅	8
Cable Nominal Cross - section area (mm <sup>2</sup> )	1 - 2.5	2.5 - 6



### CODE - JG-033(63A), JG-043(125A)

Current (A): 63A, 125A  
Voltage (V): 220 - 240V~ 2P+E  
Protection Degree: IP67

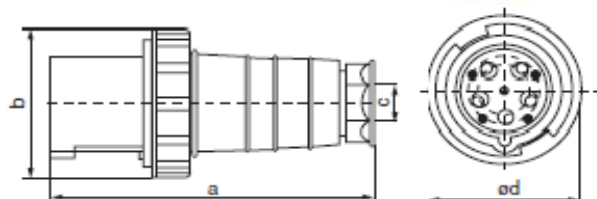
Earth Contact Position	6h	
Rated Current (A):	63	125
No. of Poles	3	
Dimension (mm)	a	231.5
	b	110
	c	16-38
	∅	110
Cable Nominal Cross - section area (mm <sup>2</sup> )	6 - 16	16 - 50



### CODE - JG-035(63A), JG-045(125A)

Current (A): 63A, 125A  
Voltage (V): 220 - 380V~(63A), 240 - 415V~(125A) 3P+N+E  
Protection Degree IP67

Earth Contact Position	6h	
Rated Current (A):	63	125
No. of Poles	5	
Dimension (mm)	a	231.5
	b	110
	c	16-38
	∅	110
Cable Nominal Cross - section area (mm <sup>2</sup> )	6 - 16	16 - 50

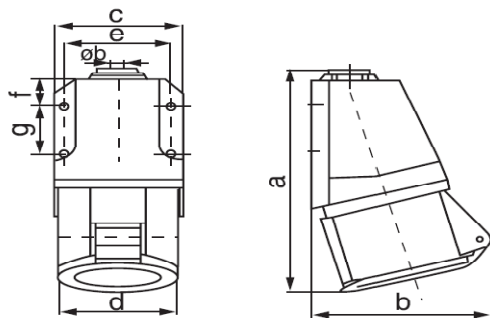


## WALL MOUNTED SOCKETS



CODE - JG-113(16A), JG-123(32A)

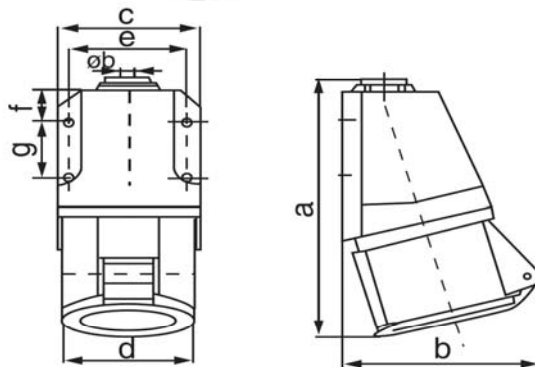
Current (A): 16A, 32A  
Voltage (V): 220 - 240V~ 2P+E  
Protection Degree: IP44



Earth Contact Position	6h	
Rated Current (A):	16	32
No. of Poles	3	
Dimension (mm)		
a	135	153
b	92	102
c	71	71
d	50	65
e	57	57
f	20	20
g	32.5	32.5
h	6.5	6.5
Cable Nominal Cross - section area (mm <sup>2</sup> )	1 - 2.5	2.5 - 6

CODE - JG-114(16A), JG-124(32A)

Current (A): 16A, 32A  
Voltage (V): 380 - 415V~ 3P+E  
Protection Degree: IP44



Earth Contact Position	6h	
Rated Current (A):	16	32
No. of Poles	4	
Dimension (mm)		
a	140	152
b	95	104
c	71	71
d	56	64.5
e	57	57
f	20	20
g	32.5	32.5
h	6.5	6.5
Cable Nominal Cross - section area (mm <sup>2</sup> )	1 - 2.5	2.5 - 6

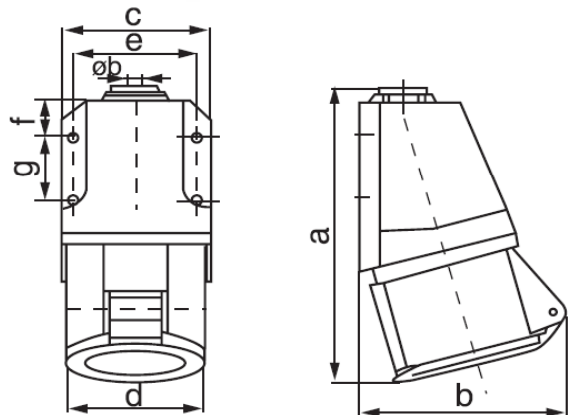


## WALL MOUNTED SOCKETS



CODE - JG-115(16A), JG-125(32A)

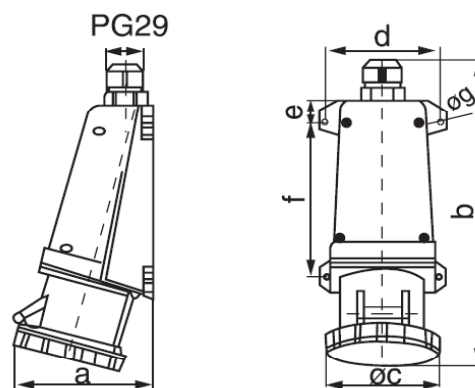
Current (A): 16A, 32A  
 Voltage (V): 220 - 380V~(16A), 240 - 415V~(32A) 3P+N+E  
 Protection Degree: IP44



Earth Contact Position	6h	
Rated Current (A):	16	32
No. of Poles	5	
Dimension (mm)	a	139
	b	100
	c	71
	d	63
	e	57
	f	20
	g	32.5
	h	6.2
Cable Nominal Cross - section area (mm <sup>2</sup> )	1 - 2.5	2.5 - 6

CODE - JG-133(63A), JG-143(125A)

Current (A): 63A, 125A  
 Voltage (V): 220 - 240V~ 2P+E  
 Protection Degree: IP67



Earth Contact Position	6h	
Rated Current (A):	63	125
No. of Poles	3	
Dimension (mm)	a	134
	b	311
	c	108
	d	111
	e	20
	f	153
	g	6
Cable Nominal Cross - section area (mm <sup>2</sup> )	6 - 25	25 - 70

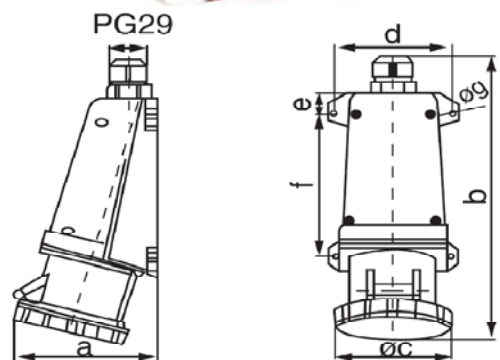


## WALL MOUNTED SOCKETS



CODE - JG-135(63A), JG-145(125A)

Current (A): 63A, 125A  
 Voltage (V): 220 - 380V~(63A), 240 - 415V~(125A) 3P+N+E  
 Protection Degree: IP67



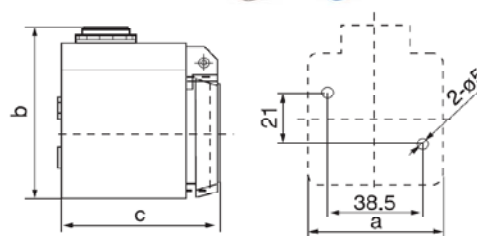
Earth Contact Position	6h	
Rated Current (A):	63	125
No. of Poles	5	
Dimension (mm)	a	134
	b	311
	c	108
	d	111
	e	20
	f	153
	g	6
Cable Nominal Cross - section area (mm <sup>2</sup> )	6 - 25	25 - 70

## TWO POLE PROTECTION SOCKET

CODE - JG-112

Current (A): 16A  
 Voltage (V): 220 - 240V~ 2P+E  
 Protection Degree: IP44

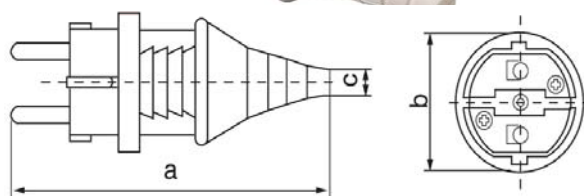
No. of Poles	3	
Dimension (mm)	a	54
	b	73
	c	64
Cable Nominal Cross - section area (mm <sup>2</sup> )	1 - 2.5	



## TWO POLE PROTECTION PLUG

CODE - JG-012

Current (A): 16A  
 Voltage (V): 220 - 240V~ 2P+E  
 Protection Degree: IP44



No. of Poles	3	
Dimension (mm)	a	104
	b	42
	c	5
Cable Nominal Cross - section area (mm <sup>2</sup> )	1 - 2.5	



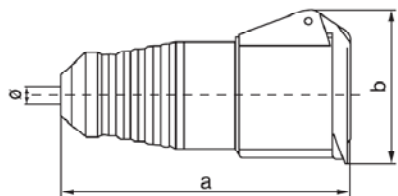
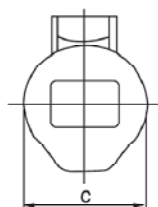


## INDUSTRIAL STRAIGHT SOCKETS

### CODE - JG-213(16A), JG-223(32A)



Current (A): 16A, 32A  
Voltage (V): 220 - 240V~ 2P+E  
Protection Degree: IP44



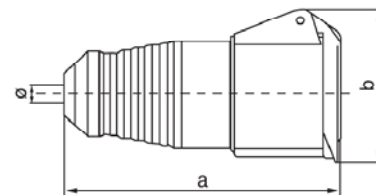
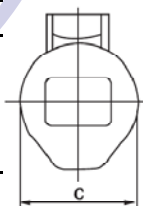
Earth Contact Position	6h	
Rated Current (A):	16	32
No. of Poles	3	
Dimension (mm)	a	131
	b	68
	c	50
	∅	6
Cable Nominal Cross - section area (mm <sup>2</sup> )	1 - 2.5	2.5 - 6

### CODE - JG-214(16A), JG-224(32A)

Current (A): 16A, 32A  
Voltage (V): 380 - 415V~ 3P+E  
Protection Degree: IP44



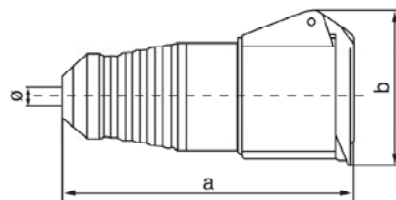
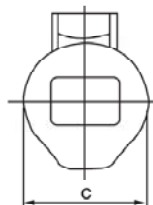
Earth Contact Position	6h	
Rated Current (A):	16	32
No. of Poles	4	
Dimension (mm)	a	131
	b	79
	c	56
	∅	6
Cable Nominal Cross - section area (mm <sup>2</sup> )	1 - 2.5	2.5 - 6



### CODE - JG-215(16A), JG-225(32A)



Current (A): 16A, 32A  
Voltage (V): 220 - 380V~(16A), 240 - 415V~(32A) 3P+N+E  
Protection Degree: IP44



Earth Contact Position	6h	
Rated Current (A):	16	32
No. of Poles	5	
Dimension (mm)	a	139
	b	90
	c	63
	∅	8
Cable Nominal Cross - section area (mm <sup>2</sup> )	1 - 2.5	2.5 - 6

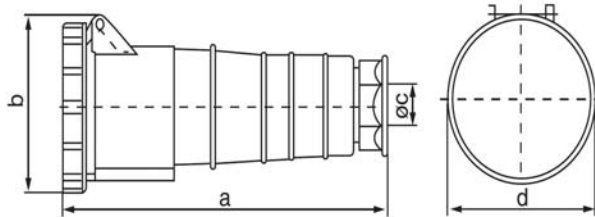


## INDUSTRIAL STRAIGHT SOCKETS



CODE - JG-233(63A), JG-243(125A)

Current (A): 63A, 125A  
Voltage (V): 220 - 240V~ 2P+E  
Protection Degree: IP67



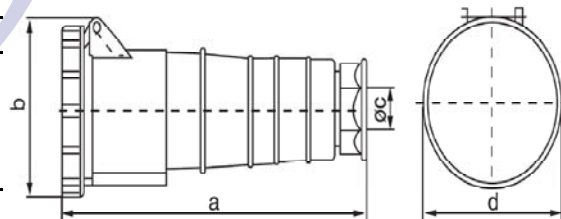
Earth Contact Position	6h	
Rated Current (A):	63	125
No. of Poles	3	
Dimension (mm)	a	240
	b	115
	c	16-38
	∅	108
Cable Nominal Cross - section area (mm <sup>2</sup> )	6 - 16	16 - 50

CODE - JG-235(63A), JG-245(125A)

Current (A): 63A, 125A  
Voltage (V): 220 - 380V~(63A), 240 - 415V~(125A) 3P+N+E  
Protection Degree: IP67



Earth Contact Position	6h	
Rated Current (A):	63	125
No. of Poles	5	
Dimension (mm)	a	240
	b	115
	c	16-38
	∅	108
Cable Nominal Cross - section area (mm <sup>2</sup> )	6 - 16	16 - 50



## INSULATED CORD END CABLE TERMINALS

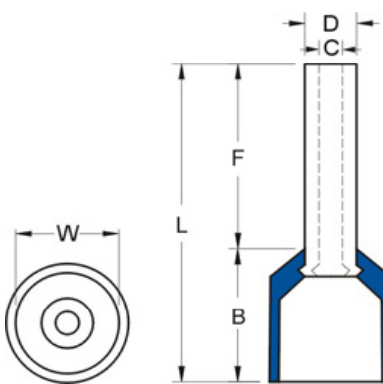
### APPLICATIONS

Cable terminal is a connecting device with barrel accommodating respective conductor size of electrical cable & which has fixing arrangements of termination by means of a bolt fixing or pin insertions in tunnel type terminal blocks. Manufactured from soft drawn, pure, high conductivity copper tubes, they are fully annealed to ensure qualities of electrical and mechanical strength.

They are mainly used for control cables, terminal station, flexible core, etc. Pin type terminal ends are generally available for crimping type of connections which are made out of high conductivity copper

### SPECIFICATIONS

- Maximum Electrical Rating : 150°C Ui : 300V.
- Connector Material: Copper Tube.
- Insulation Material: Nylon



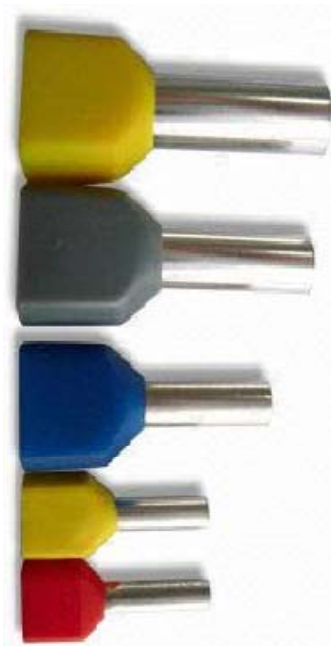
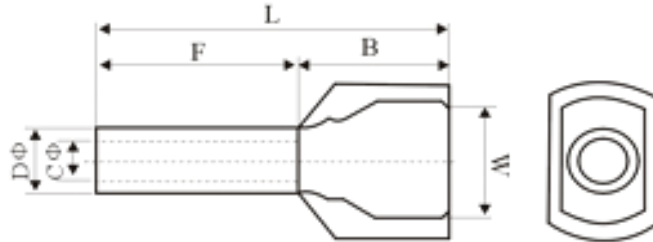
ITEM NO.	DIMENSION (MM)						CLNLE SQ		INSULATION COLOR							
	F	L	W	B	D	C	A.W.G	mm2								
E0506	6	12	2.6	6	1.3	1	#22	0.5	Orange							
E0508	8	14														
E0510	10	16														
E0512	12	18														
E7506	6	12.4	2.8	6.4	1.5	1.2	#20	0.75	White							
E7508	8	14.6														
E7510	10	16.4														
E7512	12	18.4														
E7518	18	24.4	3	6.4	1.7	1.4	#18	1	Blue							
E1006	6	12.4														
E1008	8	14.6														
E1010	10	16.4														
E1012	12	18.4	3.5	6.4	2	1.7	#16	1.5	Yellow							
E1508	8	14.6														
E1510	10	16.4														
E1518	18	24.4														
E2508	8	15.2	4	7	2.6	2.3	#14	2.5	Red							
E2512	12	19														
E2518	18	25														
E4009	9	16.5								4.4	7.5	3.2	2.8	#12	4	Red Black
E4012	12	19.5														
E4018	18	25.5														
E6012	12	20	6.3	8	3.9	3.5	#10	6	Blue Grey							
E6018	18	26														
E10-12	12	21.5								7.6	9.5	4.9	4.5	#7	10	Grey Orange
E10-18	18	27.5														
E16-12	12	22.2	8.8	10.2	6.2	5.8	#5	16	Black Green							
E16-18	18	28.2														
E25-16	16	29								11.2	13	7.9	7.5	#4	25	Milky White
E25-22	22	35														
E35-16	16	30	12.7	14	8.7	8.3	#2	35	Brown Green							
E35-25	25	39														
E50-20	20	36								15.3	16	10.9	10.3	#1	50	Black
E50-25	25	41														



## CREWEL TUBE PRE-INSULATING/ TWIN TERMINALS

### SPECIFICATIONS

- Maximum Electrical Rating : 150°C Ui : 300V.
- Connector Material: Copper Tube.
- Insulation Material: Nylon



ITEM NO.	CONDUCTOR (mm <sup>2</sup> )	DIMENSION (MM)						INSULATION COLOR
		F	L	W	B	D	C	
TE-0508	2×0.5	8	14.5	5	6.5	1.8	1.5	White
TE-7508	2×0.75	8	14.7	5.5	6.7	2.1	1.8	Blue
TE-7510	2×0.75	10	16.07	5.5	6.7	2.1	1.8	Grey
TE-1008	2×1.0	8	15.1	5.5	7.1	2.3	2	Red
TE-1010	2×1.0	10	17.1	5.5	7.1	2.3	2	
TE-1508	2×1.5	8	15.5	6.4	7.2	2.6	2.3	Black
TE-1512	2×1.5	12	19.5	6.4	7.5	2.6	2.3	
TE-2510	2×2.5	10	18.5	8	8.5	3.3	2.9	Grey
TE-2513	2×2.5	13	21.5	8	8.5	3.3	2.9	Blue
TE-4012	2×4.0	12	23.1	8.8	11.1	4.2	3.8	Orange Grey
TE-6014	2×6.0	14	26.1	9.5	12.1	5.3	4.9	Green Yellow
TE-10-14	2×10.0	14	26.6	12.6	12	6.9	6.5	Brown Green Red
TE-16-14	2×16.0	14	31.3	19	17.3	8.7	8.3	Milky White White



## HEAVY DUTY CONNECTOR 6 POLE (JG-HE-006)



### APPLICATIONS

Heavy-duty connectors are used wherever there is a need for a secure, simple and time-saving assembly of machinery and facilities. The connector housings are made of die-cast aluminum and offer excellent protection against dirt, moisture and mechanical stress. Special modular connectors make it possible to integrate signals, power supply, pneumatics, and data connections into a single connector.

### HE SERIES 6 POLES FEMALE(SCREW)

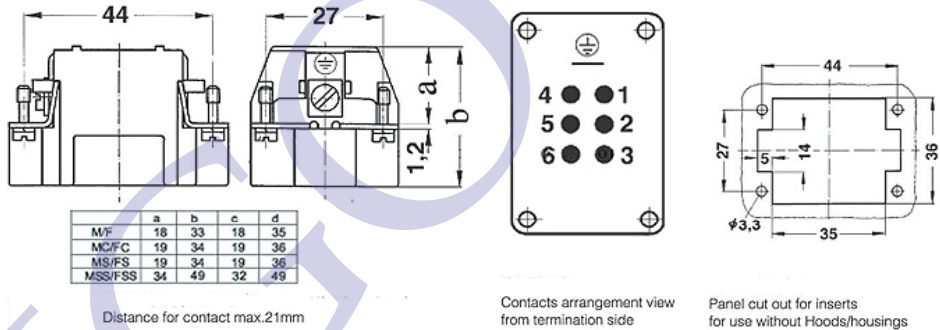


### HE SERIES 6 POLES MALE(SCREW)



### INSERTS - SPECIFICATIONS

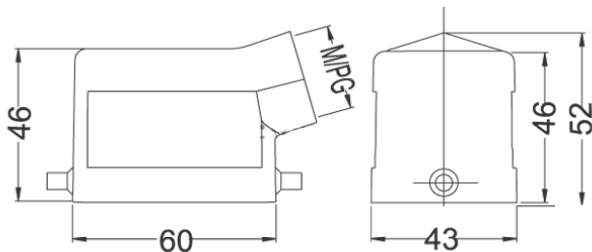
Working Current :	16A
Working Voltage :	500V
Rated Impulse Voltage :	6KV
Isolation Resistance :	$\geq 10^{10}\Omega$
Temperature Range :	-40°C to 125°C



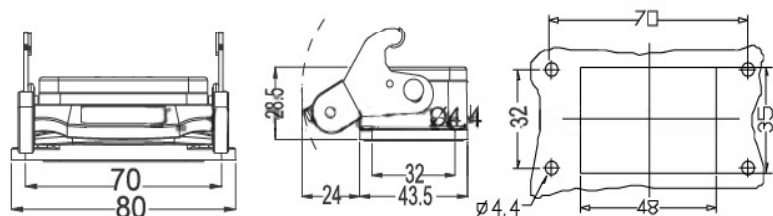
### HOODS AND HOUSING - SPECIFICATIONS

Materials :	Die-casting aluminum alloy
Color :	Alloy
Interlocking Components:	Stainless Steel or Galvanized Steel Buttons
Galvanized Steel :	IP65
Temperature Range :	-40°C to 125°C
Flammability Acc :	V0 (UL94)

### SIDE ENTRY HOOD(ONE LEVER)



### BULKHEAD HOUSING(ONE LEVER)



## HEAVY DUTY CONNECTOR 10 POLE (JG-HE-010)

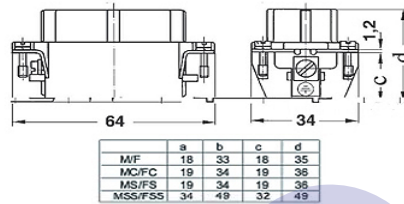


### HE SERIES 10 POLES FEMALE(SCREW)

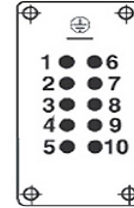


### INSERTS - SPECIFICATIONS

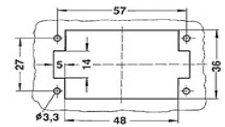
Working Current :	16A
Working Voltage :	500V
Rated Impulse Voltage :	6KV
Isolation Resistance :	$\geq 10^{10}\Omega$
Temperature Range :	-40°C to 125°C
Flammability Acc :	V0 (UL94)



Distance for contact max.21mm

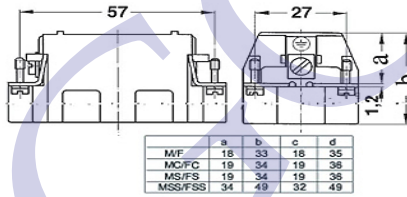


Contacts arrangement view from termination side

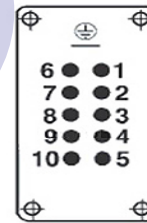


Panel cut out for inserts for use without Hoods/housings

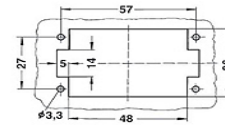
### HE SERIES 10 POLES MALE(SCREW)



Distance for contact max.21mm



Contacts arrangement view from termination side



Panel cut out for inserts for use without Hoods/housings

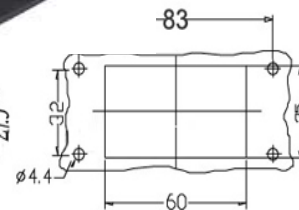
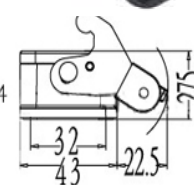
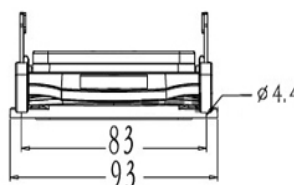
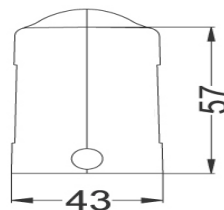
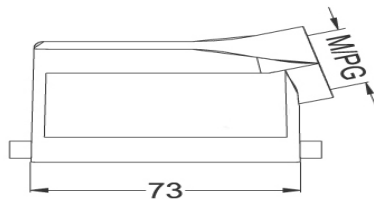
### SIDE ENTRY HOOD(ONE LEVER)



### HOODS AND HOUSING - SPECIFICATIONS

Materials :	Die-casting aluminum alloy
Color :	Alloy
Interlocking Components:	Stainless Steel or Galvanized Steel Buttons
Galvanized Steel :	IP65
Temperature Range :	-40°C to 125°C
Flammability Acc :	V0 (UL94)

### BULKHEAD HOUSING(ONE LEVER)



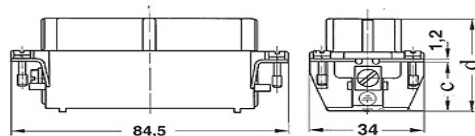
## HEAVY DUTY CONNECTOR 16 POLE (JG-HE-016)



### INSERTS - SPECIFICATIONS

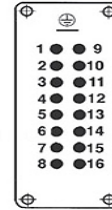
Working Current :	16A
Working Voltage :	500V
Rated Impulse Voltage :	6KV
Isolation Resistance :	$\geq 10^{10} \Omega$
Temperature Range :	-40°C to 125°C
Flammability Acc :	V0 (UL94)

### HE SERIES 16 POLES FEMALE(SCREW)



	a	b	c	d
M/F	18	33	18	35
MC/FC	19	34	19	36
MS/FS	19	34	19	36
MSS/FSS	34	49	32	49

Distance for contact max.21mm

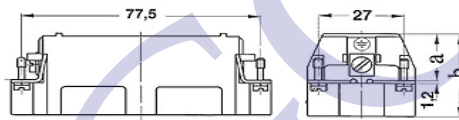


Contacts arrangement view from termination side



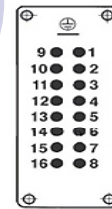
Panel cut out for inserts for use without Hoods/housings

### HE SERIES 16 POLES MALE(SCREW)

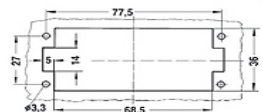


	a	b	c	d
M/F	18	33	18	35
MC/FC	19	34	19	36
MS/FS	19	34	19	36
MSS/FSS	34	49	32	49

Distance for contact max.21mm



Contacts arrangement view from termination side



Panel cut out for inserts for use without Hoods/housings

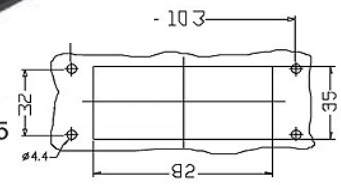
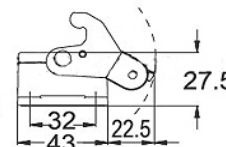
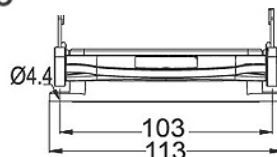
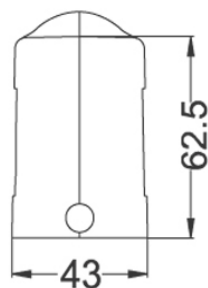
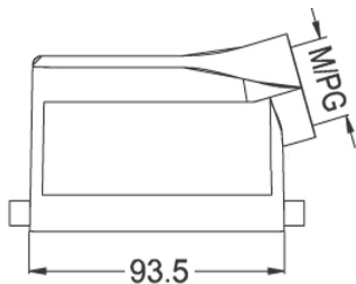
### SIDE ENTRY HOOD(ONE LEVER)



### HOODS AND HOUSING - SPECIFICATIONS

Materials :	Die-casting aluminum alloy
Color :	Alloy
Interlocking Components:	Stainless Steel or Galvanized Steel Buttons
Galvanized Steel :	IP65
Temperature Range :	-40°C to 125°C
Flammability Acc :	V0 (UL94)

### BULKHEAD HOUSING(ONE LEVER)



Panel cut out



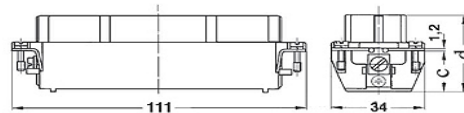
## HEAVY DUTY CONNECTOR 24 POLE (JG-HE-024)



### INSERTS - SPECIFICATIONS

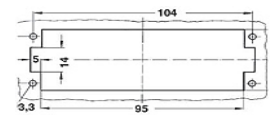
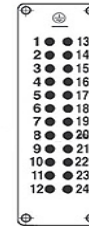
Working Current :	16A
Working Voltage :	500V
Rated Impulse Voltage :	6KV
Isolation Resistance :	$\geq 10^{10} \Omega$
Temperature Range :	-40°C to 125°C
Flammability Acc :	V0 (UL94)

### HE SERIES 24 POLES FEMALE(SCREW)



	a	b	c	d
M/F	18	33	18	35
MC/FC	19	34	19	36
MS/FS	19	34	19	36
MSS/SSS	34	49	32	49

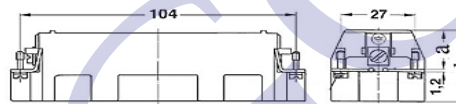
Distance for contact max:21mm



Contacts arrangement view from termination side

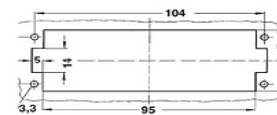
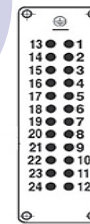
Panel cut out for inserts for use without Hoods/housings

### HE SERIES 24 POLES MALE(SCREW)



	a	b	c	d
M/F	18	33	18	35
MC/FC	19	34	19	36
MS/FS	19	34	19	36
MSS/SSS	34	49	32	49

Distance for contact max:21mm



Contacts arrangement view from termination side

Panel cut out for inserts for use without Hoods/housings

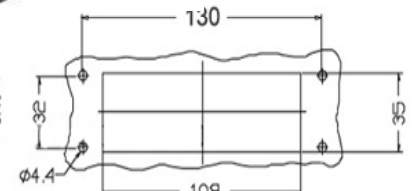
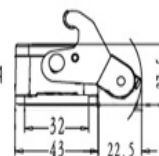
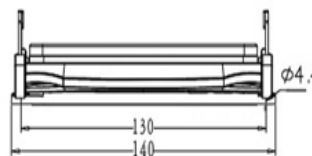
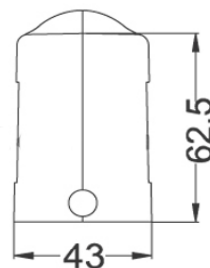
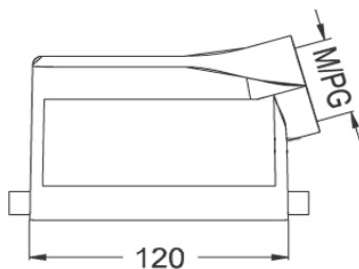
### SIDE ENTRY HOOD(ONE LEVER)



### HOODS AND HOUSING - SPECIFICATIONS

Materials :	Die-casting aluminum alloy
Color :	Alloy
Interlocking Components:	Stainless Steel or Galvanized Steel Buttons
Galvanized Steel :	IP65
Temperature Range :	-40°C to 125°C
Flammability Acc :	V0 (UL94)

### BULKHEAD HOUSING(ONE LEVER)





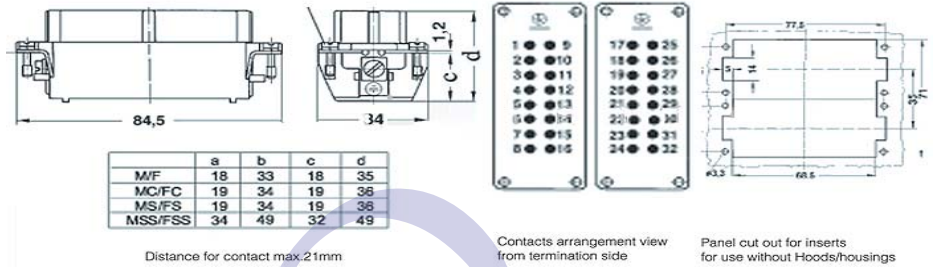
## HEAVY DUTY CONNECTOR 32 POLE (JG-HE-032)



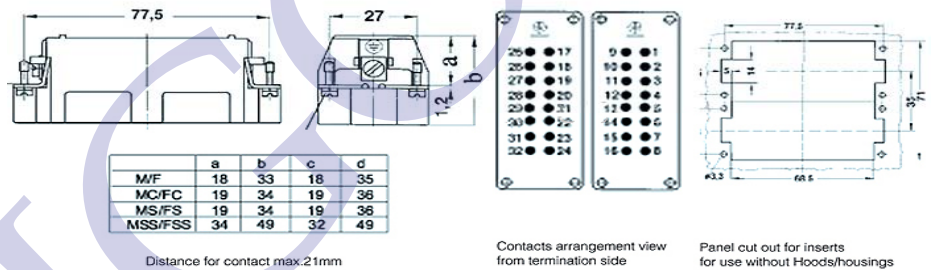
### INSERTS - SPECIFICATIONS

Working Current :	16A
Working Voltage :	500V
Rated Impulse Voltage :	6KV
Isolation Resistance :	$\geq 10^{10}\Omega$
Temperature Range :	-40°C to 125°C
Flammability Acc :	V0 (UL94)

### HE SERIES 32 POLES FEMALE(SCREW)



### HE SERIES 32 POLES MALE(SCREW)



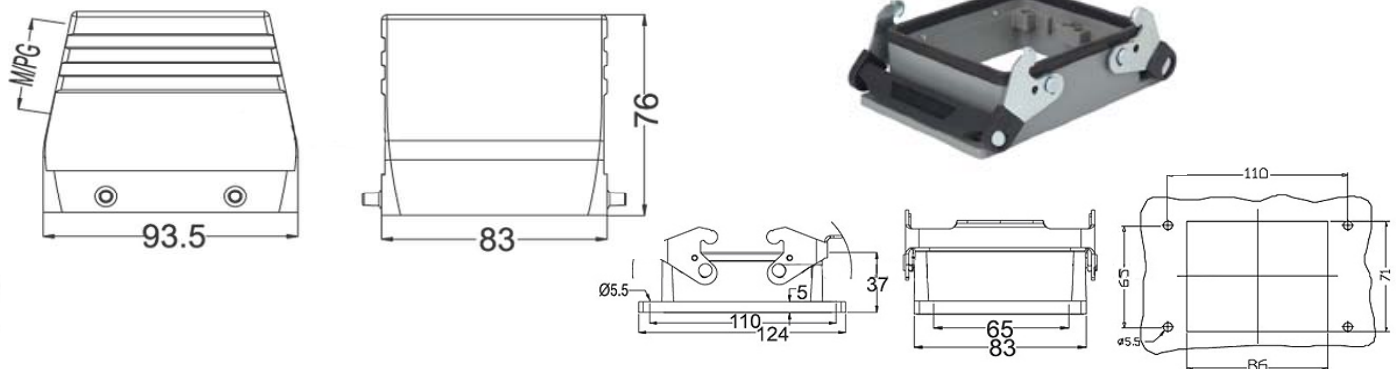
### SIDE ENTRY HOOD(ONE LEVER)



### HOODS AND HOUSING - SPECIFICATIONS

Materials :	Die-casting aluminum alloy
Color :	Alloy
Interlocking Components:	Stainless Steel or Galvanized Steel Buttons
Galvanized Steel :	IP65
Temperature Range :	-40°C to 125°C
Flammability Acc :	V0 (UL94)

### BULKHEAD HOUSING(ONE LEVER)



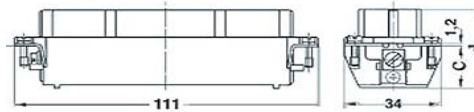
## HEAVY DUTY CONNECTOR 48 POLE (JG-HE-048)



### INSERTS - SPECIFICATIONS

Working Current :	16A
Working Voltage :	500V
Rated Impulse Voltage :	6KV
Isolation Resistance :	$\geq 10^{10}\Omega$
Temperature Range :	-40°C to 125°C
Flammability Acc :	V0 (UL94)

### HE SERIES 48 POLES FEMALE(SCREW)

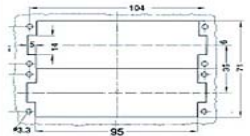


	a	b	c	d
M/F	18	33	18	35
MC/FC	19	34	19	36
MS/FS	19	34	19	36
MSS/FSS	34	49	32	49

Distance for contact max:21mm

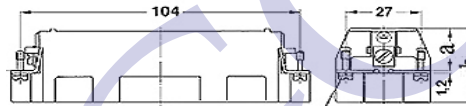


Contacts arrangement view from termination side



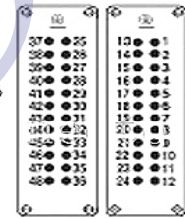
Panel cut out for inserts for use without Hoods/housings

### HE SERIES 48 POLES MALE(SCREW)

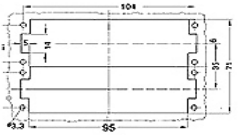


	a	b	c	d
M/F	18	33	18	35
MC/FC	19	34	19	36
MS/FS	19	34	19	36
MSS/FSS	34	49	32	49

Distance for contact max:21mm



Contacts arrangement view from termination side



Panel cut out for inserts for use without Hoods/housings

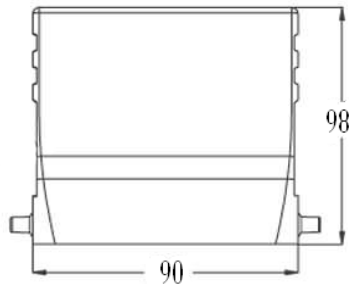
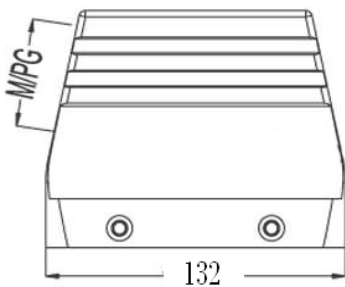
### SIDE ENTRY HOOD(TWO LEVERS)



### HOODS AND HOUSING - SPECIFICATIONS

Materials :	Die-casting aluminum alloy
Color :	Alloy
Interlocking Components:	Stainless Steel or Galvanized Steel Buttons
Galvanized Steel :	IP65
Temperature Range :	-40°C to 125°C
Flammability Acc :	V0 (UL94)

### BULKHEAD HOUSING(TWO LEVER)



## CIRCLE CABLE NAIL CLIP

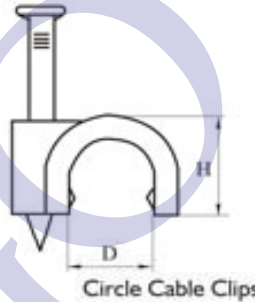


### APPLICATION

Cable clips are devices that are used to manage cables and wires by securing them to a surface such as a floor, wall, or ceiling. They are used by engineering and industrial companies to manage the many cables associated with the machinery they use on a daily basis. Cable clips are also used in homes to ensure that cables used in home entertainment systems such as televisions, sound systems and gaming systems remain unobtrusive. They come in many different shapes and sizes to accommodate almost any number of cables of any size.

### SPECIFICATION

- Material : PE
- Elasticity and Shock resisting.
- Color : White.
- Inserting type, nail attached in clips.



ITEM.NO.	H (MM)	CIRCLE PATH 'D'	NAIL
		(MM)	
JG - 3MM	3.6	3	1.4×15
JG - 3.5MM	4.2	3.5	1.47×14
JG - 4MM	5.3	4	1.7×14
JG - 5MM	6	5	1.7×14
JG - 6MM	8	6	1.82×16
JG - 7MM	8.7	7	1.82×18
JG - 8MM	9.5	8	1.95×19
JG - 9MM	11	9	2.05×22
JG - 10MM	12	10	2.1×23
JG - 12MM	13.5	12	2.2×25
JG - 14MM	16.5	14	2.3×30
JG - 16MM	18	16	2.35×32
JG - 17MM	20	17	2.6×38
JG - 18MM	20.5	18	2.6×38
JG - 20MM	22.5	20	2.7×40
JG - 22MM	23.5	22	2.9×43
JG - 25MM	26.5	25	3.1×50
JG - 30MM	32.5	30	3.5×55
JG - 32MM	34.5	32	3.5×55
JG - 35MM	38	35	3.5×60
JG - 40MM	43.8	40	3.5×65



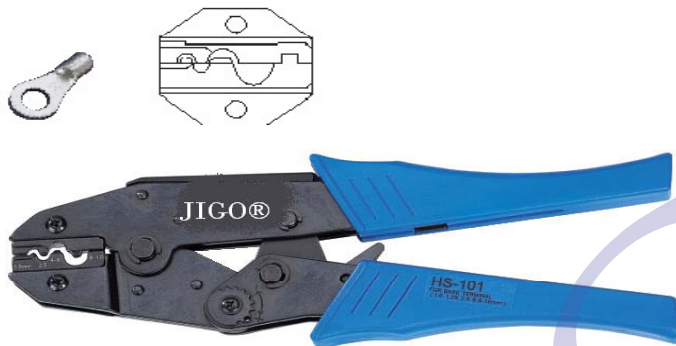
## HAND CRIMPING TOOLS

### SPECIFICATIONS

- The components of the ratchet crimping tools are made of special steel.
- Designed according to human factors engineering, it can save 50% energy when crimping
- Precise crimping die sets and integral lock with self releasing mechanism ensure high-quality crimping effect after crimping repeatedly.
- Accurate adjustment before ex works delivery
- Due best handle grasping position, light and compact structure and handle design ensure perfect crimping effect.

#### CODE - JG-HS-101

Application : For Non - Insulated Terminal



Capacity :	1.5 - 10 mm <sup>2</sup>
AWG :	16 - 8 AWG
Length :	230 mm
Weight :	0.6 Kg.

#### CODE - JG-HS-03B

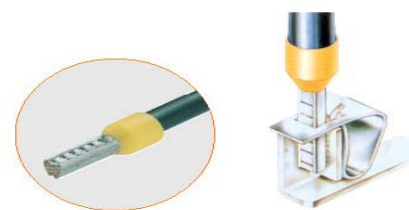
Application : For Non - Insulated Tabs & Receptacles



Capacity :	1.5 - 8 mm <sup>2</sup>
AWG :	16 - 10 AWG
Length :	230 mm
Weight :	0.6 Kg.

#### CODE - JG-HS-16WF

Application : For Non - Insulated Tabs & Receptacles



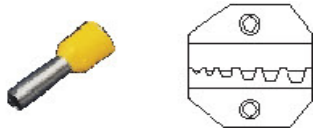
Capacity :	6 - 16 mm <sup>2</sup>
AWG :	10 - 6 AWG
Length :	203 mm
Weight :	0.4 Kg.



## HAND CRIMPING TOOLS

CODE - JG-HS-06WF

Application : For Non - Insulated Terminal



Capacity :	1.5 - 10 mm <sup>2</sup>
AWG :	16 - 8 AWG
Length :	230 mm
Weight :	0.6 Kg.

CODE - JG-HS-16

Application : For Non - Insulated Terminal (Point Type)

- With ratchet device, convenient operation and fine rust prevention
- Life time more than 30,000 times.

Capacity :	1.25 - 16 mm <sup>2</sup>
AWG :	20 - 6 AWG
Length :	270 mm
Weight :	0.55 Kg.



CODE - JG-HX-26B

Application : For Non - Insulated Terminal (Hexagonal Type)

- With ratchet device, convenient operation and fine rust prevention
- Life time more than 30,000 times.



Capacity :	6 - 25 mm <sup>2</sup>
AWG :	10 - 4 AWG
Length :	354 mm
Weight :	0.85 Kg.



## HAND CRIMPING TOOLS

CODE - JG-HS-38

Application : For Non - Insulated Terminal

- With ratchet device, convenient operation and fine rust prevention
- Life time more than 30,000 times.



Releasing Device ensure safe operation

Capacity :	5.5 - 38 mm <sup>2</sup>
AWG :	10 - 2 AWG
Length :	356 mm
Weight :	0.85 Kg.

## COPPER TUBE TERMINAL CRIMPING TOOL

### SPECIFICATIONS

· The crimping tools is used for non-welding and standard electrical connection. The mould of the crimping month is made of SCM-40 hardest tool steel. It is with the characteristics of long life, accurate bore diameter and good crimping effect.

CODE - JG-HX-50B

Application : For Terminating Cable Lugs



Capacity :	6 - 50 mm <sup>2</sup>
Length :	390 mm
Weight :	1.3 Kg.

CODE - JG-HX-150B

Application : For Terminating Cable Lugs



Capacity :	25 - 150 mm <sup>2</sup>
Length :	620 mm
Weight :	4.0 Kg.



## COPPER TUBE TERMINAL CRIMPING TOOL

CODE - JG-HX-120B

Application : For Terminating Cable Lugs



Capacity :	10 - 120 mm <sup>2</sup>
Length :	620 mm
Weight :	4.0 Kg.

CODE - JG-CT-150

Application : For Terminating Cable Lugs



Capacity :	16 - 150 mm <sup>2</sup>
Length :	765 mm
Weight :	5.2 Kg.

CODE - JG-HX-120B

Application : For Terminating Cable Lugs. The crimping tools is used for non-welding and standard electrical connection. All the components are made of special steel, treated by special quenching and annealing. The head of the month tool has been polished. The tools is with the characteristics of long life and the diameter of the crimping month can be adjusted according to the size of the terminal.



Capacity :	10 - 120 mm <sup>2</sup> AL/CU
AWG :	8 - 250 AWG
Length :	610 mm
Weight :	3.1 Kg.

CODE - JG-CT-150

Application : For Terminating Cable Lugs. The crimping tools is used for non-welding and standard electrical connection. All the components are made of special steel, treated by special quenching and annealing. The head of the month tool has been polished. The tools is with the characteristics of long life and the diameter of the crimping month can be adjusted according to the size of the terminal.



Capacity :	10 - 240 mm <sup>2</sup> AL/CU
AWG :	8 - 500 AWG
Length :	980 mm
Weight :	4.7 Kg.



## HYDRAULIC TOOL

CODE - JG-YQK-300A

**Application :** It is applicable to press connection of cable copper and aluminum terminal bushing;  
Hexagonal mould is adopted to ensure tight press connection.



Capacity :	10 - 240 mm <sup>2</sup> {AL} 16 - 300 mm <sup>2</sup> {CU}
Crimping Force :	10 Ton
Stroke :	16 mm
Standard Dies :	16,25,35,50,70,95,120,150, 185,240,300 mm <sup>2</sup>
Weight :	4.8 Kg.

CODE - JG-FYQ-400

Split - Unit Hydraulic Pliers



Capacity :	16 - 400 mm <sup>2</sup>
Crimping Force :	22 Ton
Stroke :	22 mm
Standard Dies :	16,25,35,50,70,95,120,150, 185,240,300,400 mm <sup>2</sup>
Weight :	20 Kg.

## AUTOMATIC WIRE STRIPPERS

### SPECIFICATIONS

· Precise blade design without damaging the conductor cores. During stripping, the wire is held firm by clamping jaws with adjustable length stop with a spring returns the stripper to the starting position.



CODE - JG-HS-700N

Application : Suitable for peeling a wire



Stripping Range :	0.25 - 5.5 mm <sup>2</sup>
Capacity :	0.5, 1.2, 1.6, 2.0, 2.6, 3 mm <sup>2</sup>
Length :	175 mm
Weight :	350 gm





# INSTRUMENT COOLING FAN

## DC BRUSHLESS COOLING FANS



### APPLICATION

These modern, low priced, compact, sturdy & handy instrument is being used to cooldown overheated parts in innumerable Engineering fields. Our fans use latest technique in manufacturing & design technology, to ensure highest reliability & trouble free performance. Some of the application areas are :

- Business Machines
- Medical Application
- Ultrasonic Equipments
- Water Coolers
- Spark Erosion M/C
- Visi Coolers
- Control Panels

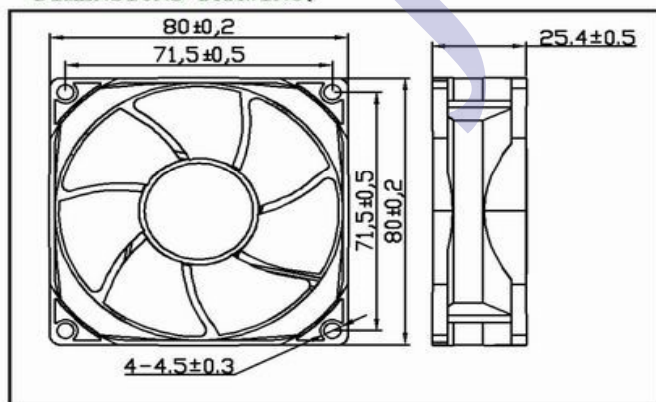
CODE - JG-DC 8025



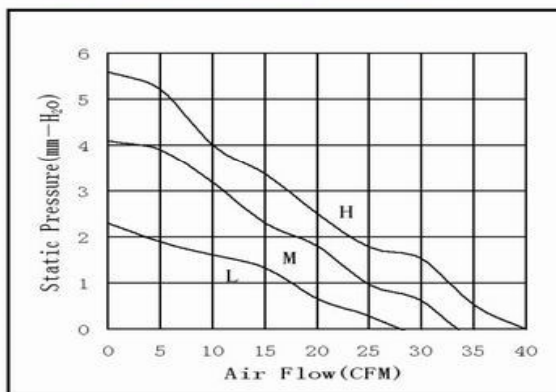
### SPECIFICATIONS

· Size :	80 x 80 x 25 mm
· Bearing System :	Sleeve Bearing & Ball Bearing
· Impeller :	Plastic with Fiber Glass filled UL 94V-0
· Housing :	Plastic with Fiber Glass filled UL 94V-0
· Motor :	Brushless DC
· Connecting :	Red Wire Positive (+) Black Wire Negative (-)
· Speed :	Medium Speed Type
· Insulating Strength :	B
· Withstand Voltage :	DC 500V/0.5mA
· Expected Life :	Ball Bearing - 50,000 hours (40°C) Sleeve Bearing - 30,000 hours (40°C)
· Temperature Range :	Operating -10°C to 70°C Storage -40°C to 70°C <i>(non condensing environment)</i>

### DIMENSIONS DRAWING:



### P & Q CURVE (AT RATED VOLTAGE) :



MODEL NO.	VOLTAGE (V)	CURRENT (A)	POWER (W)	SPEED (RPM)	AIR VOLUME (CFM)	NOISE LEVEL (DB)
JG8025M12	12	0.14	1.68	3000	37	29
JG8025M24	24	0.1	2.4	3000	37.5	29.5



# INSTRUMENT COOLING FAN

**JIGO®**

## DC BRUSHLESS COOLING FANS



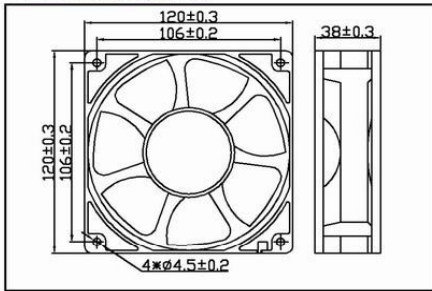
CODE - JG-DC 12038

### SPECIFICATIONS

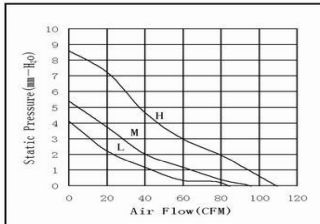
· Size :	120 x 120 x 38 mm
· Bearing System :	Sleeve Bearing & Ball Bearing
· Impeller :	Plastic with Fiber Glass filled UL 94V-0
· Housing :	Plastic with Fiber Glass filled UL 94V-0
· Motor :	Brushless DC
· Withstand Voltage :	DC 500V/0.5mA
· Expected Life :	Ball Bearing - 50,000 hours (40°C) Sleeve Bearing - 30,000 hours (40°C)
· Temperature Range :	Operating -10°C to 70°C Storage -40°C to 70°C

*(non condensing environment)*

DIMENSIONS DRAWING:



P & Q CURVE (AT RATED VOLTAGE) :



MODEL NO.	VOLTAGE (V)	CURRENT (A)	POWER (W)	SPEED (RPM)	AIR VOLUME (CFM)	NOISE LEVEL (DB)
JG12038M24	24	0.20	4.8	2300	100	38
JG12038M48	48	0.18	8.64	2200	120	38.5



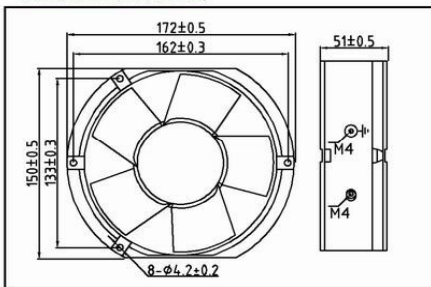
CODE - JG-DC 172150

### SPECIFICATIONS

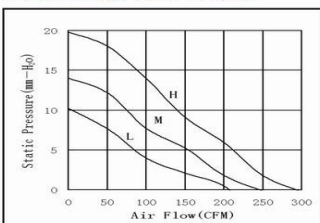
· Size :	172 x 150 x 51 mm
· Bearing System :	Sleeve Bearing & Ball Bearing
· Impeller :	Plastic with Fiber Glass filled UL 94V-0
· Housing :	Die Cast Aluminium
· Motor :	Brushless DC
· Withstand Voltage :	DC 500V/0.5mA
· Expected Life :	Ball Bearing - 50,000 hours (40°C) Sleeve Bearing - 30,000 hours (40°C)
· Temperature Range :	Operating -10°C to 70°C Storage -40°C to 70°C

*(non condensing environment)*

DIMENSIONS DRAWING:



P & Q CURVE (AT RATED VOLTAGE) :



MODEL NO.	VOLTAGE (V)	CURRENT (A)	POWER (W)	SPEED (RPM)	AIR VOLUME (CFM)	NOISE LEVEL (DB)
JG12038M24	24	0.78	18.72	2900	245	55



# INSTRUMENT COOLING FAN

**JIGO®**

## AC AXIAL FAN

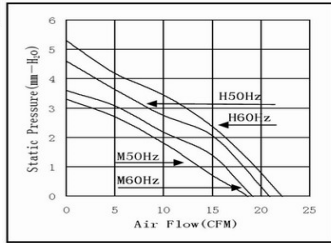
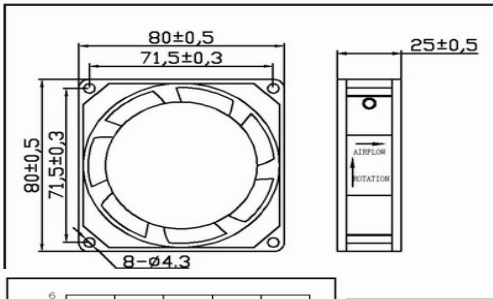


CODE - JG-AC 8025

### SPECIFICATIONS

· Size :	80 x 80 x 25 mm
· Bearing System :	Sleeve Bearing & Ball Bearing
· Impeller :	Plastic with Fiber Glass filled UL 94V-0
· Housing :	Die Cast Aluminium
· Motor :	Shaded Pole, Impedance Protected
· Frequency :	50/60 Hz
· Withstand Voltage :	DC 1500V/0.5mA
· Expected Life :	Ball Bearing - 50,000 hours (40°C) Sleeve Bearing - 30,000 hours (40°C)
· Temperature Range :	Operating -10°C to 70°C Storage -40°C to 70°C

*(non condensing environment)*



MODEL NO.	VOLTAGE (V)	CURRENT (A)	POWER (W)	SPEED (RPM)	AIR VOLUME (CFM)	NOISE LEVEL (DB)
JG8025M220	220/240	0.09/0.08	14/13	2350/2400	15/18	27/28

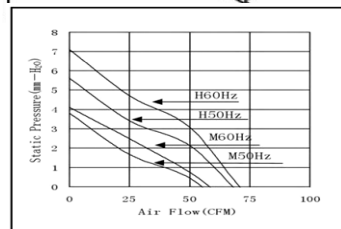
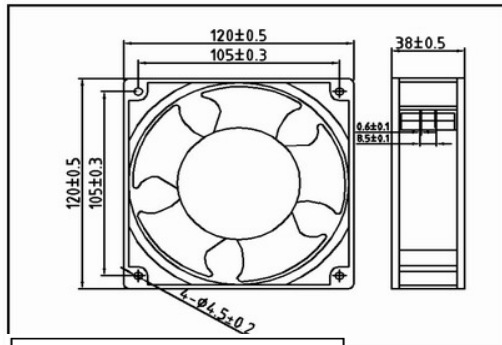


CODE - JG-AC 12038

### SPECIFICATIONS

· Size :	120 x 120 x 38 mm
· Bearing System :	Sleeve Bearing & Ball Bearing
· Impeller :	Plastic with Fiber Glass filled UL 94V-0
· Housing :	Die Cast Aluminium
· Motor :	Shaded Pole, Impedance Protected
· Frequency :	50/60 Hz
· Withstand Voltage :	DC 1500V/0.5mA
· Expected Life :	Ball Bearing - 30,000 hours (40°C) Sleeve Bearing - 10,000 hours (40°C)
· Temperature Range :	Operating -10°C to 70°C Storage -40°C to 70°C

*(non condensing environment)*



MODEL NO.	VOLTAGE (V)	CURRENT (A)	POWER (W)	SPEED (RPM)	AIR VOLUME (CFM)	NOISE LEVEL (DB)
JG12038M110	110/120	0.24/0.23	25/23	2600/3100	90/100	41/44
JG12038M220	220/240	0.14/0.13	26/23	2650/3180	90/100	42/47



# INSTRUMENT COOLING FAN

**JIGO®**

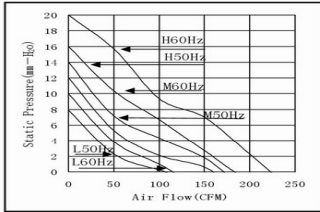
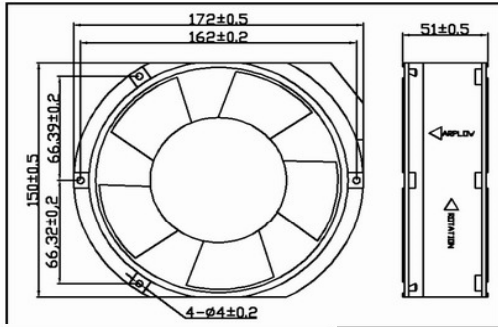
## AC AXIAL FAN



CODE - JG-AC 172150

### SPECIFICATIONS

· Size :	172 x 150 x 51 mm
· Bearing System :	Sleeve Bearing & Ball Bearing
· Impeller :	Plastic with Fiber Glass filled UL 94V-0
· Housing :	Die Cast Aluminium
· Motor :	Shaded Pole, Impedance Protected
Frequency :	50/60 Hz
Withstand Voltage :	DC 1500V/0.5mA
Expected Life :	Ball Bearing - 30,000 hours (40°C) Sleeve Bearing - 10,000 hours (40°C)
Temperature Range :	Operating -10°C to 70°C (non condensing environment) Storage -40°C to 70°C



MODEL NO.	VOLTAGE (V)	CURRENT (A)	POWER (W)	SPEED (RPM)	AIR VOLUME (CFM)	NOISE LEVEL (DB)
JG172150M110	110/120	0.47/0.46	37/35	2400/2800	150/170	47/47.5
JG172150M220	220/240	0.23/0.22	35/33	2400/2800	150/170	45/46

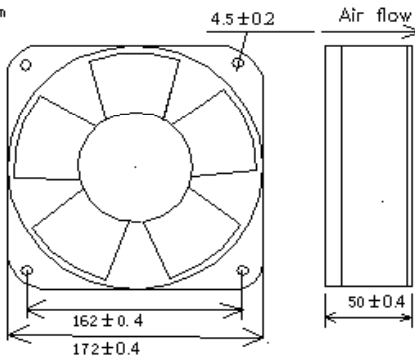


CODE - JG-AC 172-172

### SPECIFICATIONS

· Size :	172 x 172 x 50 mm
· Bearing System :	Sleeve Bearing & Ball Bearing
· Impeller :	Plastic with Fiber Glass filled UL 94V-0
· Housing :	Die Cast Aluminium
· Motor :	Shaded Pole, Impedance Protected
Frequency :	50/60 Hz
Withstand Voltage :	DC 1500V/0.5mA
Expected Life :	Ball Bearing - 30,000 hours (40°C) Sleeve Bearing - 10,000 hours (40°C)
Temperature Range :	Operating -10°C to 70°C (non condensing environment) Storage -40°C to 70°C

Unit in mm



MODEL NO.	VOLTAGE (V)	CURRENT (A)	POWER (W)	SPEED (RPM)	AIR VOLUME (CFM)	NOISE LEVEL (DB)
JG172172M220	220/240	0.30/0.29	55/54	2200/2700	150	65



# INSTRUMENT COOLING FAN

## AC AXIAL FAN

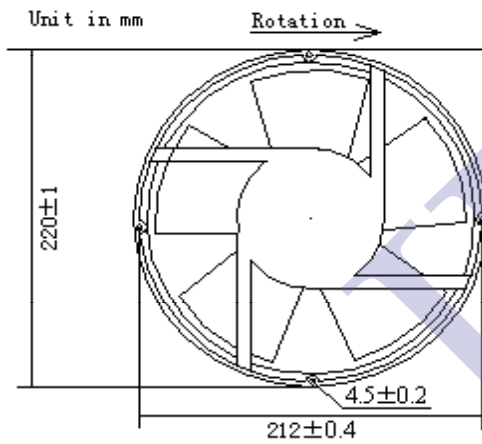


CODE - JG-AC 22060

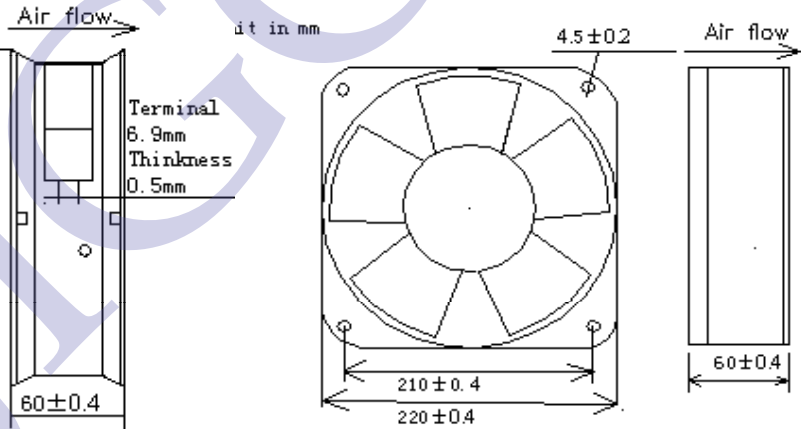
### SPECIFICATIONS

· Size :	172 x 172 x 50 mm
· Bearing System :	Sleeve Bearing & Ball Bearing
· Impeller :	Plastic with Fiber Glass filled UL 94V-0
· Housing :	Die Cast Aluminium
· Motor :	Shaded Pole, Impedance Protected
· Frequency :	50/60 Hz
· Withstand Voltage :	DC 1500V/0.5mA
· Expected Life :	Ball Bearing - 30,000 hours (40°C) Sleeve Bearing - 10,000 hours (40°C)
· Temperature Range :	Operating -10°C to 70°C Storage -40°C to 70°C
	<i>(non condensing environment)</i>

### ROUND



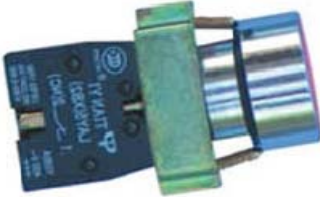
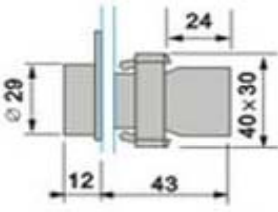
### SQUARE




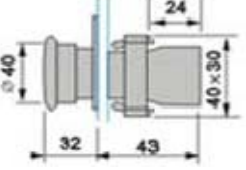
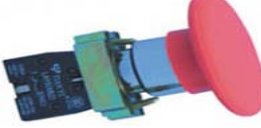
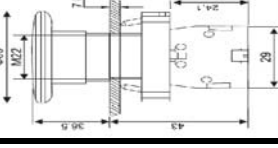

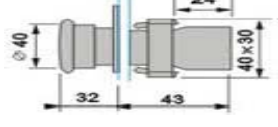

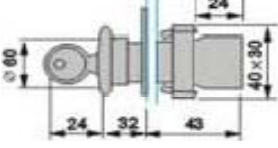
MODEL NO.	VOLTAGE	FREQUENCY	CURRENT	POWER	SPEED	AIR VOLUME	NOISE LEVEL
	(VAC)	(Hz)	(A)	(W)	(RPM)	(CFM)	(DB)
JG22060M220	220/240	50/60	0.38/0.32	72/50	2300/2500	335/350	64/66




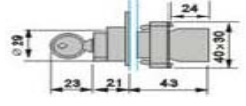
## PUSH BUTTON SPRING RETURN

DESCRIPTION	COLOR	CONTACT TYPE		CODE	OVERALL DIMENSIONS
		NORMALLY OPEN	NORMALLY CLOSED		
 JG-BA●●	BLACK	N/O		JG-BA21	
	GREEN	N/O		JG-BA31	
	YELLOW	N/O		JG-BA51	
	BLUE	N/O		JG-BA61	
	RED		N/C		

## MUSHROOM HEAD PUSH BUTTON

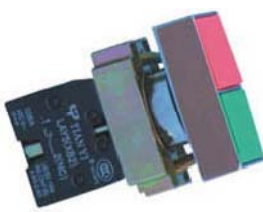
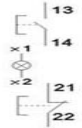

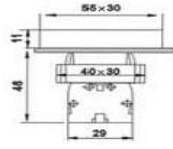
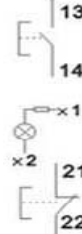

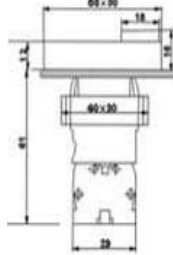
DESCRIPTION	COLOR	CONTACT TYPE		CODE	OVERALL DIMENSIONS
		NORMALLY OPEN	NORMALLY CLOSED		
 JG-BC●●	GREEN	N/O		JG-BC31	
	RED		N/C	JG-BC42	
 JG-BR●●	RED		N/C	JG-BR42	
 JG-BS●●	RED		N/C	JG-BS542	
 JG-BS●●	RED		N/C	JG-BS142	

## KEY SELECTOR SWITCHES - n° 455



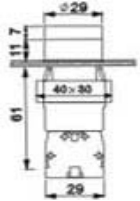





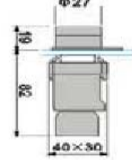



DESCRIPTION	LOCALITY	CONTACT TYPE		CODE	OVERALL DIMENSIONS
		NORMALLY OPEN	NORMALLY CLOSED		
 JG-BG●●	2 POSITION	N/O		JG-BG21	
	3 POSITION	2 N/O		JG-BG33	





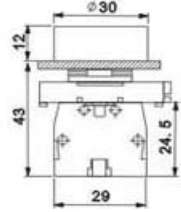




## DOUBLE PUSHBUTTONS

	DESCRIPTION	CIRCUIT	COLOR	CONTACT TYPE		CODE	OVERALL DIMENSIONS
				NORMALLY OPEN	NORMALLY CLOSED		
 <b>JG-BL8325</b>	Without Pilot Light - 1 Green Pushbutton, 1 Red Pushbutton. IP40			N/O	N/C	<b>JG-BL8325</b>	
	1 Flush Green P/B, 1 Pilot Light with Yellow Lens. 220/250V supply direct through resistor BA 9s, 130V bulb included 1 Projecting Red P/B.			N/O	N/C	<b>JG-BL8475</b>	

## ILLUMINATED PUSHBUTTONS

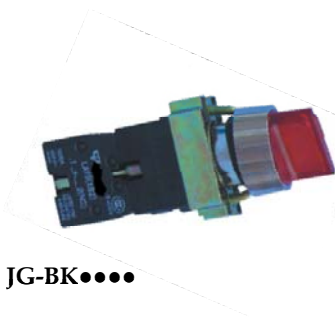
	DESCRIPTION	COLOR	CONTACT TYPE		CODE	OVERALL DIMENSIONS
			NORMALLY OPEN	NORMALLY CLOSED		
 <b>JG-BW●●●●</b>	Direct Bulb Supplied - 220-240V		GREEN	N/O	<b>JG-BW3361</b>	
			RED	N/O	<b>JG-BW3461</b>	
			YELLOW	N/O	<b>JG-BW3561</b>	
			BLUE	N/O	<b>JG-BW3661</b>	
 <b>JG-BK●●●●</b>	Via Integral Resistor BS9s, 130V bulb supplied		GREEN	N/O	<b>JG-BK3371</b>	
			YELLOW	N/O	<b>JG-BK3571</b>	
			BLUE	N/O	<b>JG-BK3671</b>	
			RED	N/C	<b>JG-BK3472</b>	

## FLUSH PUSHBUTTONS

	DESCRIPTION	VOLTAGE	COLOR	CONTACT TYPE		CODE	OVERALL DIMENSIONS
				NORMALLY OPEN	NORMALLY CLOSED		
 <b>JG-EA●●</b>	Even Button Spring Return	13		BLACK	N/O	<b>JG-EA21</b>	
				GREEN	N/O	<b>JG-EA31</b>	
				YELLOW	N/O	<b>JG-EA51</b>	
				BLUE	N/O	<b>JG-EA61</b>	
				RED	N/C	<b>JG-EA42</b>	



## SELECTOR SWITCHES WITH PILOT LIGHT



DESCRIPTION	CIRCUIT	CONTACT TYPE		CODE	OVERALL DIMENSIONS
		NORMALLY OPEN	NORMALLY CLOSED		
2 Position Stay Pur.			N/O N/C	JG-BK2365	
			N/O N/C	JG-BK2465	
			N/O N/C	JG-BK2565	
			N/O N/C	JG-BK2665	

JG-BK●●●●

## SELECTOR SWITCHES



DESCRIPTION	LOCALITY	CONTACT TYPE		CODE	OVERALL DIMENSIONS
		NORMALLY OPEN	NORMALLY CLOSED		
2 POSITION			N/O	JG-BD21	
			N/O	JG-BD41	
3 POSITION			2 N/O	JG-BD33	
			2 N/O	JG-BD53	

JG-BD●●

## WOBBLE STICK



DESCRIPTION		CONTACT TYPE		CODE	OVERALL DIMENSIONS
		NORMALLY OPEN	NORMALLY CLOSED		
2 position		Locked	2 N/O	JG-PA12	
		Spring Reset	2 N/O	JG-PA22	
4 Position		Locked	4 N/O	JG-PA14	
		Spring Reset	4 N/O	JG-PA24	

JG-PA●●

## CONTACTS



	CONTACT TYPE		CODE	OVERALL DIMENSIONS
	NORMALLY OPEN	NORMALLY CLOSED		
	N/O	N/C	ZB2BE101	
		N/C	ZB2BE102	





## JG-TA16 PUSHBUTTON SERIES 16MM Φ

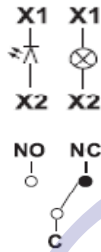
### SPECIFICATIONS

One normally open and one normally close, wiring diagram	Light connecting terminals	Operational Temperature :	-25°C to 55°C
		Operational Humidity :	45~85% RH
		Contact Resistance :	≤50 MΩ
		Insulation Resistance :	≥100 MΩ
		Withstand Voltage :	2000 VAC
		Electrical Life :	AC-15 - 0.1 mil operations 300 times/hour DC-13 - 50000 operations 300 times/hour
		Protection Level :	IP40
		Operational Travel :	1.5~2.0 MM

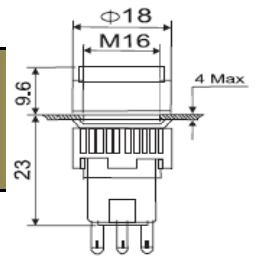
DESCRIPTION	CIRCUIT	CONTACT TYPE		CODE	OVERALL DIMENSIONS
		NORMALLY OPEN	NORMALLY CLOSE		



Illuminated Push Button circular double knife LED 24V/AC/DC 220V/AC



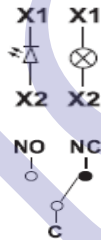
GREEN	N/O	N/C	JG-TA16-E11D
RED	N/O	N/C	
YELLOW	N/O	N/C	
BLUE	N/O	N/C	



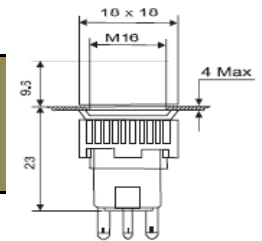
JG-TA16 ●●●●



Illuminated Push Button square double knife LED 24V/AC/DC 220V/AC



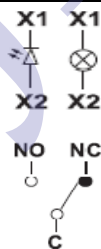
GREEN	N/O	N/C	JG-TA16-E11DF
RED	N/O	N/C	
YELLOW	N/O	N/C	
BLUE	N/O	N/C	



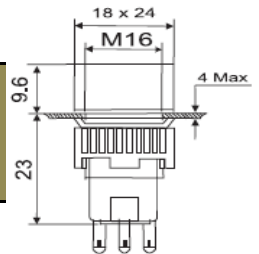
JG-TA16 ●●●●



Illuminated Push Button rectangular double knife LED 24V/AC/DC 220V/AC



GREEN	N/O	N/C	JG-TA16-E11DJ
RED	N/O	N/C	
YELLOW	N/O	N/C	
BLUE	N/O	N/C	



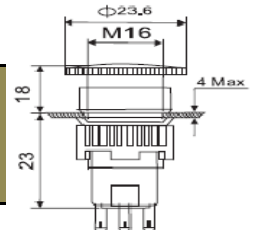
JG-TA16 ●●●●



Inner Style Auto-Locking, mushroom Emergency push button. Push to lock, Turn to release



GREEN	N/O	N/C	JG-TA16-11ZS
RED	N/O	N/C	
YELLOW	N/O	N/C	
BLUE	N/O	N/C	



JG-TA16 ●●●●



## JG-AD22 SERIES INDICATOR LAMP 22MM Φ



### SPECIFICATIONS

Operational Temperature :	-25°C to 55°C
Operational Humidity :	≤98% RH
Allowable Volatage Fluctuation :	±20%
Insulation Resistance :	≥2 MΩ
Withstand Voltage :	2500 VAC
Brightness :	≥100 cd/m2
Continous Operating Life :	≥30000H
Protection Level :	IP65
Applying Frequency	AC 50~60 Hz

DESCRIPTION	COLOR	VOLTAGE	CODE	OVERALL DIMENSIONS
-------------	-------	---------	------	--------------------

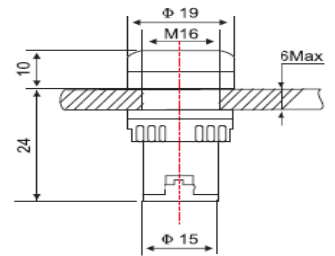


JG-AD22 ●●●●

ED Indicator  
(16 MM Φ)

GREEN	12V - AC/DC
RED	24V - AC/DC
YELLOW	110V - AC/DC
BLUE	220V - AC

JG-AD22-16D

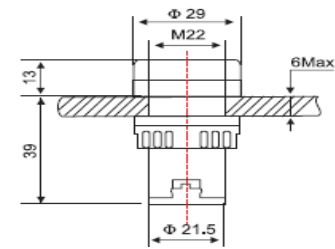


JG-AD22 ●●●●

LED Indicator

GREEN	12V - AC/DC
RED	24V - AC/DC
YELLOW	110V - AC/DC
BLUE	220V - AC

JG-TA16-22D

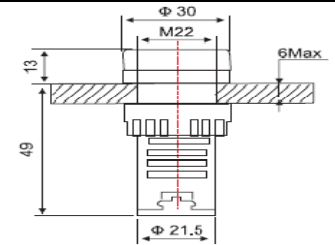


LED Indicator  
Flasher with Buzzer

RED

24V - AC/DC
220V - AC

JG-TA16-22D



## BS SERIES PUSHBUTTON SWITCH



### APPLICATION

BS power push button switch is applicable to the motor of the voltage up to 500V and the capacity upto 3KW for directly starting run and breaking, also for frequently turning on and off loaded current. Its characteristic are accurate on-off, safe and reliable and high intensity of machinery. It is widely used in machines tools, textile machinery etc., The switch is the best choice for machinery power.

### SPECIFICATIONS

Type	Poles (P)	Rated Voltage	Applicable motor capacity kW (HP)	Resistance Load (A)	Weight (Kg)
JG-BS-211B	2.3	500	220V 0.75(3)	7.5(10)	0.13
JG-BS-216B	2.3	500	220V 1.5(3)	15(20)	0.18
JG-BS-230B	2.3	500	220V 2.2(3)	30(35)	0.23

## PUSHBUTTON SWITCH-BOX

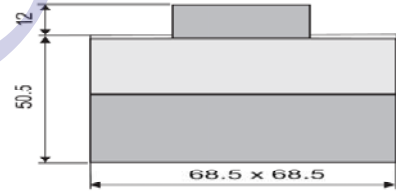
### CONTROL BOX

### DESCRIPTION

### DIMENSION



Empty Button Box for Single Hole

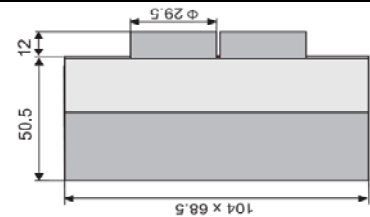


JG-XAL-B01

JG-XAL-D01



Empty Button Box for Two Holes

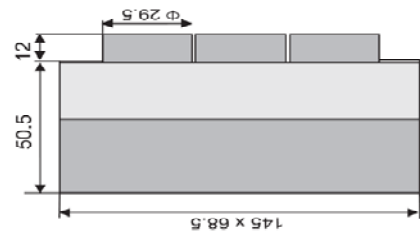


JG-XAL-B02

JG-XAL-D02



Empty Button Box for Three Holes



JG-XAL-B02

JG-XAL-D02



JG-HJ9-1

JG-HJ9-2

JG-HJ9-3

JG-HJ9-4

JG-HJ9-6



## PEDAL FOOT SWITCH

### INTRODUCTION & APPLICATIONS

The pedal/foot switch is characterized in safety, solidness and easy operation, and multi-function. After delicate designs, its guard cover base and pedal are made of high strength Aluminium alloys, and engineering plastics enhanced flame retard. It features outstandingly resistance to impact, vibration, wearing, chemical corrosion and flame. Since the tradition rotating axle drive has been improved into the plunger drive, its life has been prolonged and the high reliability. It is equipped with micro switch inside, with the contact form of 1a+1b. the micro switch can also be increased conveniently to the contact form of 2a+2b. the stable contact resistance has ensured very good performance under controlled logical current signals. The product surface is attached with eye-catching warning labels with a view to ensuring safe-use. The product is widely used in pressing machine. Punching equipments, benders, Spot welders. Various automatic mechanical equipments, medical instruments and other field.



JG-FS1



JG-FS1(METAL)

CODE - JG-FS1/JG-FS1(METAL)

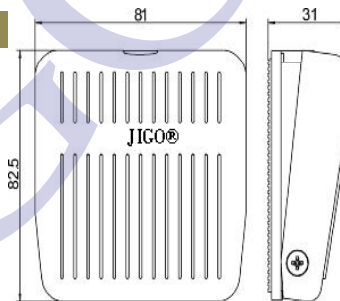
### SPECIFICATIONS

- Black painted steel housing with nonskid base pad and foot treadle pad
- Structure Form : 1NO + 1NC
- Switch rating : 10A 250V AC
- Operating temperature range : -20°C to +80°C
- Degree of protection : IP20 for standard version

CODE - JG-FS2

### SPECIFICATIONS

- High strength glass fiber reinforced plastic body
- Structure Form : 1NO + 1NC
- Switch rating : 10A 250V AC
- Operating temperature range : -20°C to +80°C
- Degree of protection : IP20 for standard version

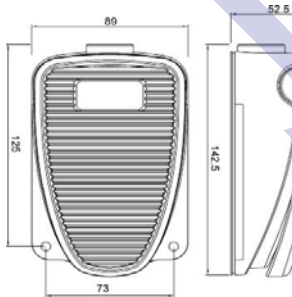


JG-FS2

CODE - JG-FS3



JG-FS3



### SPECIFICATIONS

- Robust Die-Cast Aluminium Body
- Structure Form : 1NO + 1NC
- Switch rating : 10A 250V AC
- Operating temperature range : -20°C to +80°C
- Degree of protection : IP20 for standard version

CODE - JG-SFMP1

### SPECIFICATIONS

- Robust Die-Cast Aluminium Body
- Structure Form : 1NO + 1NC
- Switch rating : 10A 250V AC
- Operating temperature range : -20°C to +80°C
- Degree of protection : IP20 for standard version



JG-SFMP1



## FOR CONTROL OF SINGLE SPEED MOTOR



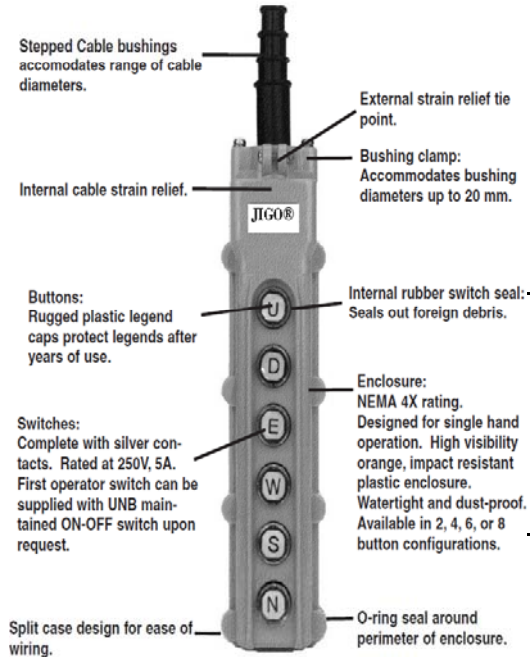
### SPECIFICATIONS

Shock Resistance :	100 g conforming to IEC 68-2-27
Electric Shock Protection :	Class II conforming to IEC 536 and NFC 20-030
Degree Of Protection :	IP 65 conforming to IEC 539: IP 657 conforming to NFC 20-010
Mechanical Durability :	1 million
Enclosure :	Double insulated polypropylene, coloured yellow throughout
Thermal Current (Ithe) :	10
Rated Impulse Withstand Voltage (u imp) :	6 conforming to IEC 947-1
Positive Operation :	Mushroom Head Pushbutton: N/C contact with positive opening operation to IEC 947-5-1 Section 3
Contact Operation :	N/C of N/O slow break
Terminal Referencing :	Conforming to CENELEC EN 50013
Short-circuit Protection :	10 A cartridge fuse type gG (gl)
Cabling :	Screw and captive cable clamp terminals. Capacity: min 1x0.5, max with or without cable end: 2x1.5 or 1x2.5 mm.

FUNCTIONS	NO. OF OPERATORS	CONTACT BLOCKS & SCHEME PER DIRECTION FOR	CODE
<p>2 Mechanically interlocked + 1 trigger action latching "Emergency Stop" <math>\Phi</math> 30mm operator ZA2-BS44</p>		<p>ZB2-BE102</p>	JG-XAC-A2713
<p>4 Mechanically interlocked between pairs + 1 trigger action latching "Emergency Stop" <math>\Phi</math> 40mm operator ZA2-BS54</p>		<p>ZB2-BE102</p>	JG-XAC-A4713
<p>6 Mechanically interlocked between pairs + 1 trigger action latching "Emergency Stop" <math>\Phi</math> 40mm operator ZA2-BS44</p>		<p>ZB2-BE102</p>	JG-XAC-A6713
<p>6 Mechanically interlocked between pairs + 1 trigger action latching "Emergency Stop" <math>\Phi</math> 40mm operator ZA2-BS44</p>		<p>ZB2-BE102</p>	JG-XAC-A8713



## HOIST RAINPROOF PUSHBUTTON SWITCH



### APPLICATION

COB pushbutton switch is suitable in circuit of AC 50 or 60 Hz, voltage upto 500V, rated current upto 5A for controlling start and stop of remote motor. It is widely used in machinery tool, textile machinery etc.

### SPECIFICATIONS

Degree of Protection :	IP65
Material/Color :	Case : Shockproof ABC Resin, Orange Color Case-tightening screws : Stainless (± screws) Cable Brushing : Synthetic Rubber/ Black
Vibration Proof :	Operational Tolerance : 10 to 55 Hz, Displacement : 1.0mm
Shock Proof :	Durability : 500m/s <sup>2</sup> Operational Tolerance : 100m/s <sup>2</sup>
Connected Terminal :	M4 screws (Pressure Terminal Type)
Operating Temperature :	-15°C to 40°C
Installation Process :	Must be installed with the cable slot uppermost using appropriate cable cabling

### CONTROL SWITCH

### DESCRIPTION

### TYPE

### DIMENSION

	2 way station - up, down (element NO type)	COB61	
	4 way station - on, off, left, right. 4 way station - up, down, left, right	COB61A COB62	
	6 way station - on, off, up, down, left, right. (element 1NC 5NO type) 6 way station - up, down, left, right, reverse, forward.	COB62A COB63	
	8 way station - on, off, up, down, left, right, reverse, forward. (element 1NC 7NO type) 8 way station - up, down, left, right, reverse, forward, quick, slow (element NO type)	COB63A COB64	
	10 way station - on, off, up, down, left, right, reverse, forward, quick, slow.	COB64A	



## GENERAL PURPOSE RELAY

### APPLICATIONS

General Purpose Relay is widely suitable for DC or AC circuit switching in various automation devices process control and communication devices, process control and communication equipments It is characteristic of stable performance, high reliability, capable of making and breaking relatively large load current easy in maintenance and inspection as well as long service life



JG-MY2



JG-MY3

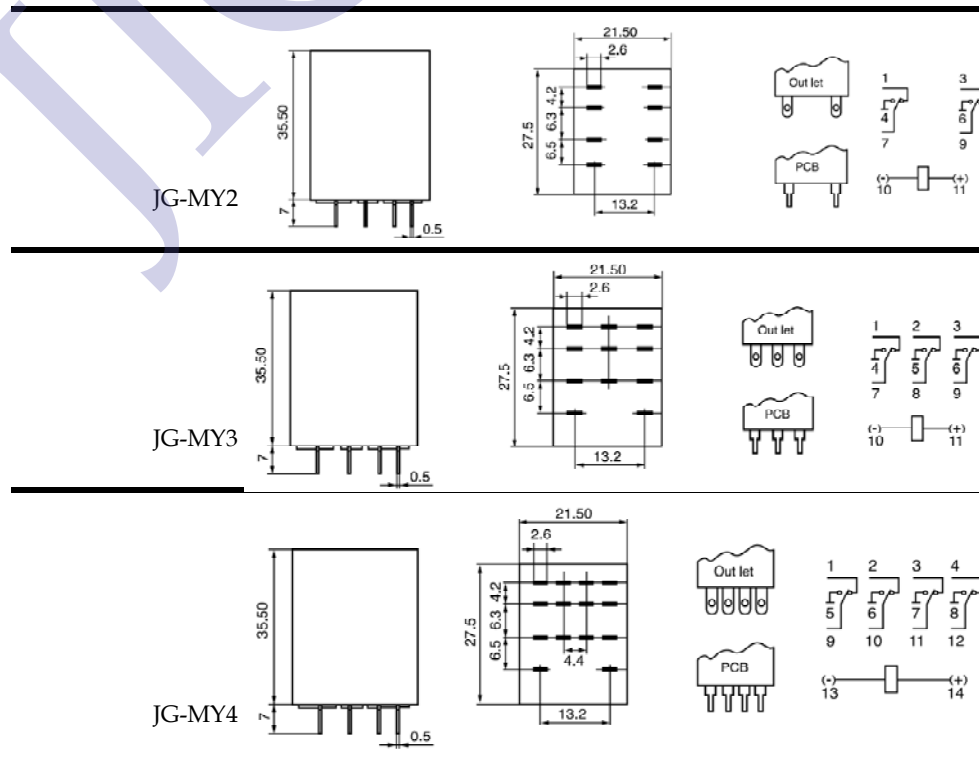


JG-MY4

### SPECIFICATIONS

TECHNICAL DETAILS		JG-MY2	JG-MY3	JG-MY4
Terminal layout		2Z	3Z	4Z
Contact capacity	AC	5A 250V	5A 250V	3A 250V
	DC	5A 30V	5A 30V	3A 30V
Contact resistance (mΩ)		≤50mΩ	≤50mΩ	≤50mΩ
Insulation resistance (MΩ)		≥100MΩ	≥100MΩ	≥100MΩ
Dielectric strength	BOC	1000VAC	1000VAC	1000VAC
	BCC	1500VAC	1500VAC	1500VAC
Coil nominal voltage	AC	6 to 240V	6 to 240V	6 to 240V
	DC	6 to 220V	6 to 220V	6 to 220V
Coil nominal power	AC	0.9VA to 1.2VA	0.9VA to 1.2VA	0.9VA to 1.2VA
	DC	≤0.9W	≤0.9W	≤0.9W
Electrical life(OPS)		10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>
Mechanical life(OPS)		10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>
Operating temperature(°C)		-40°C to 60°C	-40°C to 60°C	-40°C to 60°C
Weight(g)		≤35	≤35	≤35
Mounting methods		Printed-circuit board, Outlet.	Printed-circuit board, Outlet.	Printed-circuit board, Outlet.

### DIMENSION



## GENERAL PURPOSE RELAY



JG-LY2



JG-LY4

### SPECIFICATIONS

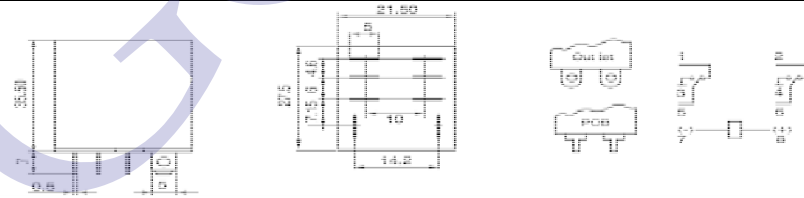
TECHNICAL DETAILS		JG-LY2	JG-LY4	JG-MK2	JG-MK3
Terminal layout		2Z	2Z	2Z	3Z
Contact capacity	AC	10A 250V	10A 250V	10A 250V	10A 250V
	DC	10A 30V	10A 30V	10A 30V	10A 30V
Contact resistance (mΩ)		≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ
Insulation resistance (MΩ)		≥100MΩ	≥500MΩ	≥500MΩ	≥500MΩ
Dielectric strength	BOC	1000VAC	1500VAC	1500VAC	1500VAC
	BCC	1500VAC	1500VAC	1500VAC	1500VAC
Coil nominal voltage	AC	6 to 240V	6 to 380V	6 to 380V	6 to 380V
	DC	6 to 220V	6 to 220V	6 to 220V	6 to 220V
Coil nominal power	AC	0.9VA to 1.2VA	≤2.8 VA	≤2.8 VA	≤2.8 VA
	DC	≤0.9W	≤1.6W	≤1.6W	≤1.6W
Electrical life(OPS)		10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>
Mechanical life(OPS)		10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>
Operating temperature(°C)		-40°C to 60°C	-40°C to 60°C	-40°C to 60°C	-40°C to 60°C
Weight(g)		≤35	≤80	≤80	≤80
Mounting methods		Printed-circuit board, Flange, Outlet.	Outlet	Outlet	Outlet

### DIMENSION

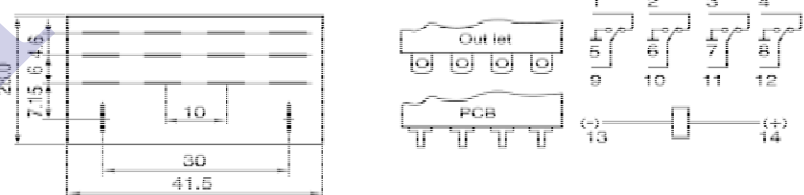


JG-MK2

JG-LY2

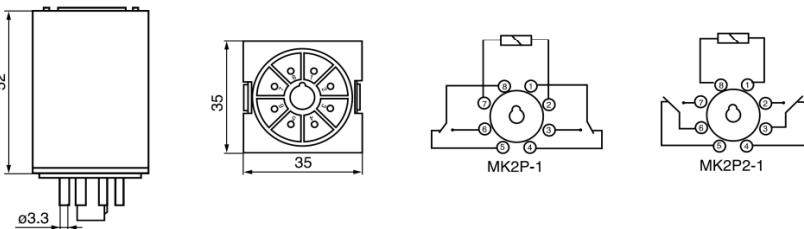


JG-LY4

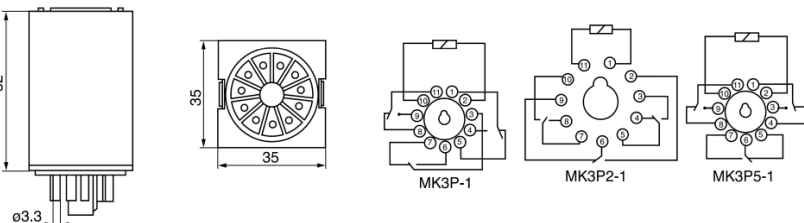


JG-MK3

JG-MK2



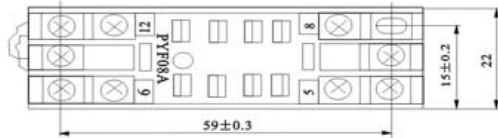
JG-MK3



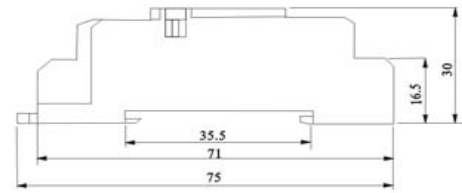


## RELAY SOCKETS

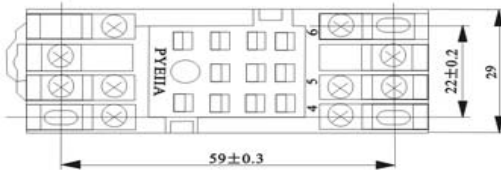
JG-PYF08A



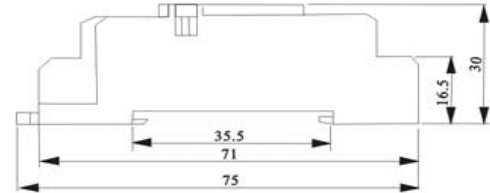
Suitable for JG-MY2 Relay



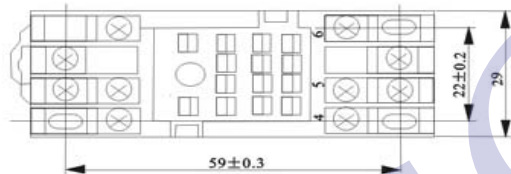
JG-PYF11A



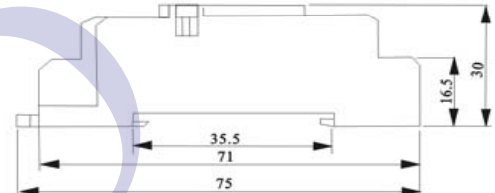
Suitable for JG-MY3 Relay



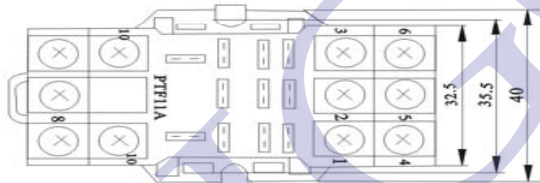
JG-PYF14A



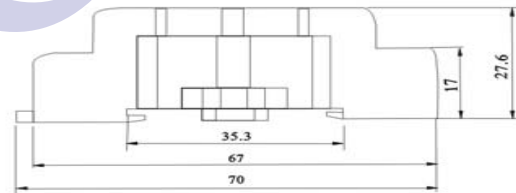
Suitable for JG-MY4 Relay



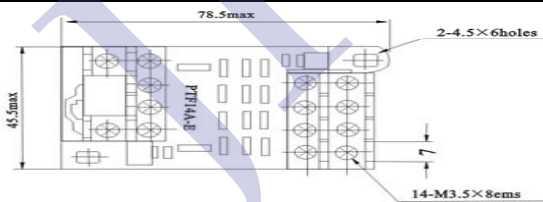
JG-PTF11A



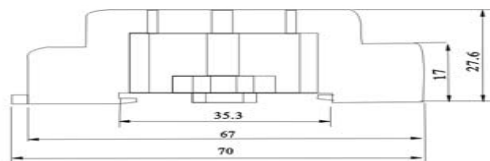
Suitable for JG-LY2 Relay



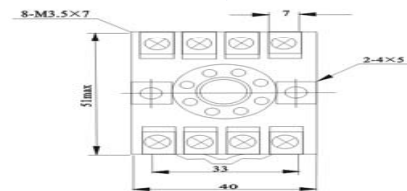
JG-PTF14A



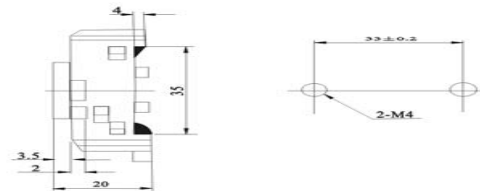
Suitable for JG-LY3 Relay



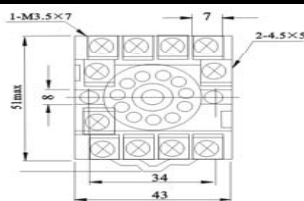
JG-PF083A



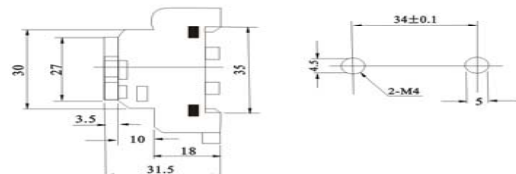
Suitable for JG-MK2 Relay



JG-PF113A



Suitable for JG-MK3 Relay



## MULTI RANGE TIMER

### APPLICATIONS

These relays are widely used in machines and equipment needing automatic control of high precision and reliability.

### SPECIFICATIONS

TECHNICAL DETAILS		JG-ST3P	JG-H3BA		JG-H3CR
Classification		Multi Range Timer	Multi Range Timer		Multi Range Timer
Dimension		55H x 40.5W x 57.5D	48H x 48W x 93.5D		48H x 48W x 81.6D
Mounting & Socket	Surface(-N)	PF-083A(E)	PF113A(E)	PF083A PS-08	PF-083A(E)
	Flush(-Y)	US-08 P3G-08	US-11	US-08 P3G-08	US-08 P3G-08
Full Timing Range		A: 0.05-0.5s/5s/30s/3min B: 0.1-10s/60s/6min C: 0.5-5s/50s/5min/30min D: 1~10s/100s/100mn/60min	0.1SEC~100HRS		0.5SEC~300HRS
Rated Voltage (V)		AC: 24,48,110,220 (50/60Hz) DC: 24,48	24 to 240 DC/AC AC: 24,48,110,220 DC: 12,24,48		AC: 24,110~240(50/60Hz) DC: 12,24~240(50/60Hz)
Indicator Operating		ON-UP Operating	Time Operating Flicker		Time Operating Flicker
O/P Contact	Model	ST3PA	H3BA-8		H3CR-A    H3CR-A8
	Time Limit 1C				
	Time Limit 2C	5A	5A		5A(AC250)    5A(AC250)
	Instantaneous 1C				
Life	Mechanical	$5 \times 10^7$ Times	$10^7$ Times		$10^7$ Times
	Electrical	$10^5$ Times	$10^5$ Times		$10^5$ Times
Accuracy	Repeat Error	±2% max	±2% max		±2% max
	Setting Error	±5% max	±5% max		±5% max
	Voltage Error	±5% max	±5% max		±5% max
	Temp Error	±2% max	±2% max		±2% max
Reset Time		0.5 sec max	0.5 sec max		0.5 sec max
Consumed Power		3VA	100~240VAC:10VA 12VDC, 24~240VDC:1.5W		100~240VAC:10VA 12VDC, 24~240VDC:1.5W
Ambient temperature		-10°C~+55°C	-10°C~+55°C		-10°C~+55°C
Ambient Humidity		35~85% RH	35~85% RH		35~85% RH
Weight		100g	100g		100g



JG-ST3P



JG-H3BA



JG-H3CR



## MULTI RANGE TIMER

### SPECIFICATIONS

TECHNICAL DETAILS		JG-H3Y	
Classification		Timer	
Dimension		28H x 21W x 52.6D	
Mounting & Socket	Surface(-N)	PYF08A(E)	PYF14A(E)
	Flush(-Y)	With Y-20 adapter	
Full Timing Range		SEC: 1,3,5,10,30,60,120 MIN: 3,5,10,30,60 HR: 3	
Rated Voltage (V)		AC: 12,24,110,220,240 (50/60Hz) DC: 12,24	
Indicator Operating		Power, up Operating	
O/P Contact	Model	H3Y-2	H3Y-4
	Time Limit 1C		
	Time Limit 2C	5A	3A(4C)
	Instantaneous 1C		
Life	Mechanical	5X10 <sup>6</sup> Times	
	Electrical	10 <sup>5</sup> Times	
Accuracy	Repeat Error	±3% max	
	Setting Error	--	
	Voltage Error	±2% max	
	Temp Error	±5% max	
Reset Time		0.2 sec max	
Consumed Power		3 VA	
Ambient temperature		-10°C~+55°C	
Ambient Humidity		48~85% RH	
Weight		45g	

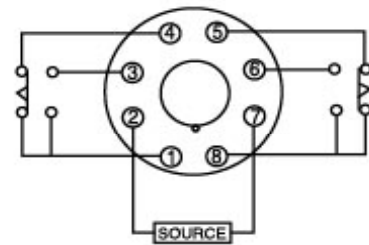
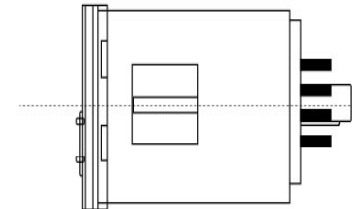
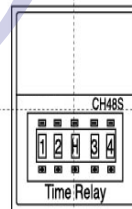


JG-H3Y

## TIMER

### SPECIFICATIONS

TECHNICAL DETAILS		JG-DH48S-2Z
Classification		Time Relay
Rated Voltage (V)		DC: 12~48V AC: 12~380 (50Hz)
Power Expend		DC: 1.0W AC: 1.0VA
Control output		5A 220V AC
Insulation Resistance		DC500V 100mΩ
Dielectric Strength		BCC1500VAC BOC1000VAC
Operating Temperature		-10°C~+55°C
Humidity		35%~85% RH
Life		Mech:10 <sup>7</sup> Elec:10 <sup>3</sup>
Weight		100g



DH48S-2Z



## HOURLY METER

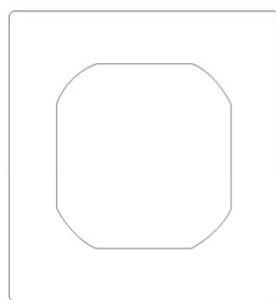
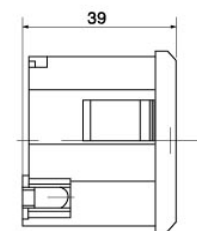
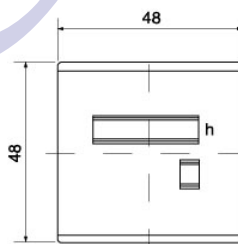
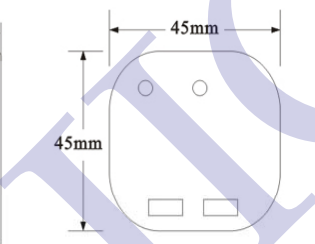
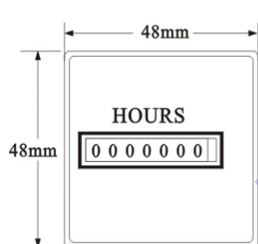


This product is suitable for usage of House, Industry, Air Condition, etc. Time setting range available from 0 to 99,999,99 hours

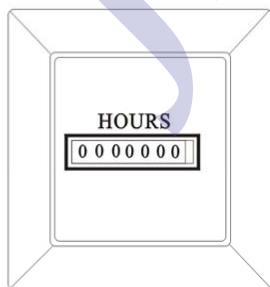
This hour meter is mechanical type. Widely applied in each Kind of machine, equipment and device (such as environmental protection equipment generator etc). Used for to demonstrate the machine, the equipment, the device accumulation operating time. It is mechanical type accumulation, the longest time for accumulation time can be 11 years. It still can maintain the data after the power cut.

TECHNICAL DETAILS	JG-HM1
Supply Voltage	AC110V, 220V/50Hz
Dimension	48 x 48 x 40(mm)
Timing range	0~99, 999.99 Hours
Net Weight	50g

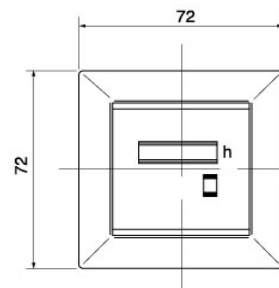
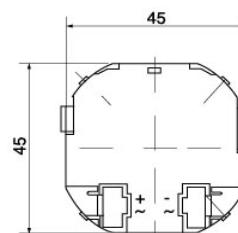
TECHNICAL DETAILS	JG-BZ142
Supply Voltage	AC 24~450 V/50Hz
Dimension	48 x 48 x 40(mm)
Timing range	0~99, 999.99 Hours
Net Weight	50g



H-C



Hour meter HM-1 with H-C



## DIGITAL TEMPERATURE CONTROLLER

### APPLICATIONS

Temperature Controller adopts advanced middle and big scale integrate circuit with unique nonlinear modification technology, the set mode can be classified as stimulant knob set and digital dialing switch. Compared with traditional moving coil meter and electric adjuster, it owns advantages of high precision display, good temperature controlling performance, good shock resistance, good reliability, clear reading, no parallax, far distance observation available, small volume, simple installation. According to adjusting mode, it can be classified into two digits, three digits, time proportion type, controllable silicon continuous adjusting type, PIC adjusting etc, and it can also be enclosed with overrun alarm output function according to customer requirement. It is widely used for temperature check and control in range of -200~1600°C on plastic machine, package machine, food machine, textile machine and metallurgy,refrigeration,chemical industry,medical treatment etc. When it is equipped with relative sensor, it can also be used for display and adjusting of physical quantity like pressure, flux, liquid level etc.

### SPECIFICATIONS

TECHNICAL DETAILS	JG-XMTG	JG-XMTD	JG-XMTA
Input signal	Thermocouple:E,K	Thermocouple:E,K	Thermocouple:E,K
	Thermal resistance:Cu50,Pt100	Thermal resistance:Cu50,Pt100	Thermal resistance:Cu50,Pt100
Accuracy	±1.0 % F.S±1 word	±1.0 % F.S±1 word	±1.0 % F.S±1 word
Control way	Two phase or time rate adjustment	Two phase or time rate adjustment	Two phase or time rate adjustment
Control output	Relay	Relay	Relay
Alarm function	Having alarm function	Having alarm function	Having alarm function
Work power	AC110V220V380V 50/60Hz	AC110V220V380V 50/60Hz	AC110V220V380V 50/60Hz
Out dimension	48 X 48 X 120mm	72 X 72 X 110mm	96 X 96 X 150mm
width×height×depth			
Install dimension	45 <sup>+1</sup> X 45 <sup>+1</sup> mm	68 <sup>+1</sup> X 68 <sup>+1</sup> mm	92 <sup>+1</sup> X 92 <sup>+1</sup> mm



JG-XMTG



JG-XMTD



JG-XMTA



## PID DIGITAL TEMPERATURE CONTROLLER

### APPLICATIONS

A proportional-integral-derivative controller (PID controller) is a generic control loop feedback mechanism (controller) widely used in industrial control systems - a PID is the most commonly used feedback controller. A PID controller calculates an "error" value as the difference between a measured process variable and a desired setpoint. The controller attempts to minimize the error by adjusting the process control inputs.



JG-XMTA



JG-XMTD

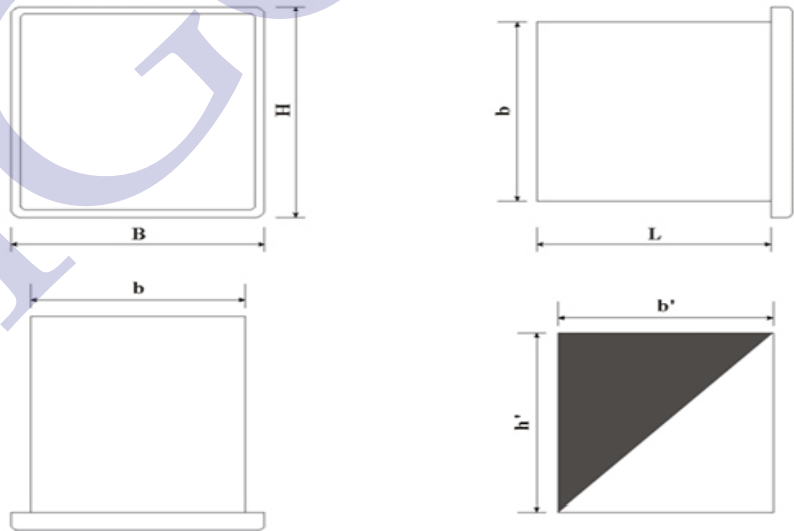


JG-XMTG

### SPECIFICATIONS

TECHNICAL DETAILS	JG-XMTG
Input signal	Thermocouple:E,K
	Thermal resistance:Cu50,Pt100
	Standard current: 0-10mA 4-20mA
Accuracy	±1.0 % F.S±1 word
Control way	PID Control, States Control
Control output	Relay contact point: AC250V 3A (resistance) Logical voltage DC:0/5V Start pulse over zero: optical couple control silicon output 1A 600V
Alarm function	High Limit Alarm, Lower Limit Alarm
Work power	AC220V±10% 50/60Hz

### 4. Panel exterior and punching hole size



Unit:mm

Code	Panel Size (H*B)	Shell Body Size (H*B*L)	Punching Hole Size (H*B')
JG-XMTA	96*96	90*90*70	(90+1)*(90+1)
JG-XMTD	72*72	66*66*92	(66+1)*(66+1)
JG-XMTG	48*48	44*44*77	(44+1)*(44+1)



## SOLID STATE RELAY

### APPLICATIONS

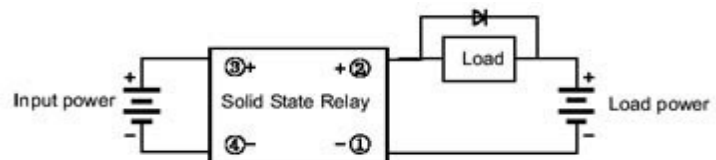
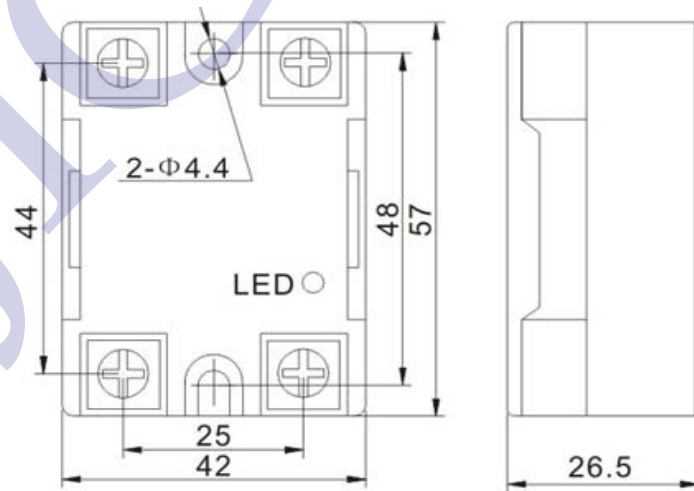
A solid state relay (SSR) is an electronic switching device in which a small control signal controls a larger load current or voltage. It comprises a voltage or current sensor which responds to an appropriate input (control signal), a solid-state electronic switching device of some kind which switches power to the load circuitry either on or off, and some coupling mechanism to enable the control signal to activate this switch without mechanical parts. The relay may be designed to switch either AC or DC to the load. It is functionally equivalent to an electromechanical relay, but has no moving parts.

### SPECIFICATIONS

TECHNICAL DETAILS	JG-ZG3NC-3□A	JG-ZG3NC-3□B
Load Current :	10A, 15A, 20A, 25A, 30A, 40A, 50A, 60A, 75A, 80A, 90A, 100A, 120A.	
Load Voltage :	480 VAC	480 VAC
Control Voltage :	3-32 VDC	90-250 VAC
Control Current :	DC 3-25mA	AC 12mA
On Voltage :	≤ 1.5V	≤ 1.5V
Off Leakage Current :	≤ 2mA	≤ 2mA
On-Off Time :	≤ 10 ms	≤ 10 ms
Dielectric Strength :	2500 VAC	2500 VAC
Insulation Resisitance :	1000 mΩ/500 VAC	1000 mΩ/500 VAC
Ambient Temperature :	-30°C~+75°C	-30°C~+75°C
Mounting Methods :	Fixed Bolt	Fixed Bolt
The Work Instructions :	LED	LED
Weight :	90g/135g(> 40A)	90g/135g(> 40A)



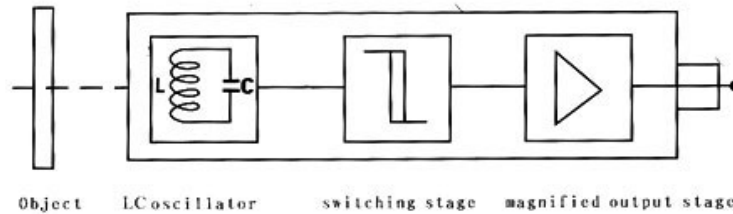
ZG3NC-340B



Input and output. Polarity must be observed  
Inductive loads must be diode suppressed



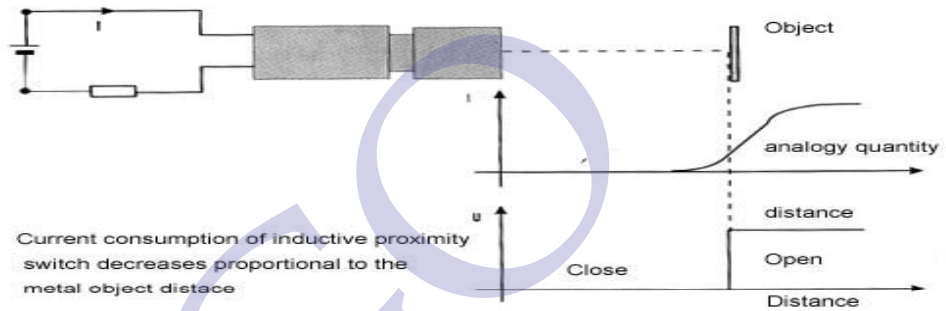
## INDUCTANCE TYPE GENERAL PROXIMITY SWITCH



### APPLICATION & WORKING PRINCIPLE

Inductive Proximity Switches are used to sense position of metals.

Inductive proximity switch is composed of three parts :oscillator,switch circuit and magnified output circuit The oscillator will generate an alternating electric field.When the metal object approaches this electric field and reaches the induction distance,thirlpool will generate in metal object,resulting in attenuation of vibration and then stop.the changeof vibration and stop of oscillator is treated by behind stage magnified circuit and converted to switching sign,triggering driving control for non-contact detection.

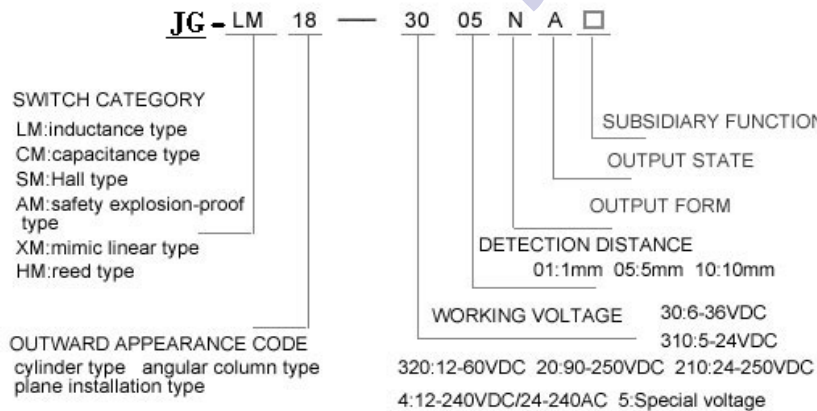


### FEATURES

- Compact volume
- High precision of repeated location
- Diversified exterior structures
- Good performance of anti-interference.
- Many output forms
- High on-off frequency.
- Wide voltage range
- Dust proof,vibration proof,water proof and oil proof.
- With shor-circuit protection and inverted connecting protection.
- Long service life



### MODEL EXPLANATION

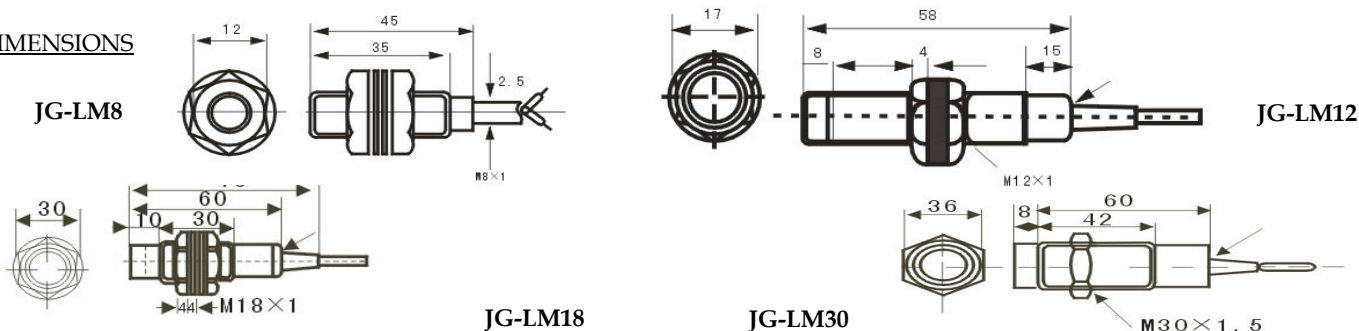




## INDUCTANCE TYPE GENERAL PROXIMITY SWITCH

SPECIFICATIONS			JG-LM8	JG-LM12	JG-LM18	JG-LM30	
Flush Type	Detection distance		1mm	2mm	5mm	10mm	
	DC 6-36VDC	NPN	NO	LM8-3001NA	LM12-3002NA	LM18-3005NA	LM30-3010NA
			NC	LM8-3001NB	LM12-3002NB	LM18-3005NB	LM30-3010NB
			NO+NC		LM12-3002NC	LM18-3005NC	LM30-3010NC
		PNP	NO	LM8-3001PA	LM12-3002PA	LM18-3005PA	LM30-3010PA
			NC	LM8-3001PB	LM12-3002PB	LM18-3005PB	LM30-3010PB
			NO+NC		LM12-3002PC	LM18-3005PC	LM30-3010PC
	AC 90~250 VAC	SCR Control-lable silicon	NO		LM12-2002A	LM18-2005A	LM30-2010A
			NC		LM12-2002B	LM18-2005B	LM30-2010B
			NO+NC				LM30-2010C
Relay output							
Non-Flush Type	Detection distance		1.5mm	4mm	8mm	15mm	
	DC 6-36VDC	NPN	NO	LM8-3002NA	LM12-3004NA	LM18-3008NA	LM30-3015NA
			NC	LM8-3002NB	LM12-3004NB	LM18-3008NB	LM30-3015NB
			NO+NC				
		PNP	NO	LM8-3002PA	LM12-3004PA	LM18-3008PA	LM30-3015PA
			NC	LM8-3002PB	LM12-3004PB	LM18-3008PB	LM30-3015PB
			NO+NC				
	AC 90~250 VAC	SCR Control-lable silicon	NO				
			NC				
			NO+NC				
Relay output							
Control output	DC		150mA	200mA	200mA	200mA	
	SCR/RELAY			300mA	300mA	300mA/1A	
Output voltage drop DC/AC			DC < 3V, AC < 10V				
Consumption current			DC < 15mA, AC < 10mA				
Standard detected object			6×6×1(A3 iron)	15×15×1(A3 iron)	18×18×1(A3 iron)	30×30×1(A3 iron)	
Repeated precision			0.01	0.01	0.02	0.05	
DC/AC Response frequency			500Hz/25Hz	400Hz/25Hz	300Hz/25Hz	200Hz/25Hz	
Working environment temperatuer			-25°C ~+75°C	-25°C ~+75°C	-25°C ~+75°C	-25°C ~+75°C	
Insulation resistance			50MΩ				
Shell material			Metal				
Protection grade			IP67				
Alternative model at home and abroad			E2E-X1R5	E2E-X5	LJ18A4-8	E2E-X18M	

### DIMENSIONS



# PROXIMITY SWITCHES AND SENSORS

## INDUCTANCE TYPE GENERAL PROXIMITY SWITCH

### SPECIFICATIONS

			JG-LMF4	JG-LMF11	
Flush Type	Detection distance		5mm	5mm	
	DC 6-36VDC	NPN	NO	LMF4-3005NA	LMF11-3005NA
			NC	LMF4-3005NB	LMF11-3005NB
			NO+NC	LMF4-3005NC	LMF11-3005NC
		PNP	NO	LMF4-3005PA	LMF11-3005PA
			NC	LMF4-3005PB	LMF11-3005PB
			NO+NC	LMF4-3005PC	LMF11-3005PC
	AC 90~250 VAC	Two wire system	NO	LMF4-3005LA	LMF11-3005LA
			NC	LMF4-3005LB	LMF11-3005LB
		SCR Control-lable silicon	NO		
NC					
Relay output					
Control output	DC		200mA	200mA	
	SCR/RELAY				
Output voltage drop DC/AC			DC < 3V, AC < 10V		
Consumption current			DC < 15mA, AC < 10mA		
Standard detected object			20x20x1 (A3 iron)		
Repeated precision			0.03	0.05	
DC/AC Response frequency			300HZ	300HZ	
Working environment temperatuer			-25°C ~ +75°C		
Insulation resistance			50MΩ		
Shell material			Metal	Plastic	
Protection grade			IP67		
Alternative model at home and abroad			PS05-N, PS05-P	PL-05N PL-05P	

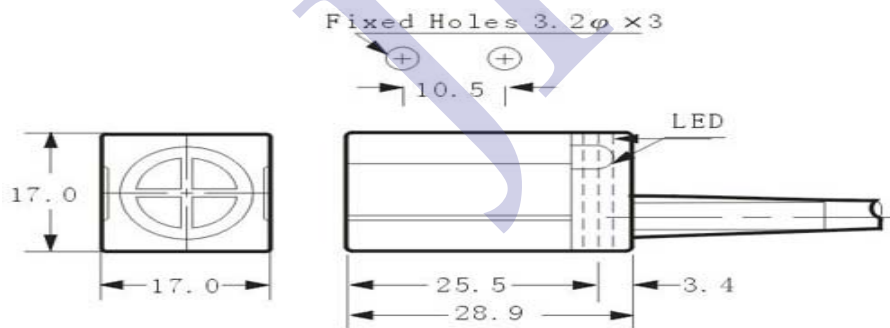


JG-LMF4

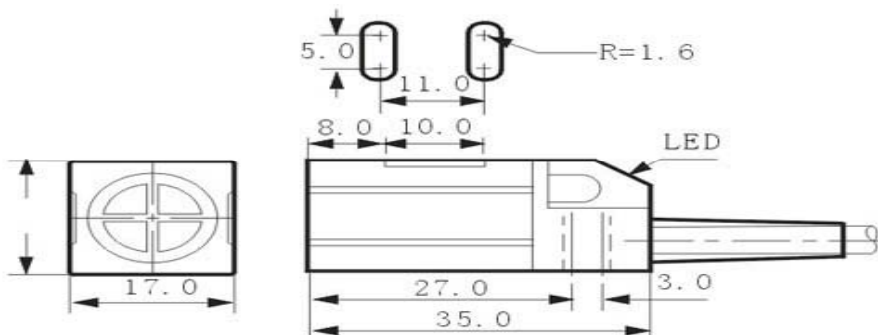


JG-LMF11

### DIMENSIONS



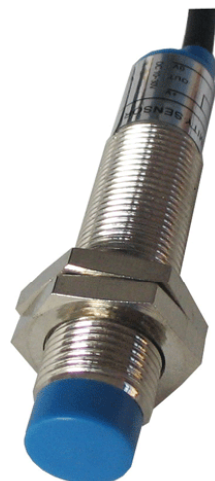
JG-LMF4



JG-LMF11



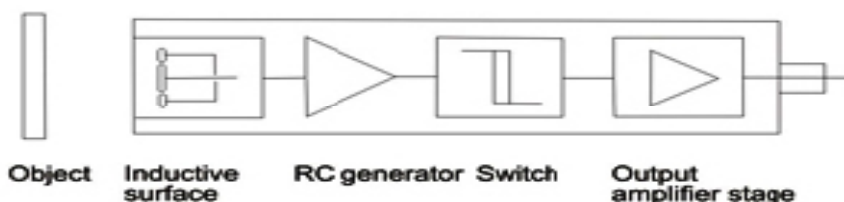
## CAPACITANCE TYPE GENERAL PROXIMITY SWITCH



### APPLICATIONS

Capacitive sensors are used in machine systems and equipment for no-contact motion surveillance. They consist of two coaxial electrodes, a condenser and RC generator. This type of sensor reacts to both metal and nonmetal objects, as the gearing distance for non-metal objects depends on their dielectric constants. They allow gearing distance adjustment for non-magnetic conductive materials. they are developed on the base of PNP and NPN transition. they have small dimensions and it features a metal cylinder shell resistance to vibrations and a plastic lid which is oil & water resistant.

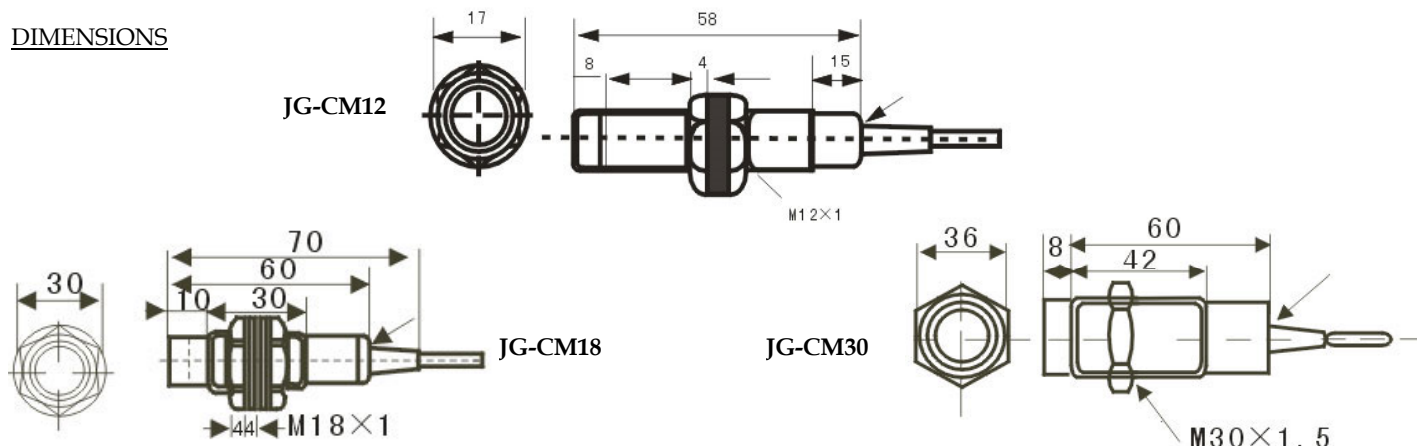
### General scheme of a capacitive transducer



### SPECIFICATIONS

Non-Flush			JG-CM12	JG-CM18	JG-CM30
Detection distance			4mm	8mm	15mm
DC 6-	NPN	NO	CM12-3004NA	CM18-3008NA	CM30-3015NA
		NC	CM12-3004NB	CM18-3008NB	CM30-3015NB
		NO+NC		CM18-3008NC	CM30-3015NC
	PNP	NO	CM12-3004PA	CM18-3008PA	CM30-3015PA
		NC	CM12-3004PB	CM18-3008PB	CM30-3015PB
		NO+NC		CM18-3008PC	CM30-3015PC
AC 90~ 250	SCR Control-lable silicon	NO		CM18-2008A	CM30-2015A
		NC		CM18-2008B	CM30-2015B
		NO+NC			
Output voltage drop DC/AC			DC < 3V, AC < 7V		
Consumption current			DC12V: 8mA, 24V: 15mA, DC < 15mA, AC < 10mA		
Output Current			DC: 200mA, AC: 300mA		
Detectable Object			Conductore & Dielectric Body		
DC/AC Response frequency			50Hz/10Hz		
Working environment temperatuer			-25°C ~ +75°C		
Insulation resistance			50MΩ		
Shell material			Metal		
Protection grade			IP54		
Alternative model at home and abroad				LJ18A3	E2E-X15M

### DIMENSIONS



## PHOTOELECTRIC SWITCH

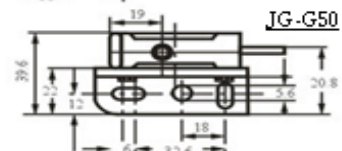
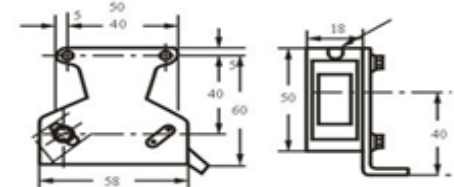
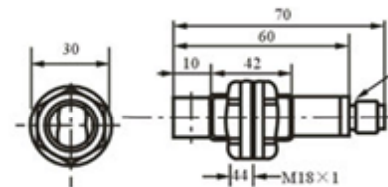
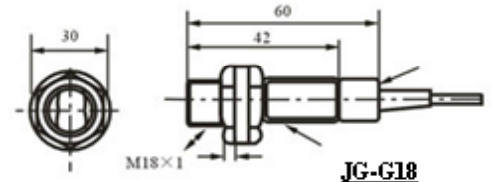
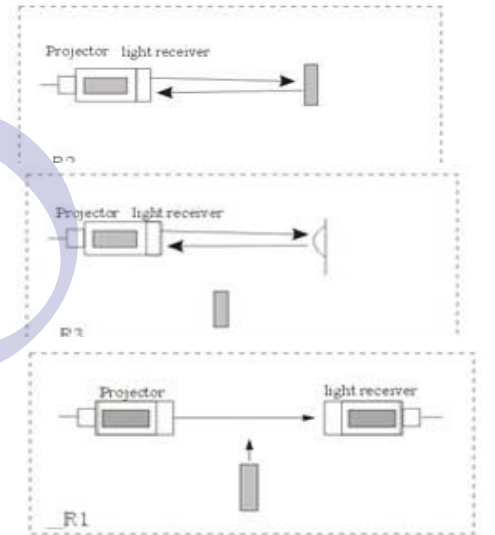
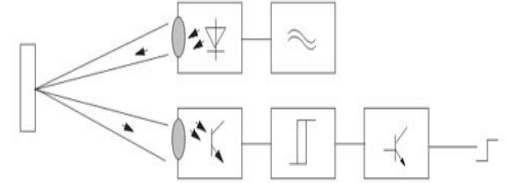


### APPLICATIONS

The principle of photoswitch: the projector will judge and react on the basis of light beam from the projector which is interdicted by object or emitted partly. The beam sensors are particularly used for position sensing and counting of non metallic objects. It is also used for Bottle sensing, Level sensing, Height sensing Plastic film sensing Edge detection of paper or sheet metal etc.

### SPECIFICATIONS

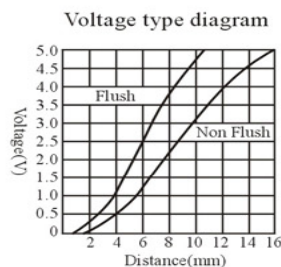
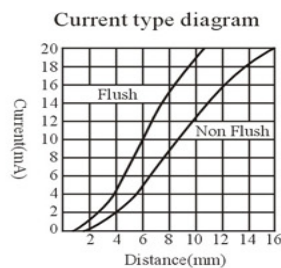
			JG-G18	JG-G50	
<b>Diffuse type</b>	Detection distance		0-30cm	30cm 50cm	
	10-30VDC	NPN	NO	G18-3A30NA	G50-3A30NA
			NC	G18-3A30NB	G50-3A30NB
			NO+NC	G18-3A30NC	G50-3A30NC
		PNP	NO	G18-3A30PA	G50-3A30PA
			NC	G18-3A30PB	G50-3A30PB
			NO+NC	G18-3A30PC	G50-3A30PC
	90-250VAC	SCR Control-lable silicon	NO	G18-2A30LA	G50-2A30LA
			NC	G18-2A30LB	G50-2A30LB
		Relay output		G50-2A30JC	
<b>Retroreflec tive</b>	Detection distance		2m	4m	
	10-30VDC	NPN	NO	G18-3B2NA	G50-3B4NA
			NC	G18-3B2NB	G50-3B4NB
			NO+NC	G18-3B2NC	G50-3B4NC
		PNP	NO	G18-3B2PA	G50-3B4PA
			NC	G18-3B2PB	G50-3B4PB
			NO+NC	G18-3B2PC	G50-3B4PC
	90-250VAC	SCR Control-lable silicon	NO	G18-2B2LA	G50-2B4LA
			NC	G18-2B2LB	G50-2B4LB
		Relay output		G50-2B4JC	
<b>Trough beam</b>	Detection distance		5m	5m	
	10-30VDC	NPN	NO	G18-3C5NA	G50-3C5NA
			NC	G18-3C5NB	G50-3C5NB
			NO+NC	G18-3C5NC	G50-3C5NC
		PNP	NO	G18-3C5PA	G50-3C5PA
			NC	G18-3C5PB	G50-3C5PB
			NO+NC	G18-3C5PC	G50-3C5PC
	90-250VAC	SCR Control-lable silicon	NO	G18-2C5LA	G50-2C5LA
			NC	G18-2C5LB	G50-2C5LB
		Relay output		G50-2C5JC	
DC/SCR Control output			DC:200mA AC:300mA		
DC/AC Consumption current			DC < 15mA AC < 10mA		
DC/AC Response time			DC < 2ms AC < 20ms		
Directional angle			3°-10°		
Detected object			Transparent or opaque body		
Working environment temperature			-25°C ~+55°C		
Intensity of illumination of working environment			Sunlight under 10kLX incandescent lamp under 3kLX		
Shell material			Plastic		
Protection grade			IP66		



## LINEAR SENSOR



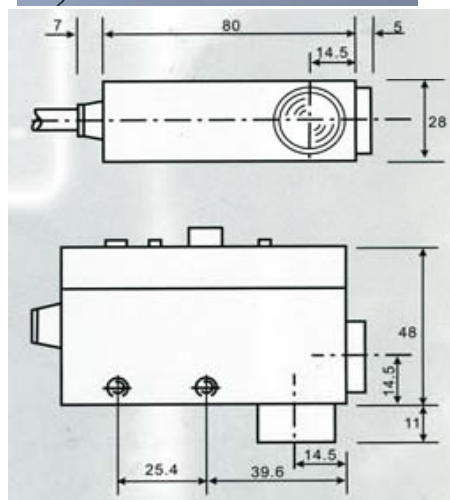
JG-XMF37



### SPECIFICATIONS

		JG-XMF37	
Detectable object		Metal	
Detection distance		Flush: 15mm	Non-flush:20mm
Item.NO.	Current type	XMF37-3015PMI	XMF37-3020PMI
	Voltage type	XMF37-3015PMU	XMF37-3020PMU
Voltage range		15~30VDC	
Consumption	at the time of detection	≤200mA; <4mA	
	at the time of non-detection	≤20mA	
Loading Resistance	Current type	0~300Ω	
	Voltage type	≥2.2KΩ	
Output	Current type	4~20mA	
	Voltage type	0-10V	
Allowable voltage undulation		≤5%	
Output signal		PNP imitation	
Linear error		±5%	
Ambient temperature		-10°C~++70°C	
Shell material		Plastic	
Protection standard		Ip65	

## COLOR MARK SENSOR



### SPECIFICATIONS

		JG-Z3N-TB22
Size(mm) :		28*48*80
Supply Voltage :		10-30V DC
Ambient temperature :		-50°C~+65°C
Detecting method :		Coaxial reflection
Examination distance :		10mm ± 2mm
Chromatogram of light :		Red/Green/Blue/White
Facula :		Circular
Response time :		0.1-1ms
Output current :		less than 200mA
Output type :		NPN/PNP
Shell material :		Metal
Cable length :		2m
Gross Weight :		410g



## BULB TOWER WARNING LIGHT

### APPLICATIONS

Blub Signal tower Series is a low-priced multi-layer signal light that features an outstanding vibration resistance and a long service life.



LTA-2 05 3 W J

### MODEL NOTE

Voice-emitting:I:Intermittent alarm; C:Continual alarm ;

Light Source:T:Steady burn; W:Flash;

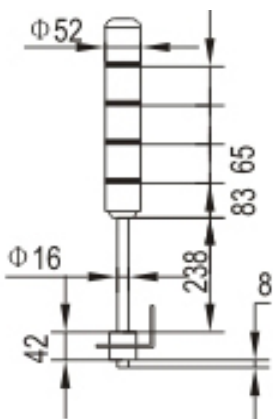
Color:Red ; Yellow ; Green; Blue ; White

Light-emitting:5:LED; 2:Bulb; 1:Rotator;

### SPECIFICATIONS

MODEL CODE	LAYER	FUNCTION	LIGHT POWER	VOLTAGE	DECIBELS	COLOR
JG - LTA - 2051	1	W Flash	5W	DC 12V DC 24V AC 110V AC 220V	85dB	RED
		WJ flash + with buzzer				
JG - LTA - 2052	2	W Flash	10W	DC 12V DC 24V AC 110V AC 220V	85dB	RED
		WJ flash + with buzzer				GREEN
JG - LTA - 2053	3	W Flash	15W	DC 12V DC 24V AC 110V AC 220V	85dB	RED
		WJ flash + with buzzer				AMBER
JG - LTA - 2054	4	W Flash	20W	DC 12V DC 24V AC 110V AC 220V	85dB	RED
		WJ flash + with buzzer				AMBER
JG - LTA - 2055	5	W Flash	25W	DC 12V DC 24V AC 110V AC 220V	85dB	RED
		WJ flash + with buzzer				AMBER
						GREEN
						BLUE
						WHITE

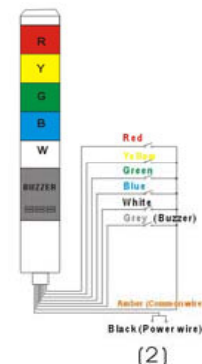
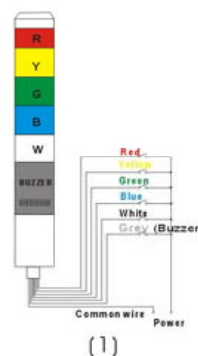
### SHAPE



### WIRING DIAGRAM

1) DC 12V/24V (Steady burn mode)

2) DC 12V/24V, AC 110V/220V (flash mode)  
AC 110V/220V (steady burn mode)



## LED TOWER WARNING LIGHT



### APPLICATIONS

Modular LED signal tower, suitable for larger machines. Increased visibility at great distances with a modular design. LED Signal tower Series offers the latest in LED technology. Versatile and energy-efficient.

LTA-2 05 3 W J

### MODEL NOTE

Voice-emitting: I: Intermittent alarm; C: Continual alarm ;

Light Source: T: Steady burn; W: Flash;

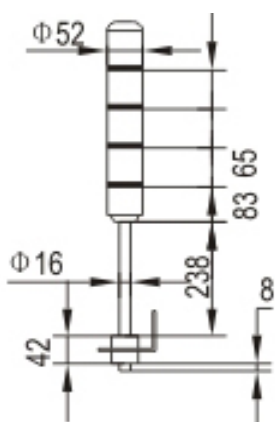
Color: Red ; Yellow ; Green; Blue ; White

Light-emitting: 5: LED; 2: Bulb; 1: Rotator;

### SPECIFICATIONS

MODEL CODE	LAYER	FUNCTION	LIGHT POWER	VOLTAGE	DECIBELS	COLOR
JG - LTA - 5051	1	W Flash	2W	DC 12V DC 24V AC 110V AC 220V	85dB	RED
		WJ flash + with buzzer				
JG - LTA - 5052	2	W Flash	4W	DC 12V DC 24V AC 110V AC 220V	85dB	RED
		WJ flash + with buzzer				GREEN
JG - LTA - 5053	3	W Flash	6W	DC 12V DC 24V AC 110V AC 220V	85dB	RED
		WJ flash + with buzzer				AMBER
JG - LTA - 5054	4	W Flash	8W	DC 12V DC 24V AC 110V AC 220V	85dB	RED
		WJ flash + with buzzer				AMBER
						GREEN
						BLUE

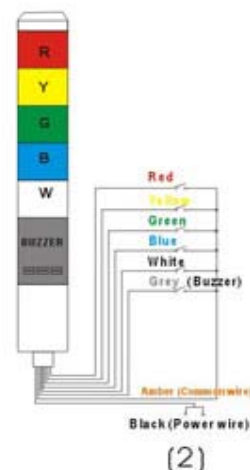
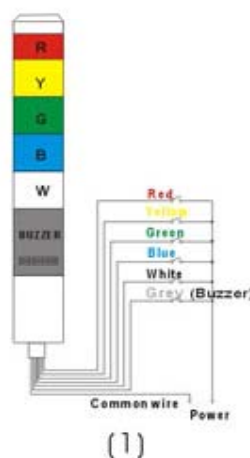
### SHAPE



### WIRING DIAGRAM

1) DC 12V /24V  
(Steady burn mode)

2) DC 12V /24V, AC 110V/220V (flash mode)  
AC 110V/220V (steady burn mode)



## TOWER WARNING LIGHT ACCESSORIES

### STACK LIGHT'S MOUNTING BASE

FZ-L-1	FZ-L-2	FZ-L-3	FZ-L-4

### ACCESSORIES



#### BULB

Electronic working mode , Flash or steady burn optional , the flash rate is available as per the request of customer .



#### LED

Adopting imported high bright led tube,which is the popular cold light source in Warning light,No hot,service time for more than 100,000 hours.and Save energy.



#### SPEAKER

High quality speaker.





## BULB REVOLVING WARNING LIGHT



JG-LTE-1101J



JG-LTE-2071

### APPLICATIONS

Revolving Warning Light: High quality halogen bulb is used.adopting wear-resisting rubber whell droved by direct current micro-electric motor,long life.

LED Warning Light:Adopting imported high bright led tube,which is the popular cold light source in Warning light.Made the design of protecting environment. Service time for more than 100,000 hours.and Save energy.



LTE-Screw Fixing



J-With Buzzer

### SPECIFICATIONS

MODEL CODE	LIGHT POWER	VOLTAGE	DECIBELS	COLOR	DIMENSION				
JG - LTE - 1101 JG - LTE - 1101J	10W	DC 12V DC 24V AC 110V AC 220V	90dB	<table border="1"> <tr><td>RED</td></tr> <tr><td>AMBER</td></tr> <tr><td>GREEN</td></tr> <tr><td>BLUE</td></tr> </table>	RED	AMBER	GREEN	BLUE	
RED									
AMBER									
GREEN									
BLUE									
JG - LTE - 2071 JG - LTE - 2071J	DC 10W AC 15W	DC 12V DC 24V AC 110V AC 220V	90dB	<table border="1"> <tr><td>RED</td></tr> <tr><td>AMBER</td></tr> <tr><td>GREEN</td></tr> <tr><td>BLUE</td></tr> </table>	RED	AMBER	GREEN	BLUE	
RED									
AMBER									
GREEN									
BLUE									

### ACCESSORIES



#### BULB

Electronic working mode , Flash or steady burn optional , the flash rate is available as per the request of customer .



Adopting Rotator classic mode , more brightness, and give us the best signal caution.



#### LED

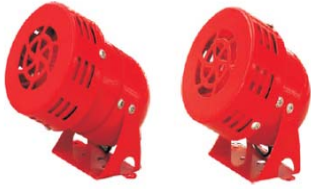
Adopting imported high bright led tube,which is the popular cold light source in Warning light,No hot,service time for more than 100,000 hours.and Save energy. LED light available on request of the customer



## MOTOR SIREN

### APPLICATIONS

Motor Siren with the external diameter of 80/100mm which makes the output of 40W sound volume. Suitable for warning information of small hoist, light transfer cars and the inside of small vessel.



Material :	STEEL & ABS
Insulation resistance :	100MΩ(at 500 VDC)
Dielectric strength :	500VAC, 50/60Hz in 1 minute
Protection class :	IP44
Special motor :	High-quality motor, rotating speed of 10000 rev / sec.
Duration :	Sustainable working hours to 40 minutes.

### SPECIFICATIONS

MODEL CODE	VOLTAGE	FREQUENCY (Hz)	CURRENT (A)	DECIBELS	COLOR	DIMENSION
JG - MS - 190	DC 12V	50/60	6.00	114dB	RED	
	DC 24V		2.50			
	AC 110V		0.90			
	AC 220V		0.43			
JG - MS - 290	DC 12V	60	5.80	116dB	RED	
	DC 24V		2.10			
	AC 110V		1.60			
	AC 220V		0.80			

## BUZZER SIREN

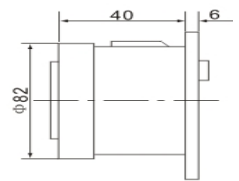
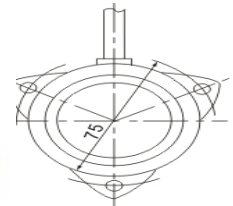
### APPLICATIONS

Electronic Buzzer is suitable for the industry field. Features high quality and long working time. It has no Electromagnetic Interference, equipped with nice tone , cheap price, functions, continual alarm and Intermittent alarm optional.

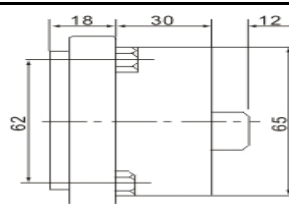
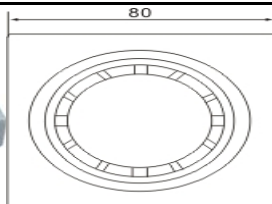


Voltage :	DC12V/ DC24V/ AC110V/ AC220V
Frequency :	50 Hz
Decibel :	80dB

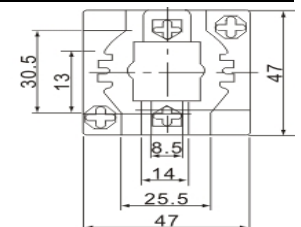
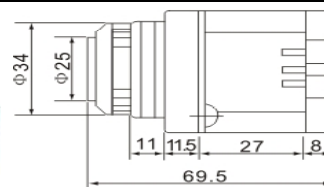
JG-HRB-N80



JG-HRB-P80



JG-HRB-PS30



## LIMIT SWITCHES



### APPLICATIONS

Limit switches are ideal electrical control switches in mechanical and other industries. They have features of complete specifications and varieties of types, compact structure, nice appearance, excellent performance, flexible and reliable action, easy installation, operation, maintenance and adjustment.

The switches are applicable to AC control circuits of 40 to 60Hz, with a voltage up to 500V or DC control circuits with a voltage up to 600V, and a current up to 10A to convert a mechanical signal into an electrical signal for the purpose of controlling mechanical movement or performing sequential control. Limite switches are used in wide range of industries, some of the applications are:

- Assembly Lines
- Baling Machines
- Cnc Machines
- Coin/Slot Machines
- Compactors
- Conveyor Systems
- Elevator Controls
- Food Processing Equipment
- Industrial Ovens
- Industrial Automation
- Machine Tools
- Material Handling
- Milling Machines
- Overhead Door Controls
- Packaging Equipment
- Paper Industry
- Plastic Injection Machines
- Process Control
- Radial Drill & Lathes
- Robotics
- Security Industry
- Textile Machines
- Transfer Machines
- Woodworking Equipment

### JG-XCK-M●●



XCK-M102    XCK-M106    XCK-M116    XCK-M115    XCK-M121    XCK-M139    XCK-M141

### JG-XCK-P●●



XCK-P102    XCK-P106    XCK-P110    XCK-P118    XCK-P121    XCK-P127    XCK-P128    XCK-P139    XCK-P145    XCK-P155



## LIMIT SWITCHES

### JG-XCK-J●●



XCK-J10511 XCK-J10531 XCK-J10541 XCK-J10559 XCK-J108 XCK-J121 XCK-J139 XCK-J161 XCK-J167

### JG-ME●●



ME9101 ME8104 ME8107 ME8108 ME8111 ME8112 ME8122 ME8166 ME8169

### JG-WL-●●



WL-CA2 WL-CA2-2 WL-CA12 WL-CA12-2 WL-CA32-41 WL-CL WL-D WL-D2 WL-NJ WL-NJ-S2

### JG-3SE3 100 ●●



3SE3 100-1B 3SE3 100-1D 3SE3 100-1E 3SE3 100-1F 3SE3 100-1G

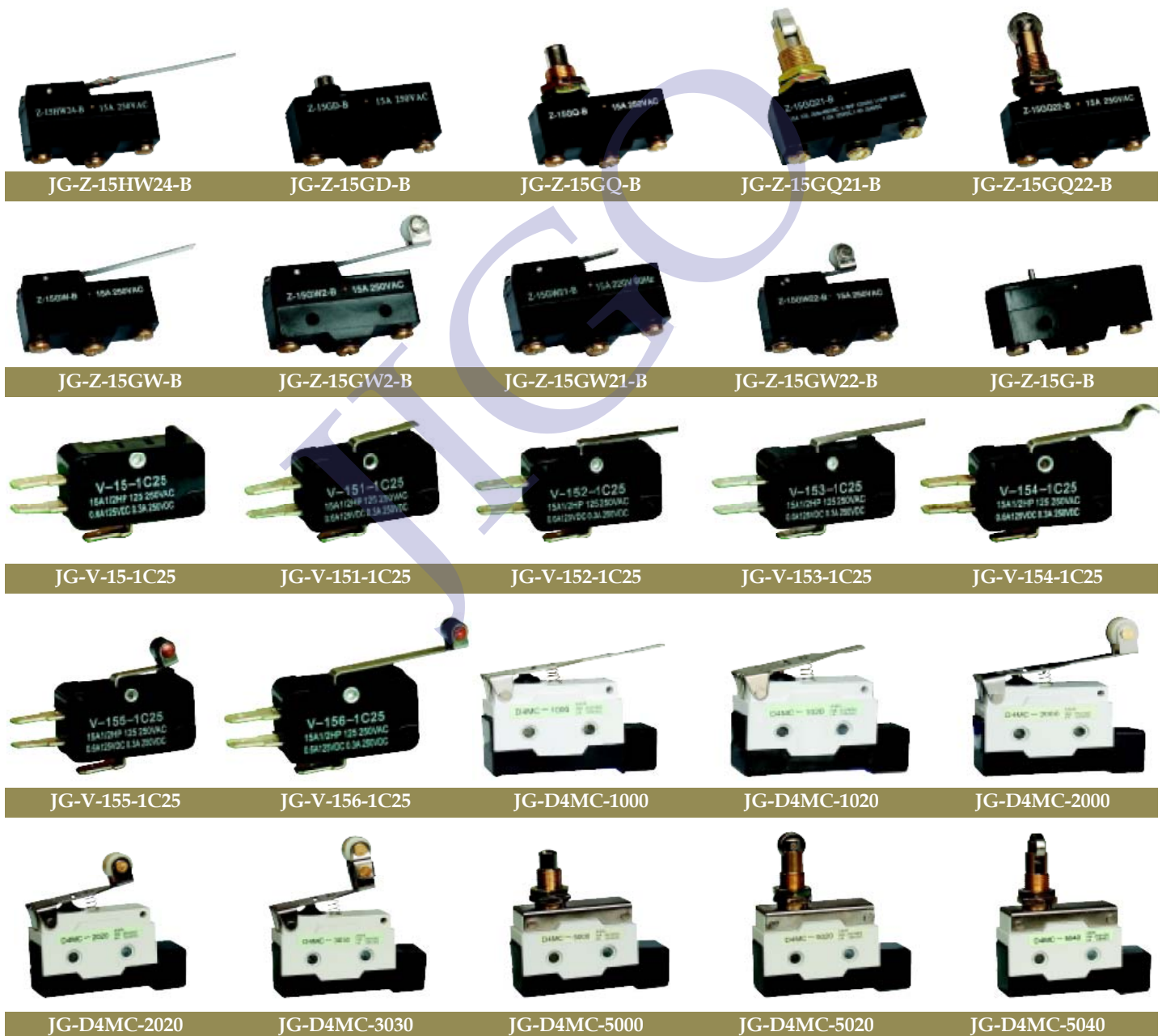
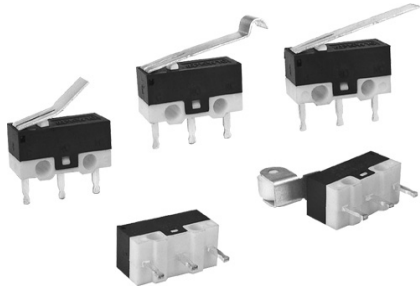


## MICRO SWITCHES

### APPLICATIONS

General purpose micro switches are used in AC control circuits of 50/60Hz, with a voltage up to 380V and a rated control capacity of 100VA or in DC control circuits with a voltage up to 220V and a rated control capacity of 10W.

Micro switches are very widely used; among their applications are appliances, machinery, industrial controls, vehicles, and many other places for control of electrical circuits. They are usually rated to carry current in control circuits only, although some switches can be directly used to control small motors, solenoids, lamps, or other devices. A motor driven cam (usually relatively slow-speed) and one or more micro switches form a timer mechanism. The snap-switch mechanism can be enclosed in a metal housing including actuating levers, plungers or rollers, forming a limit switch useful for control of machine tools or electrically-driven machinery.



## SWITCHING POWER SUPPLY



### APPLICATIONS

A switched-mode power supply (switching-mode power supply, SMPS, or simply switcher) is an electronic power supply that incorporates a switching regulator in order to be highly efficient in the conversion of electrical power. Like other types of power supplies, an SMPS transfers power from a source like the electrical power grid to a load (e.g., a personal computer) while converting voltage and current characteristics. An SMPS is usually employed to efficiently provide a regulated output voltage, typically at a level different from the input voltage.

Unlike a linear power supply, the pass transistor of a switching mode supply switches very quickly (typically between 50 kHz and 1 MHz) between full-on and full-off states, which minimizes wasted energy. Voltage regulation is provided by varying the ratio of on to off time. In contrast, a linear power supply must dissipate the excess voltage to regulate the output. This higher efficiency is the chief advantage of a switch-mode power supply.

Switching regulators are used as replacements for the linear regulators when higher efficiency, smaller size or lighter weight are required. They are, however, more complicated, their switching currents can cause electrical noise problems if not carefully suppressed, and simple designs may have a poor power factor.



### SPECIFICATIONS

- Low price and high reliability
- 105°C output capacitor
- AC input power suitable for the world
- High efficiency and low operation temperature
- Soft-start current can reduce the AC input impact effectly
- With Short-circuit and overload protection
- Compact size, light weight
- 100% full-load burning test
- Installed with EMI filter, minimum wave

### Notes :

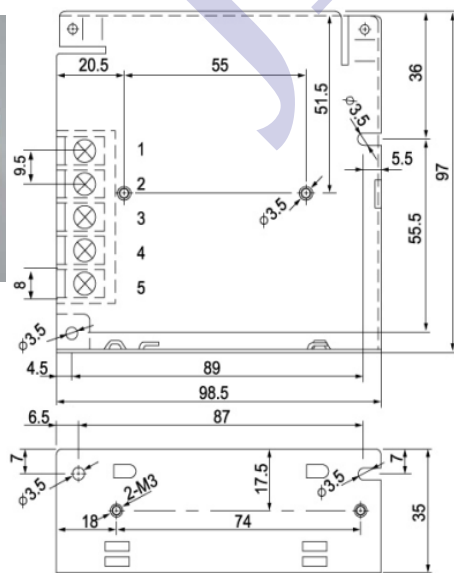
1. The testing condition for the parameter above is :230VAC input, rated load, 25°C 70% RH. Humidity.
2. Error. include the setting error, line stability and load stability. (Note: 5).
3. Wave test: adopting "A12" double wire for 20MHz, and 0.1UF & 47UF capacitor short-circuit for interrupting
4. Inlet voltage stability test: when is over load, the lowest voltage of inlet is up to the highest voltage.
5. Load stability test: the load is from 0% to 100%.



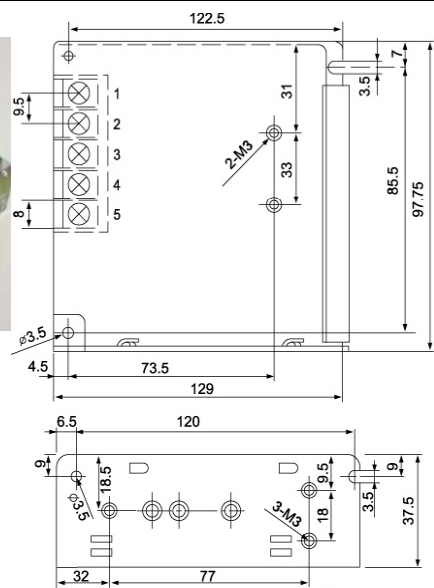
# SWITCHING MODE POWER SUPPLY (SMPS)

## SWITCHING POWER SUPPLY

CODE	JG-S-15	JG-S-25		JG-S-35
Specification	S-15-12	S-25-12	S-25-24	S-35-12
DC output voltage	12V	12V	24V	12V
Output voltage error (Note : 2)	±1%	±1%	±1%	±1%
Rated output current	1.3A	2.1A	1.1A	3A
Output current range	0-1.3A	0-2.1A	0-1.1A	0-3A
Wave and noise(Note : 3)	50mVp-p	100mVp-p	100mVp-p	100mVp-p
Inlet stability(Note : 4)	±0.5%	±0.5%	±0.5%	±0.5%
Load stability (Note : 5)	±0.5%	±0.5%	±0.5%	±0.5%
DC output power	15.6W	25.2W	26.4W	36W
Efficiency	68%	76%/115VAC	80%/115VAC	76%
Adjustable range for DC voltage	+10%	+10%	+10%	+10%
AC input voltage range	85-132VAC/170-264VAC, Selected by switch 47-63Hz ; 240-370VDC			
Input current	0.5A/115V 0.25A/230A	0.6A/115V 0.35A/230A		0.5A/115V 0.25A/230A
AC INrush current	Cold-start current15A/115V 30A/230V			
Leakage current	<0.5mA/240VAC	<0.75mA/240VAC		<0.5mA/240VAC
Overload protection	105%-150% Type:Foldback:current limiting reset:auto recovery.			
Over-voltage protection	.....	115% - 135%		.....
Temperature coefficient	±0.02%/°C (0-50°C)	±0.03%/°C (0-50°C)		
Setup rise hold up time	200ms,100ms,30ms	800ms,50ms,10ms/115VAC 300ms,50ms,80ms/230VAC		200ms,100ms,30ms
Vibration	10-500Hz,2G 10min,/1cycle,Period for60min,Each axes			
Withstand voltage	Input and output internal:1.5KVAC,Input and enclosure:1.5KVAC,Output and			
Isolation resistance	Input and output internal:Input and enclosure,Output and enclosure:500VDC/100MΩ			
Working temperature & humidity	-10°C~+60°C(Refer to output derating curve),20%~90%RH			
Store temperature and humidity	-20°C~+85°C 10%~95%RH			
Overall dimension	99×97×35mm			129×98×38mm
Weight	0.3Kgs			0.4Kgs



JG-S-15 & JG-S-25

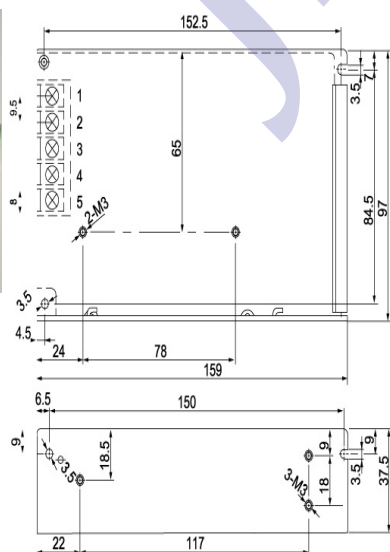


JG-S-35

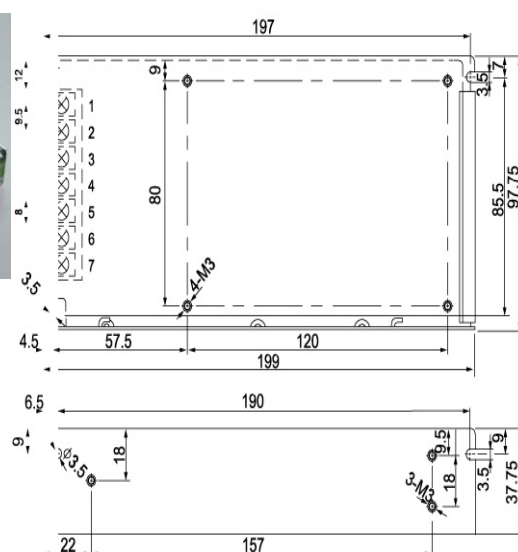


## SWITCHING POWER SUPPLY

CODE	JG-S-50		JG-S-75	JG-S-100
Specification	S-50-12	S-50-24	S-75-12	S-100F-24
DC output voltage	12V	24V	12V	24V
Output voltage error (Note : 2)	±1%	±1%	±1%	±1%
Rated output current	4.2A	2.1A	6.3A	4.5A
Output current range	0-4.2A	0-2.1A	0-6.3A	0-4.5A
Wave and noise(Note : 3)	100mVp-p	100mVp-p	100mVp-p	150mVp-p
Inlet stability(Note : 4)	±0.5%	±0.5%	±0.5%	±0.5%
Load stability (Note : 5)	±0.5%	±0.5%	±0.5%	±0.5%
DC output power	50.4W	50.4W	75.6W	108W
Efficiency	78%	78%	76%	83%
Adjustable range for DC voltage	+10%	+10%	+10%	+10%
AC input voltage range	85-132VAC/170-264VAC, Selected by switch 47-63Hz ; 240-370VDC			
Input current	1.3A/115V 0.65A/230A		2A/115VAC, 1A/230VAC	
AC INrush current	Cold-start 18A/115V 36A/230V		20A/115VAC 40A/230VAC	30A/115VAC 60A/230VAC
Leakage current	<0.5mA/240VAC		<3.5mA / 240VAC	<1mA/240VAC
Overload protection	105%-150% Type:Foldback:current limiting reset:auto recovery.			
Over-voltage protection	.....		115% - 135%	115% - 135%
Temperature coefficient	±0.03%/°C (0-50°C)			
Setup rise hold up time	200ms,100ms,30ms		800ms,50ms,10ms/115 VAC	1s,30ms,15ms
Vibration	10-500Hz,2G 10min,/1cycle,Period for60min,Each axes			
Withstand voltage	Input and output internal:1.5KVAC,Input and enclosure:1.5KVAC,Output and			
Isolation resistance	Input and output internal:Input and enclosure,Output and enclosure:500VDC/100MΩ			
Working temperature & humidity	-10°C~+60°C(Refer to output derating curve),20%~90%RH			
Store temperature and humidity	-20°C~+85°C 10%~95%RH			
Overall dimension	159×97×38mm			199×98×38mm
Weight	0.5Kgs			0.65Kgs



JG-S-50 & JG-S-75



JG-S-100



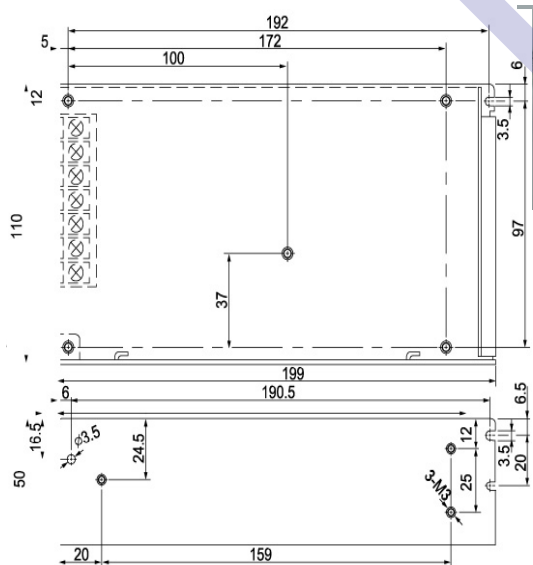


# SWITCHING MODE POWER SUPPLY (SMPS)

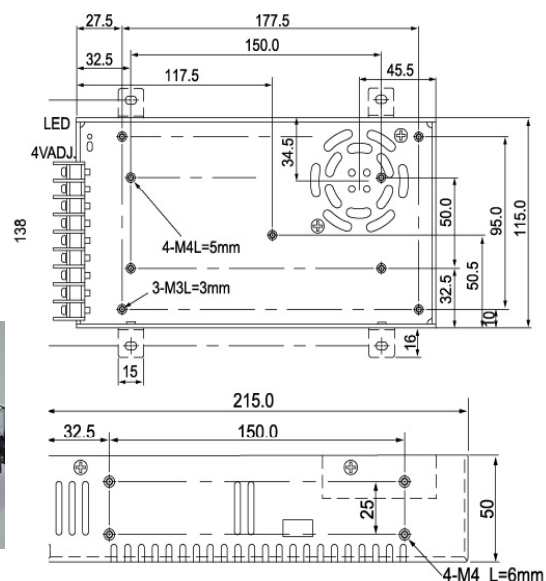
**JIGO®**

## SWITCHING POWER SUPPLY

CODE	JG-S-120	JG-S-150	JG-S-250	JG-S-350
Specification	S-120-12	S-150-24	S-250-24	S-350-24
DC output voltage	12V	24V	24V	24V
Output voltage error (Note : 2)	±1%	±1%	±1%	±1%
Rated output current	10A	6.5A	10A	14.6A
Output current range	0-10A	0-6.5A	0-10A	0-14.6A
Wave and noise(Note : 3)	150mVp-p	240mVp-p	150mVp-p	150mVp-p
Inlet stability(Note : 4)	±0.5%	±0.2%	±0.5%	±0.5%
Load stability (Note : 5)	±0.5%	±0.2%	±0.5%	±0.5%
DC output power	120W	156W	240W	350.4W
Efficiency	80%	85%	86%	81%
Adjustable range for DC voltage	+10%	21~28V	20-26.4V	20-26.4V
AC input voltage range	85-132VAC/170-264VAC, Selected by switch 47-63Hz ; 240-370VDC			
Input current	3A/115V 1.5A/230A	3.2A/115V 1.6A/230A	4A/115VAC, 3.5A/230VAC	5A/115VAC, 4A/230VAC
AC INrush current	15A/115VAC 30A/230VAC	30A/115VAC 60A/230VAC	20A/115VAC 40A/230VAC	25A/115VAC 50A/230VAC
Leakage current	<3.5mA / 240VAC	<3.5mA / 240VAC	<3.5mA / 240VAC	<3.5mA/240VAC
Overload protection	105%-150% Type:Foldback:current limiting reset:auto recovery.			
Over-voltage protection	115% - 135%	115% - 135%	115% - 135%	27.6~32.4V
Temperature coefficient	±0.03%/°C (0-50°C)	±0.03%/°C (0-50°C)	±0.03%/°C (0-50°C)	±0.03%/°C (0-50°C)
Setup rise hold up time	200ms,50ms,20ms	100ms,50ms,20ms	2s,20ms,20ms	200s,100ms,20ms
Vibration	10-500Hz,2G 10min,/1cycle,Period for60min,Each axes			
Withstand voltage	Input and output internal:1.5KVAC,Input and enclosure:1.5KVAC,Output and			
Isolation resistance	Input and output internal:Input and enclosure,Output and enclosure:500VDC/100MΩ			
Working temperature & humidity	-10°C~+60°C(Refer to output derating curve),20%~90%RH			
Store temperature and humidity	-20°C~+85°C 10%~95%RH			
Overall dimension	199×98×38mm	199×110×50mm	215×115×50mm	215×115×50mm
Weight	0.65Kgs	0.8Kgs	1.15Kgs	1.15Kgs



JG-S-120 & JG-S-150



JG-S-250 & JG-S-350

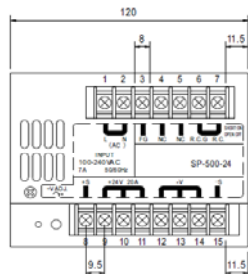
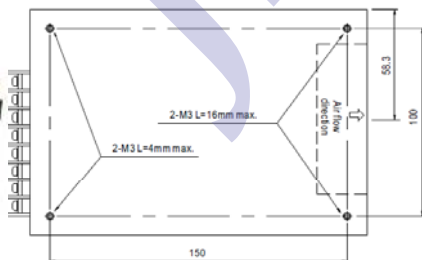


# SWITCHING MODE POWER SUPPLY (SMPS)

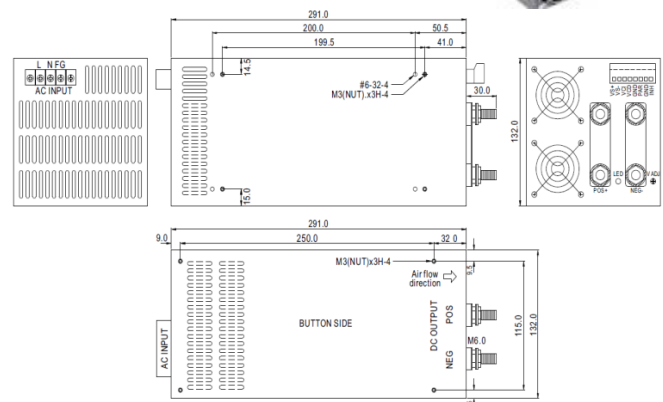
**JIGO®**

## SWITCHING POWER SUPPLY

CODE	JG-S-500	JG-S-600	JG-S-1000	JG-S-1200
Specification	SP-500-24	S-600-24	S-250-24	S-350-24
DC output voltage	24V	24V	24V	24V
Output voltage error (Note : 2)	±1%	±3%	±1%	±1%
Rated output current	20A	25A	40A	50A
Output current range	0-20A	0-25A	0-40A	0-50A
Wave and noise(Note : 3)	240mVp-p	240mVp-p	240mVp-p	240mVp-p
Inlet stability(Note : 4)	±0.5%	±0.5%	±0.5%	±0.5%
Load stability (Note : 5)	±0.5%	±0.5%	±0.5%	±0.5%
DC output power	480W	600W	240W	350.4W
Efficiency	84%	87%	82%	85%
Adjustable range for DC voltage	20 ~ 26.4V	20~26.4V	20-26.4V	20-26.4V
AC input voltage range	85-132VAC/170-264VAC, Selected by switch 47-63Hz ; 240-370VDC			
Input current	7A/115V 3.5A/230A	12A/115V 7.5A/230A	8A/230VAC	8A/230VAC
AC INrush current	18A/115VAC 36A/230VAC	18A/115VAC 36A/230VAC	18A/115VAC 36A/230VAC	18A/115VAC 36A/230VAC
Leakage current	<3.5mA / 240VAC	<3.5mA / 240VAC	<3.5mA / 240VAC	<3.5mA/240VAC
Overload protection	105%-150% Type:Foldback:current limiting reset:auto recovery.			
Over-voltage protection	27.6~32.4V	115%-135	115%-135	115%-135
Temperature coefficient	±0.03%/°C (0-50°C)	±0.03%/°C (0-50°C)	±0.03%/°C (0-50°C)	±0.03%/°C (0-50°C)
Setup rise hold up time	200ms,50ms,20ms	200ms,50ms,20ms	200ms,100ms,30ms	200ms,100ms,30ms
Vibration	10-500Hz,2G 10min,/1cycle,Period for60min,Each axes			
Withstand voltage	Input and output internal:1.5KVAC,Input and enclosure:1.5KVAC,Output and			
Isolation resistance	Input and output internal:Input and enclosure,Output and enclosure:500VDC/100MΩ			
Working temperature & humidity	-10°C~+60°C(Refer to output derating curve),20%~90%RH			
Store temperature and humidity	-20°C~+85°C 10%~95%RH			
Overall dimension	170×120×93mm	170×120×93mm	291×132×132mm	291×132×132mm
Weight	1.8Kgs	1.8Kgs	6.4Kgs	6.4Kgs



JG-S-500 & JG-S-600



JG-S-1000 & JG-S-1200



## AC PULLING SOLENOID



### APPLICATIONS

This series solenoid is applied to AC 50HZ, which voltage can reach 380V. It can be used as a power component of machine equipment and the automatic system to realize the three-control of the various outfits and the mechanical trigger, of which performance is the same as that of SA products.

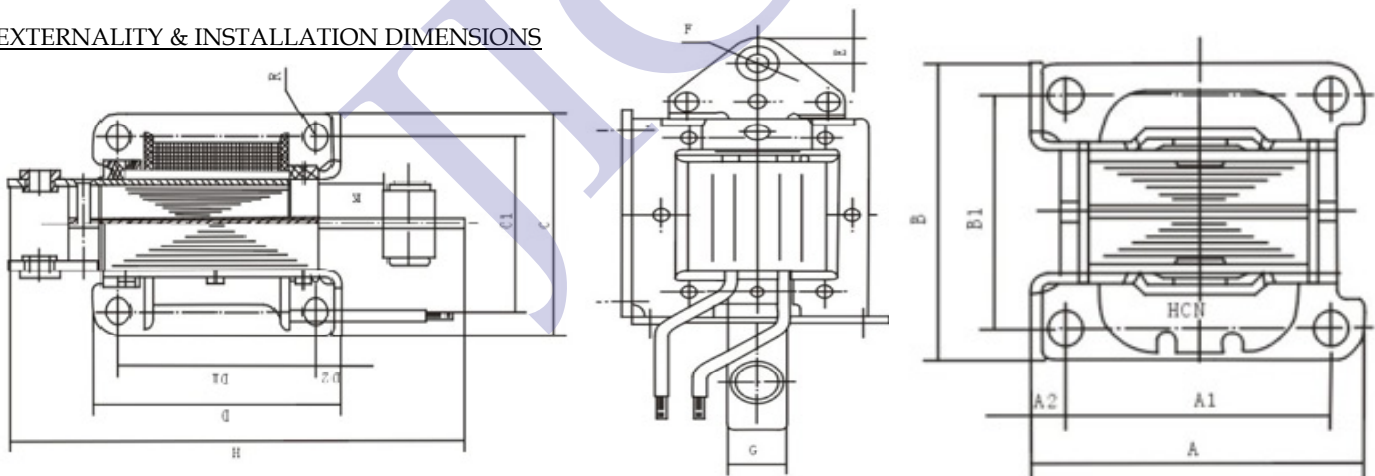
### SERVICE CONDITIONS

- Install at the place where there is no marked shock of shock motion.
- There is no gas or dust which can corrupt metal or destroy nonconductor, or it will affect the products lifetime.
- The solenoids fit for the character of service as follows: disconnected continuous duty system, intermittent recycled duty system.
- The reasonable wave range of supply voltage is between 85%-110% (any special requirements is possible).
- When the solenoids have been used for a long time, they may produce noise and can not be stroked, you can disassemble the solenoids, cleaning the oil stain and the dirtiness from the pole of armature in order to avoid the coil from burning.

### KEY PARAMETERS

Code	Rated Voltage (V)	Rated Force (N)	Rated Stroke (mm)	Operating Frequency(T/h)	Weight
JG-992	36 110 220 380	5	10	1500	0.5 Kg
JG-2402	36 110 220 380	10	15	1200	1 Kg
JG-2502	36 110 220 380	15	15	1200	1.5 Kg
JG-2602	36 110 220 380	20	15	1200	2 Kg
JG-3502	36 110 220 380	30	20	720	3 Kg
JG-3602	36 110 220 380	40	20	720	4 Kg
JG-3702	36 110 220 380	50	20	720	5 Kg

### EXTERNALITY & INSTALLATION DIMENSIONS



Code	External Dimensions					Installation Dimensions						Mntng Hole R	Related Size			
	A	B	C	D	H	A1	A2	B1	C1	D1	D2		E	F	G	K
JG-992	38	31.6	34	38/43	85	28	5.7	24	24	28/32	5.3/7	2.2	5	4	10	10
JG-2402	46	46	46	49	93	35	7.4	36	36	35	8	2.2	6.4	4	10	15
JG-2502	46	52	52	49	93	35	7.4	42	42	35	8	2.2	6.4	4	10	5
JG-2602	46	56.5	56.5	49	93	35	7.4	46.5	46.5	35	8	2.2	6.4	4	10	19.5
JG-3502	62	71	71	65	131	46	9	55.5	55.5	46	11.5	3.5	8.5	6	15	20
JG-3602	61	76.5	76.5	64.5	130.2	46	8.3	64.5	64.5	46	11.5	3.5	8	6	14.8	20
JG-3702	61	82.5	82.5	64.5	130.2	46	8.3	67.5	67.5	46	11.5	3.5	8	6	14.8	30

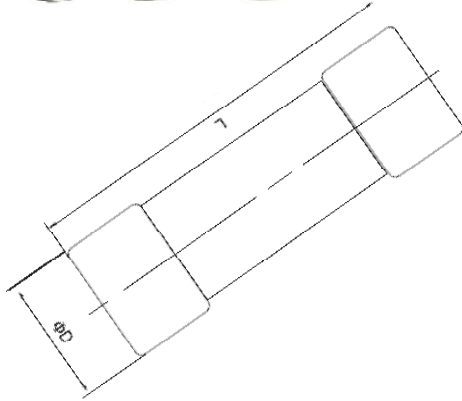


## CYLINDRICAL FUSE LINKS



### APPLICATIONS

This series fuse is suitable for AC 50Hz, rated voltage to 690V, rated current to 125A. It is mainly used for protecting the electrical circuit against overload and short-circuits (gG/gL); it also may derive for protecting the semiconductor device and others complete set installation from short-circuit (aR) as well as the electric motor from short-circuit (aM). The rated breaking capability for this series fuse is to 100KA. IEC60269



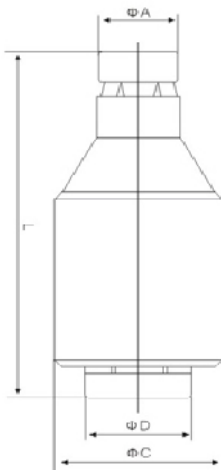
CODE	RATED VOLTAGE(V)	RATED CURRENT(A)	WEIGHT (gm)	DIMENSIONS (mm) ΦD x L
JG-RO14	500V	0.5A - 20A	4.4 gm	Φ8.5 x 31.5
JG-RO15	380V - 500V	0.5A - 32A	7.7 gm	Φ10.3 x 38
JG-RO16	380V - 660V	2A - 63A	20.5 gm	Φ14.3 x 51
JG-RO17	380V - 660V	63A - 125A	58 gm	Φ22.2 x 58
JG-RO07	600V	10A - 100A	75 gm	Φ30 x 57

## BOTTLE TYPE FUSE LINKS



### APPLICATIONS

This series fuse is suitable for AC 50Hz, rated voltage to 1140V, rated current to 630A. It is mainly used for protecting the electrical equipment against overload and short-circuits (gG/gL); it also may derive for protecting the semiconductor device and others complete set installation from short-circuit (aR) as well as the electric motor from short-circuit (aM). The rated breaking capability for this series fuse is to 50KA.

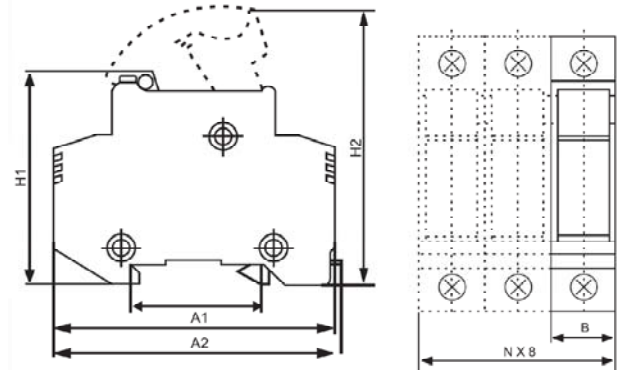


CODE	RATED VOLTAGE(V)	RATED CURRENT(A)	WEIGHT (gm)	DIMENSIONS(mm)			
				ΦA	ΦC	ΦD	L
JG-RO21	500V	2A - 6A	24.8 gm	6	22	13	50
		8A - 10A		8	22	13	50
		13A		8	22	15	50
		16A		10	22	15	50
		20A		12	22	15	50
		25A		14	22	15	50
JG-RO22	500V	30A - 40A	48.1 gm	16	27	20	50
		50A		18	27	20	50
		63A		20	27	20	50



# FUSE LINKS AND FUSE HOLDERS

## CYLINDRICAL FUSE HOLDERS



CODE	MATCHING WITH FUSE'S SIZE	RATED VOLTAGE(V)	RATED CURRENT(A)	WEIGHT (gm)	DIMENSIONS(mm)				
					A1	A2	B	H1	H2
JG-RT18-32	10x38	500V	32A	59 gm	79	81	18	61	80
JG-RT18-63	14x51	500V	63A	192 gm	103	105	27	80	110
JG-RT18-63 (3P+N)	14x51	500V	63A		103	105	27	80	110

## FUSE CARRIER (FUSE PULLER)

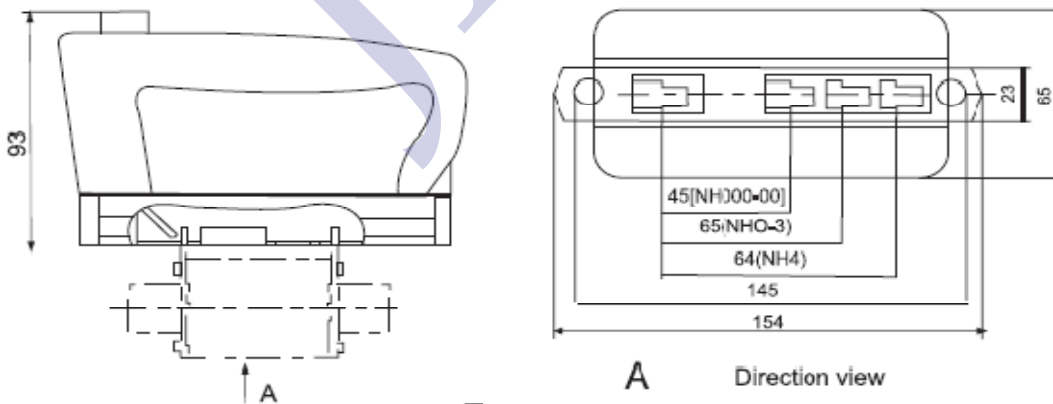


### APPLICATIONS

The fuse carrier is used for loading and unloading on corresponding base for knife type contact fuse links of various sizes in AC 50Hz and rated voltage up to 1000V. It is featured with reliable insulating, safe using and flexible operation and so on.

The fuse carrier is made up of catching holes, push button, guard board and handles. There are three positions for catching holes for RT16, NT, NH and RT0 fuses.

### DIMENSIONS



## JG-LC1D SERIES AC CONTRACTOR



JG-LC1-D09



JG-LC1-D18



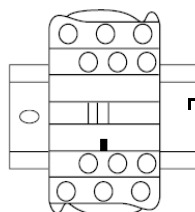
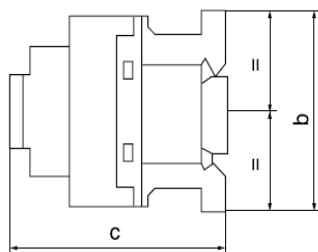
JG-LC1-D25

### APPLICATIONS

JG-LC1D series AC contactor is suitable for frequency 50/60Hz, rated insulation voltage up to 1000V, rated operation current 9~150A under AC-3 duty. It is mainly used for making/breaking electric circuits at a long distance & for frequent starting/stopping & controlling AC Motors. It is used in combination with thermal relay to compose a magnetic motor starter. The products Comply with IEC60947-4-1 standard.

### SPECIFICATIONS

CODE		JG-LC1-D09	JG-LC1-D12	JG-LC1-D18	JG-LC1-D25	JG-LC1-D32
Rated Working Current Ie (A) Ac-3 Ue ≤440V		9	12	18	25	32
Rated Hear Current Ith (A)		25	25	32	40	50
Rated Insulation Voltage Ui (V)		690	690	690	690	690
Rated Operating Voltage Ue(V) Max		690	690	690	690	690
Rated Operational Power in AC-3 Pe (KW)	220/230V	2.2	3	4	5.5	7.5
	380/400V	4	5.5	7.5	11	15
	415/440V	4	5.5	9	11	15
	500V	5.5	7.5	10	15	18.5
	660/690V	5.5	7.5	10	15	18.5
Rated Operational Power in AC-4 Pe (KW)	220/230V	1.5	1.5	2.2	3	4
	380/400V	2.2	3.7	4	5.5	7.5
	415/440V	2.2	3	3.7	5.5	7.5
	500V	3	4	5.5	7.5	9
	660/690V	4	5.5	7.5	10	11
Frequency Of Operation (I/H)		1200	1200	1200	1200	1000
Electrical Endurance (x10 <sup>4</sup> )	AC-3	100	100	100	100	80
	AC-4	20	20	20	20	20
Mechanical Endurance (X106)		15	15	15	15	15
Operating Voltage Range Of Coil		Close voltage:(0.85~1.1)Us Open voltage:(20%~75%)Us				
Power Consmpn. Of Coil (VA)	Attracting	7	7	7	7	7
	Starting	70	70	70	70	70
Rated Insulation Voltage Ofauxiliary Contacts (V)		690	690	690	690	690
Conventional Thermal Current Of Auxitiary Contacts (A)		10	10	10	10	10
Auxitiary Contacts Specification		AC-15:360VA DC-13:33W				



	LC1-D09	LC1-D12	LC1-D18	LC1-D25	LC1-D32
b	76.6	76.6	76.6	76.6	76.6
c	87	87	87	94	94



## JG-LC1D SERIES AC CONTRACTOR

### SPECIFICATIONS

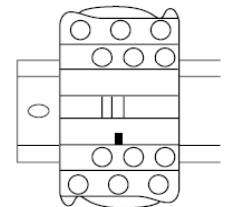
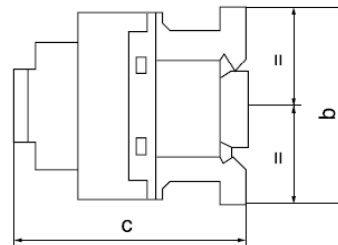
CODE		JG-LC1-D38	JG-LC1-D40	JG-LC1-D50	JG-LC1-D65	JG-LC1-D80	JG-LC1-D95
Rated Working Current Ie (A) Ac-3 Ue ≤440V		38	40	50	65	80	95
Rated Hear Current Ith (A)		50	60	80	80	125	125
Rated Insulation Voltage Ui (V)		690	1000	1000	1000	1000	1000
Rated Operating Voltage Ue(V) Max		690	1000	1000	1000	1000	1000
Rated Operational Power in AC-3 Pe (KW)	220/230V	9	11	15	18.5	22	25
	380/400V	18.5	18.5	22	30	37	45
	415/440V	18.5	22	25/30	37	45	45
	500V	18.5	22	30	37	55	55
	660/690V	18.5	30	33	37	45	45
Rated Operational Power in AC-4 Pe (KW)	220/230V	4	4	5.5	7.5	7.5	9
	380/400V	7.5	9	11	11	15	15
	415/440V	7.5	9/11	11	11/15	15	15
	500V	9	11	15	18.5	22	22
	660/690V	11	15	18.5	22	25	25
Frequency Of Operation (I/H)		1000	1000	1000	1000	750	750
Electrical Endurance (x10 <sup>4</sup> )	AC-3	80	80	60	60	60	60
	AC-4	20	15	15	15	15	15
Mechanical Endurance (X106)		15	6	6	6	4	4
Operating Voltage Range Of Coil		Close voltage:(0.85~1.1)Us Open voltage:(20%~75%)Us					
Power Consmpn. Of Coil (VA)	Attracting	7	20	20	20	20	20
	Starting	70	200	200	200	200	200
Rated Insulation Voltage Ofauxiliary Contacts (V)		690	690	690	690	690	690
Conventional Thermal Current Of Auxitiary Contacts (A)		10	10	10	10	10	10
Auxitiary Contacts Specification		AC-15:360VA DC-13:33W					



JG-LC1-D50



JG-LC1-D80



### DIMENSIONS

	LC1-D38	LC1-D40	LC1-D50	LC1-D65	LC1-D80	LC1-D95
b	76.6	127	127	127	127	127
c	94	116	116	116	123.8	123.8



## JG-LC1 SERIES AC CONTRACTOR



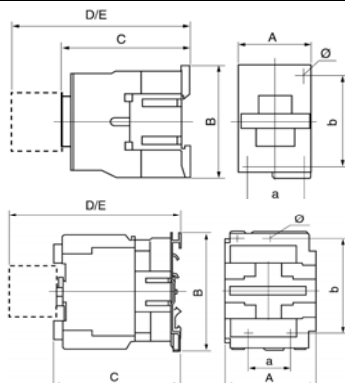
### APPLICATIONS

JG-LC1 (old) series AC Contactor is suitable for using in the circuits up to the rated voltage 660V AC50Hz or 60Hz, rated current up to 620A, for making, breaking, frequently starting & controlling the AC motor. Combined with the auxiliary contact block, timer delay & machine-interlocking device etc, it becomes the delay contactor, mechanical interlocking contactor, star-delta starter. With the thermal relay, it is combined into the electromagnetic starter. The product conforms to IEC60947-4-1 standard.

### SPECIFICATIONS

CODE		JG-LC1-09	JG-LC1-12	JG-LC1-18	JG-LC1-25	JG-LC1-32
Rated working current (A)	AC3	9	12	18	25	32
	AC4	3.5	5	7.7	8.5	12
Standard power ratings of 3-phase motors 50/60Hz in category AC-3	220/230V	2.2	3	4	5.5	7.5
	380/400V	4	5.5	7.5	11	15
	415V	4	5.5	9	11	15
	500V	5.5	7.5	10	15	18.5
	660/690V	5.5	7.5	10	15	18.5
Rated heat current (A)		20	20	32	40	50
Electrical life	AC3 ( $\times 10^4$ )	100	100	100	100	80
	AC4 ( $\times 10^4$ )	20	20	20	20	20
Mechanical life ( $\times 10^4$ )		1000	1000	1000	1000	800
Number of the contacts		3P + NO (JG-LC1-●●10) 3P + NC (JG-LC1-●●01)				3P+NO+NC (JG-LC1-●●11)

CODE		JG-LC1-40	JG-LC1-50	JG-LC1-65	JG-LC1-80	JG-LC1-95
Rated working current (A)	AC3	40	50	65	80	95
	AC4	18.5	24	28	37	44
Standard power ratings of 3-phase motors 50/60Hz in category AC-3	220/230V	11	15	18.5	22	25
	380/400V	18.5	22	30	37	45
	415V	22	25	37	45	45
	500V	22	30	37	55	55
	660/690V	30	33	37	45	55
Rated heat current (A)		60	80	80	125	125
Electrical life	AC3 ( $\times 10^4$ )	80	60	60	60	60
	AC4 ( $\times 10^4$ )	15	15	15	10	10
Mechanical life ( $\times 10^4$ )		800	800	800	600	600
Number of the contacts		3P+NO+NC (JG-LC1-●●11)				



JG-LC1-09~32

### DIMENSIONS

CODE	A	B	C	D	E	a	b	Φ
LC1-09~12	47	76	82	113	133	34/35	50/60	4.5
LC1-18	47	76	87	118	138	34/35	50/60	4.5
LC1-25	57	86	95	126	146	40	48	4.5
LC1-32	57	86	100	131	151	40	48	4.5
LC1-40~65	77	129	116	145	165	40	100/110	6.5
LC1-80~95	87	129	127	175	195	40	100/110	6.5

JG-LC1-40~95





## JG-LC1-F SERIES AC CONTRACTOR

### APPLICATIONS

CJX2-F series AC Contactor is applicable in the circuit rated voltage up to 1000V AC. 50/60Hz, rated current up to 780A, for long distance breaking circuit and frequently starting or controlling the motor. It also can be used for the control of distributing circuits of rated current from 200A to 1600A(AC-1)/115A to 780A(AC-3).The products comply with IEC60947-4.

### SPECIFICATIONS

CODE			JG-LC1-F115	JG-LC1-F150	JG-LC1-F185	JG-LC1-F225	JG-LC1-F265	JG-LC1-F330
Poles			3P					
Rated operation voltage (Ue)	V	380, 660, 1000						
Rated insulation voltage (Ui)	V	1000						
Rated heating current (Ith)	A	200	200	275	275	315	380	
Rated operation current (Ie)	AC-3 380V	A	115	150	185	225	265	330
	AC-3 660V	A	86	108	118	137	170	235
	AC-3 1000V	A	46	51	71	90	112	115
	AC-4 380V	A	52	60	79	85	105	117
	AC-4 660V	A	49	61	69	82	98	118
Max. power of 3 phase motor controlled	AC-3 220V	kW	30	40	55	63	75	100
	AC-3 380V	kW	55	75	90	110	132	160
	AC-3 660V	kW	80	100	110	129	160	220
Electrical life	AC-3	10000 t	60			50		
	AC-4	10000 t	1.5			1.5		
Machinery life	10000 t	600			600			
Operation frequency	AC-3	t/h	600			600		
	AC-4	t/h	150			150		
Matching fuse type			RT16-160	RT16-200	RT16-250	RT16-315	RT16-400	RT16-400
Matching thermal relay type			LR9-F53					LR9-F73
Wiring capacity	mm <sup>2</sup>	50	50	95	95	150	185	
Coil								
Control power	AC	V	48,110,220,380,440,600					
Allowed control circuit voltage	Close	V	85%~110%Us					
	Open	V	20%~75%Us (AC)					
Coil power	Close	VA	550		800		1200	
	Keeping	VA	45		55		13	
	Loss power	W	12~16		18~24		12	
Auxiliary contact								
Rated heating current (Ith)	A	10						
Rated operation voltage (Ue)	AC	V	380					
	DC	V	220					
Rated control capacity	AC-15	VA	360					
	DC-13	W	33					



JG-LC1-F150

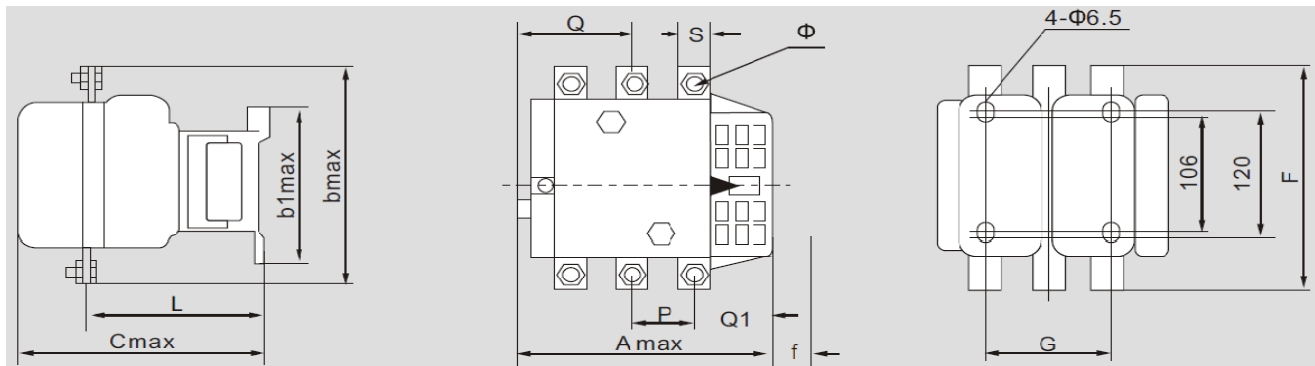


JG-LC1-F115



## JG-LC1-F SERIES AC CONTRACTOR

### DIMENSIONS



CODE	Amax	bmax	b1max	Cmax	G	L	Q	Q1	S	Φ	F	P
JG-LC1-F115	165	164	137	167	80±0.8	108	29.5	60	15	M6 x15	133	37
JG-LC1-F150	165	172	137	167	80±0.8	108	26.5	57.5	20	M6 x20	133	40
JG-LC1-F185	171	176	137	181	80±0.8	114	30	60	20	M6 x20	133	40
JG-LC1-F225	171	199	137	181	80±0.8	114	22	52	25	M6 x30	133	48
JG-LC1-F265	204	205	145	210	96±1.1	143	39	66.5	25	M10 x30	147	48
JG-LC1-F330	209	209	145	216	96±1.1	148	36	74	25	M10 x30	147	48

## JG-LC1-K SERIES AC CONTRACTOR

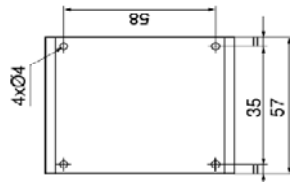
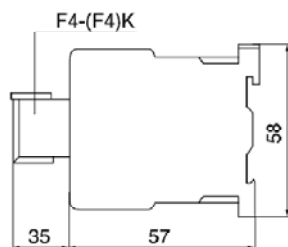
### APPLICATIONS

JG-LC1-K series AC contactor is suitable for use in the circuit up to the rate and frequent starting, controlling the AC motor. The addition of auxiliary contact group to the contactor, combined with the proper thermal relay, can act to protect the circuit bound to overload. It conforms to IEC60947-4-1.



### SPECIFICATIONS

CODE		JG-LC1-K06	JG-LC1-K09	JG-LC1-K12
Rating working voltage(V)	380V	AC-3 6	AC-3 9	AC-3 12
		AC-4 2.6	AC-4 3.5	AC-4 5
Appointed heating current(A)		16	20	20
The max current when turn on(A)	380V	60	90	120
	660V	72	108	144
The max current for turn off(A)	380V	48	72	96
	660V	60	90	120
Three phases cage motors power which can be pulled AC3(KW)	220v	1.5	2.2	3
	380v	2.2	4	5.5
	660v	3	4	4
Operation frequency(time life(x10 <sup>4</sup> ))	AC-3	1200		
	AC-4	300		
Electrical life	AC-3	5x10 <sup>6</sup>		
	AC-4	1x10 <sup>5</sup>		
Mechanical life		3x10 <sup>6</sup>		



### DIMENSIONS



## JG-SC SERIES AC CONTRACTOR

### APPLICATIONS

JG-SC & JG-SMCAC contactor is suitable for using in the circuits voltage up to 660V 50Hz or 60Hz, rated current up to 150A, for making & breaking, and for frequent starting & controlling the motor. The product has the features of small volume, light weight, low power consumption, high efficiency, safety, reliability etc. It also can be combined with contact head group, timer delay block, relay, thermal relay accessories, into motor starter etc, multiserries products. It conforms with IEC60947-4.



SC-03



SC-5-1



SC-1N



SMC-40/4



SMC-22/4

CODE		JG-SC-03	JG-SC-05	JG-SC-4-0	JG-SC-5-1	JG-SC-1N	JG-SC-2N	JG-SC-2SN	JG-SC-3N
Max.volume of motor	200-240V	2.5	3.5	4.5	5.5	7.5	11	15	18.5
	380-440V	4	5.5	7.5	11	15	18	22	30
	500-550V	4	5.5	7.5	11	15	18	25	37
	600-660V	4	5.5	7.5	7.5	11	15	22	30
Operating current AC3 (A)	200-240V	11	13	18	22	27	39	52	65
	380-440V	9	12	16	22	30	37	48	65
	500-550V	7	9	13	17	24	29	38	60
	600-660V	5	7	9	9	15	19	26	38
Rated heating current(A)		20	20	25	32	50	60	80	100
Aux-contact layout	Standard	1NO	1NO 1NC	1NO	1NO 1NC	2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC
	Other	1NC	2NC 2NC	1NC	2NO 2NC	4NO 4NC	4NO 4NC	4NO 4NC	4NO 4NC
Electrical Life (x 10 <sup>4</sup> )		200	200	500	200	200	300	200	100
MechanicalLife (x 10 <sup>4</sup> )		1000	1000	1000	1000	1000	1000	500	500

## JG-SMC SERIES AC CONTRACTOR

CODE		JG-SMC-9/4	JG-SMC-12/4	JG-SMC-18/4	JG-SMC-22/4	JG-SMC-32/4	JG-SMC-40/4	JG-SMC-50/4	JG-SMC-65/4	
Rated Power AC-C3 (KW/HP)	220-240V	2.5/3.5	3.5/4.7	4.5/6	5.5/7.5	7.5/10	11/15	15/20	18.5/25	
	380-440V	4/5.5	5.5/7.5	7.5/10	11/15	15/20	18.5/25	22/30	30/40	
	500-550V	4/5.5	5.5/7.5	7.5/10	11/15	15/20	18.5/25	22/30	30/40	
Rated Current AC-C3 (A)	220-240V	11	13	18	22	32	40	55	65	
	380-440V	9	12	18	22	32	40	50	65	
	500-550V	7	12	15	18	28	32	43	60	
Ith(A)		20	20	25	32	45	50	70	80	
(Ui) (V)		660	660	660	660	660	660	660	660	
Auxiliary Ccontact AC-15	Standard		Choose							
	Rated Current(	220V	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
		380V	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Ith (A)		16	16	16	16	16	16	16	16	
Electrical Life (x 10 <sup>4</sup> )		100	100	100	100	100	100	100	100	
MechanicalLife (x 10 <sup>4</sup> )		500	500	500	500	500	500	500	500	



## JG-3F SERIES AC CONTRACTOR

### APPLICATIONS

JG-3F series AC Contactors are suitable in electrical system with AC 50/60Hz, rated operational voltage up to 660V, In AC-3 usage, rated operational voltage up to 380V, rated operational current up to 630A to make or break remote motors or system. They can form electromagnetic starters with suitable thermal overload relays 3UA series to protect system and motors against overload or phase-failure. They are made according to IEC60947-4.

The contactor is a straight motion mechanism having double-breaking contacts. The auxiliary contacts are arranged 2NO, 2NC at most. It is employed the flexible locking connection between the contact support and core. There are no arc-isolated panel in the  $I_n \leq 22A$  contactors. In the  $I_n \geq 32A$  contactors, there are moulded arc-chute with arc-isolated panel. Because all contacts are made of high non-fusibility and against corrosion silver alloy. All series products can be mounted by screws,  $I_n \leq 32A$  contactor also by installation rail.



JG-3F40



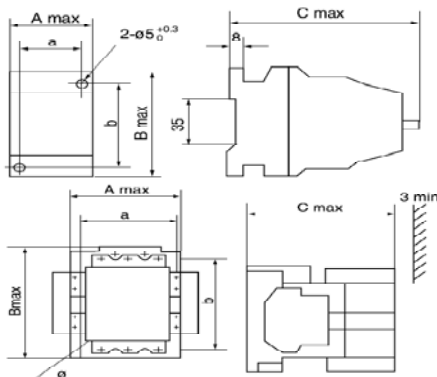
JG-3F50



JG-3F56

### SPECIFICATIONS

Type	Rated Thermal Current(A)	Rated operation current (A)		Controllable power of motor (KW)				Type of Auxiliary Contact
		380V	660V	AC-3		AC-4		
				380V	660V	380V	660V	
JG-3F30	20	9	3.33	1	5.5	1.4	2.4	NONC 1NO+1NC 2NO+2NC
JG-3F31	20	12	4.33	5.5	7.5	1.9	3.3	
JG-3F32	30	18	7.77	7.8	11	3.5	6	
JG-3F33	30	22	8.5	11	11	4	6.6	
JG-3F34	45	32	15.6	15	23	7.5	13	
JG-3F35	45	38	18.5	18.5	23	9	15.5	2NC+2NO 4NC+4NO
JG-3F40	20	12	4.3	5.5	7.5	1.9	3.3	
JG-3F41	20	9	3.3	4	5.5	1.4	2.4	
JG-3F42	30	16	7.7	7.5	11	3.5	6	
JG-3F43	30	22	8.5	11	11	4	6.6	
JG-3F44	45	32	15.6	15	23	7.5	13	
JG-3F45	45	38	18.5	18.5	23	9	15.5	
JG-3F46	70	45	24	22	39	12	20.8	
JG-3F47	70	63	28	30	55	14	24.3	
JG-3F48	90	75	34	37	67	17	29.3	
JG-3F49	90	85	42	45	67	21	36	
JG-3F50	150	110	54	55	100	27	46.9	
JG-3F51	150	140	68	75	100	35	60	
JG-3F52	180	170	75	90	156	38	66	
JG-3F53	220	205	96	110	156	50	86	
JG-3F54	300	250	110	132	235	58	100	
JG-3F55	300	300	125	160	235	66	114	
JG-3F56	400	400	150	200	375	81	140	



### DIMENSIONS

Current(A)	A max	B max	C max	a	b
9~12A	45	78.5	104(90)	35+0.31	60+0.37
16~22A	46	85	114	35+0.31	75+0.37
32A	74	85	108	50+0.31	75+0.37

Current(A)	A max	B max	C max	a	b	Φ
45~63A	91(114)	120	124	70+0.6	100+0.2	4.8
75~85A	102(125)	135	142	80+0.6	100+0.2	5.5
110~140A	122(145)	156	154	100+0.2	130+0.8	6.5
170~205A	140(163)	185	190	100+0.2	160+0.8	7
250~300A	150(173)	205	200	120+0.2	180+0.8	9
400A	165(188)	205	225	130+0.8	180+0.8	9



## JG-3H SERIES AUXILIARY CONTRACTORS



JG-3H30



JG-3H42



JG-3H80

### APPLICATIONS

The auxiliary contactors are suited by controlled circuit with voltage is AC 50/60Hz, 660V and DC 660V. They control all kinds of magnetic coil and amplify or transfer signal to relative controlled element simultaneously. They are characterized by high performance & long service life

### SPECIFICATIONS

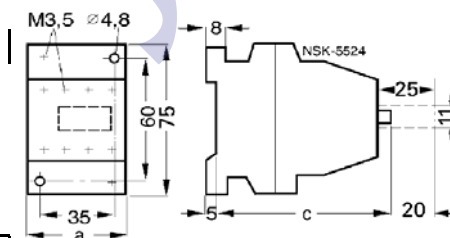
CODE		Type of contact	
		NO	NC
JG-3H30	40-OA	4	1
	31-OA	3	2
	22-OA	2	3
	13-OA	1	4
	04-OA	-	-
JG-3H40/ JG-3H80	40-OA	4	1
	31-OA	3	2
	22-OA	2	3
	13-OA	1	4
	04-OA	-	-
JG-3H42/ JG-3H82	80-OA	8	-
	71-OA	7	1
	62-OA	5	2
	53-OA	5	4
	44-OA	4	-

### TECHNICAL DETAILS

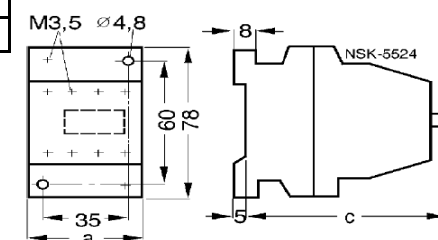
Rated Voltage	Rated operational current(A)		Controllable motor power AC3(KW)
	le=AC11, AC14	DC11	
110V	-	0.9	-
220V	10	0.45	2.2
380V	6	-	4
440V	-	0.25	4
660V	2	-	4

### DIMENSIONS

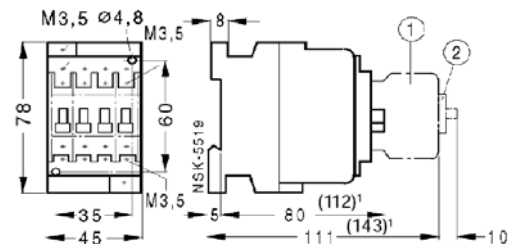
Code	a (mm)	c (mm)
JG-3H40/80	45	80
JG-3H42/82	45	95



JG-3H40/80



JG-3H42/82



JG-3H30



# THERMAL OVERLOAD RELAY

**JIGO®**

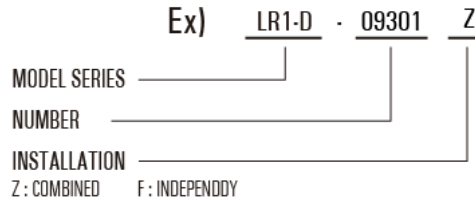
## JG-LR1-D THERMAL OVERLOAD RELAY

### APPLICATIONS

LR1-D series thermal relay is suitable for using in the circuits rated voltage up to 660V, rated current 80A, AC 50/60Hz, for over-current protection of AC motor. The relay has the differential mechanism and temperature compensation and can plug in LC1-D series AC contactor. The product conforms to IEC60947-4-1 standard.

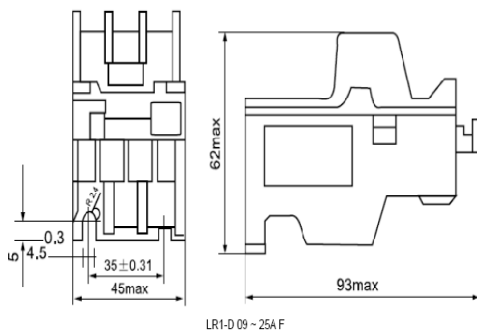


### MODEL REFERENCE

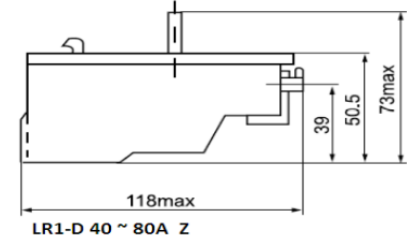
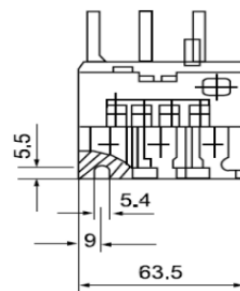


### SPECIFICATIONS

CODE	Setting range (A)	Applied Contactor
	0.1~0.16	LC1-D-09~25
	0.16~0.25	LC1-D-09~25
	0.25~0.4	LC1-D-09~25
	0.4~0.63	LC1-D-09~25
	0.63~1	LC1-D-09~25
	1~1.6	LC1-D-09~25
	1.6~2.5	LC1-D-09~25
	2.5~4	LC1-D-09~25
	4~6	LC1-D-09~25
	5.5~8	LC1-D-09~25
	7~10	LC1-D-09~25
	10~13	LC1-D-09~25
	13~18	LC1-D-09~25
	18~25	LC1-D-09~25
	23~32	LC1-D-09~25
	30~40	LC1-D-40, 50, 63
	38~50	LC1-D-40, 50, 63
	48~57	LC1-D-40, 50, 63
	57~66	LC1-D-40, 50, 63
	63~80	LC1-D-40, 50, 63



### DIMENSIONS



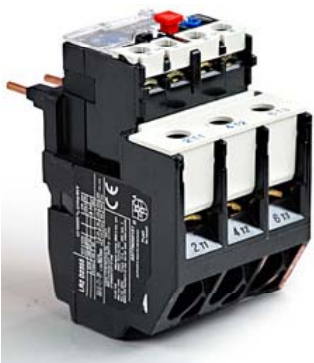
# THERMAL OVERLOAD RELAY

**JIGO®**

## JG-LR2-D THERMAL OVERLOAD RELAY



JG-LR2-D13



JG-LR2-D23



JG-LR2-D33

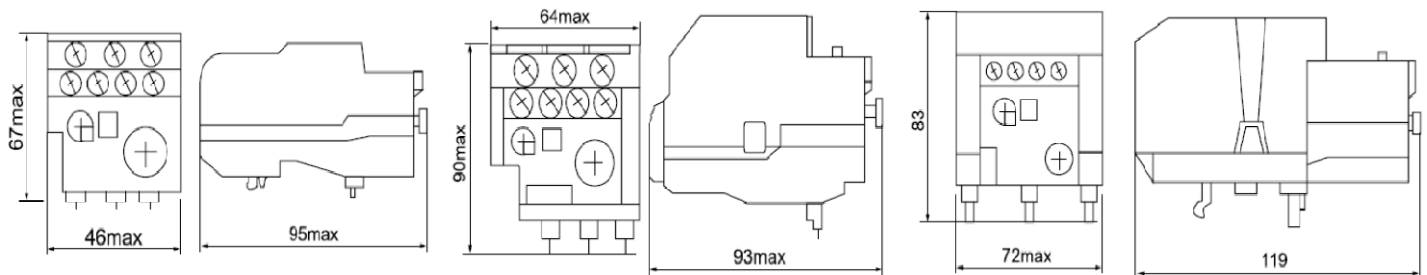
### APPLICATIONS

LR1-D series thermal relay is suitable for using in the circuits rated voltage up to 660V, rated current 80A, AC 50/60Hz, for over-current protection of AC motor. The relay has the differential mechanism and temperature compensation and can plug in LC1-D series AC contactor. The product conforms to IEC60947-4-1 standard.

### SPECIFICATIONS

CODE	Setting range (A)	Applied Contactor
JG-LR2-D13	0.1~0.16	LC1-D09~32
	0.16~0.25	LC1-D09~32
	0.25~0.4	LC1-D09~32
	0.4~0.63	LC1-D09~32
	0.63~1	LC1-D09~32
	1~1.6	LC1-D09~32
	1.6~2.5	LC1-D09~32
	2.5~4	LC1-D09~32
	4~6	LC1-D09~32
	5.5~8	LC1-D09~32
	7~10	LC1-D09~32
	9~13	LC1-D09~32
	12~18	LC1-D09~32
JG-LR2-D23	17~25	LC1-D32
	23~32	LC1-D09~32
	30~40	LC1-D09~32
JG-LR2-D33	17~25	LC1-D09~32
	23~32	LC1-D09~32
	30~40	LC1-D09~32
	37~50	LC1-D09~32
	48~65	LC1-D09~32
JG-LR2-D43	55~70	LC1-D09~32
	63~80	LC1-D09~32
	80~93	LC1-D95
	80~104	LC1-D95
	95~120	LC1-D95~115
	110~140	LC1-D115
	90~150	LC1-D150

### DIMENSIONS



JG-LR2-D13

JG-LR2-D23

JG-LR2-D33



## JG-LRD THERMAL OVERLOAD RELAY



JG-LRD-13



JG-LRD-23



JG-LRD-33

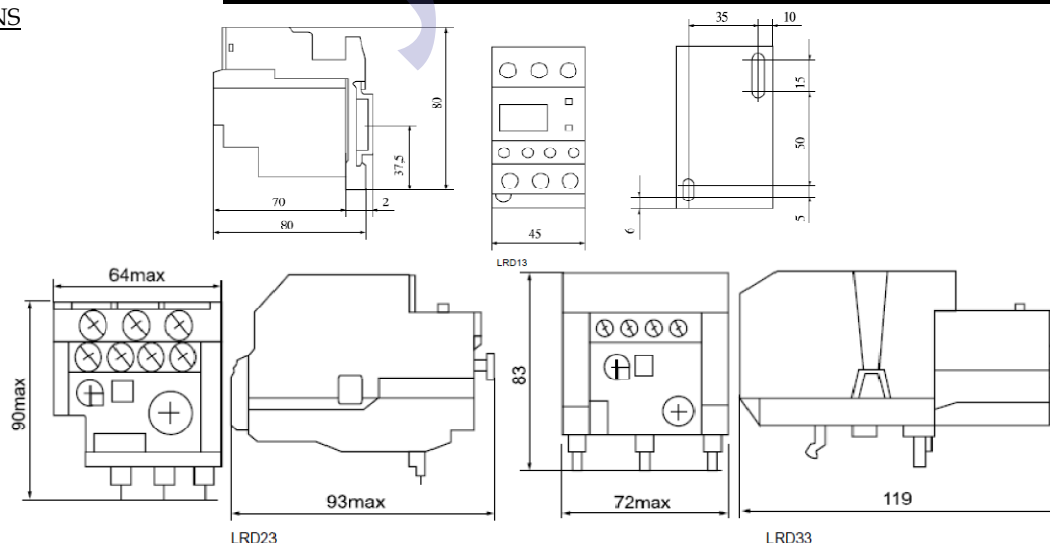
### APPLICATIONS

JG-LRD series thermal relay is suitable for using in the circuits rated voltage up to 660V, rated current 93A AC 50/60Hz, for over-current protection of AC motor. The relay has the differential mechanism and temperature compensation and can plug in LC1-D series AC contactor. The product conforms to IEC60947-4-1 standard.

### SPECIFICATIONS

CODE	Setting range (A)	Applied Contactor
JG-LRD-13	0.10~0.16	LC1-D-09~38
	0.16~0.25	LC1-D-09~38
	0.25~0.40	LC1-D-09~38
	0.40~0.63	LC1-D-09~38
	0.63~1	LC1-D-09~38
	1~1.7	LC1-D-09~38
	1.6~2.5	LC1-D-09~38
	2.5~4	LC1-D-09~38
	4~6	LC1-D-09~38
	5.5~8	LC1-D-09~38
	7~10	LC1-D-09~38
	9~13	LC1-D-09~38
	12~18	LC1-D-09~38
	16~24	LC1-D-09~38
30~38	LC1-D-09~38	
JG-LRD-23	23~32	LC1-D-25~32
	30~40	LC1-D-25~32
JG-LRD-33	17~25	LC1-D-40~95
	23~32	LC1-D-40~95
	30~40	LC1-D-40~95
	37~50	LC1-D-50~95
	48~65	LC1-D-50~95
	55~70	LC1-D-65~95
	63~80	LC1-D-65~95
	80~93	LC1-D-95

### DIMENSIONS





## JG-3UA THERMAL OVERLOAD RELAY



JG-3UA-50



JG-3UA-54



JG-3UA-58

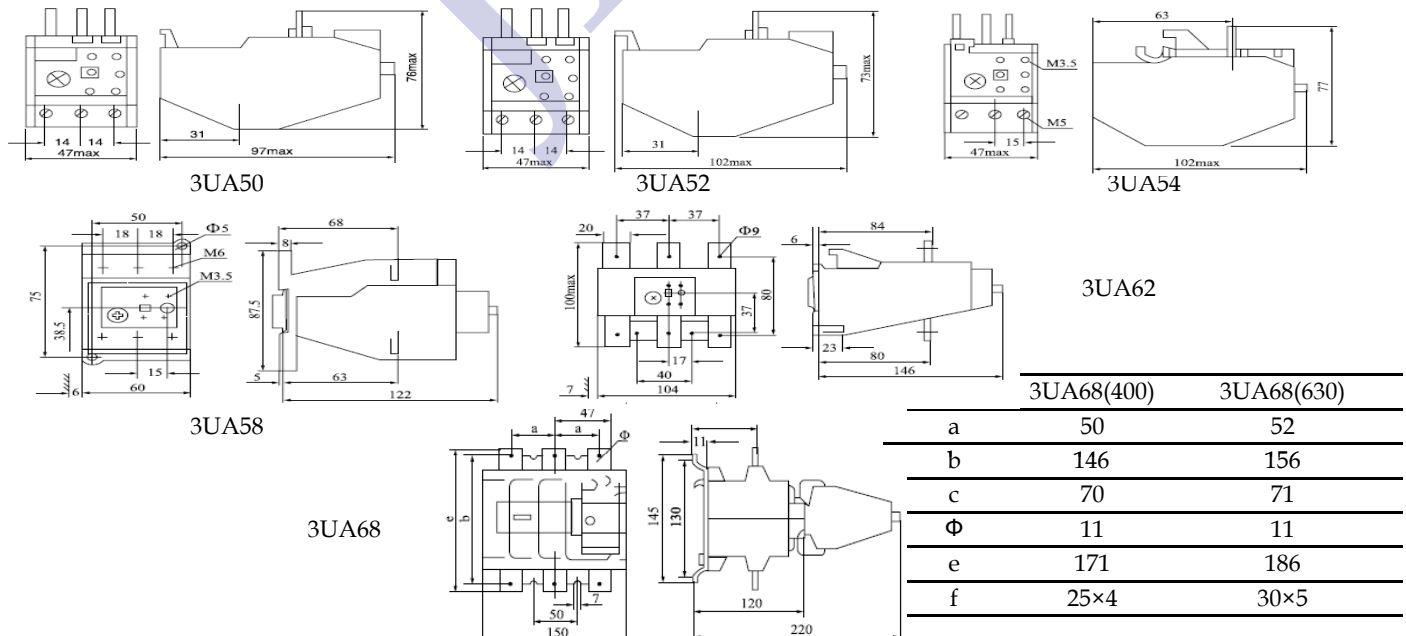
### APPLICATIONS

JG-3UA thermal relay is suitable for using in power system with AC 50Hz, rate operation voltage up to 660V and 1000V, in main circuit, current from 0.1A to 630A. It is used to protect AC three-phase asynchronous motor against overload and open-phase. The current setting value can be regulated and the setting current values of many thermal elements are intercrossing overlapping arrangement, for easy selecting by the customers from -25°C to +55°C air temperature as the products have temperature compensating. The relays have the test push-button for breaking NC contacts, the operating indications and free trip characteristics. The items conform with IEC60947-4.

### SPECIFICATIONS

CODE	Rated operating current (A)	Rated insulation voltage (V)	Current setting range (A)
JG-3UA-50	12.5	660	0.1~0.16, 0.16~0.25, 0.25~0.4, 0.32~0.63, 0.63~1.0, 0.8~1.25, 1.0~1.6, 1.25~2.0, 1.6~2.5, 2.0~3.2, 2.5~4.0, 3.2~5.0, 4.0~6.3, 5.0~8.0, 6.3~10.0, 8.0~12.5
JG-3UA-52	25	660	0.1~0.16, 0.16~0.25, 0.25~0.4, 0.4~0.63, 0.63~1.0, 0.8~1.25, 1.0~1.6, 1.25~2.0, 1.6~2.5, 2.0~3.2, 2.5~4.0, 3.2~5.0, 4.0~6.3, 5.0~8.0, 6.3~10.0, 8.0~12.5, 10.0~16.0, 12.5~20.0, 16.0~25.0
JG-3UA-55	32	660	4.0~6.3, 6.3~10.0, 10.0~16.0, 12.5~20.0, 16.0~25.0, 20.0~32.0, 25.0~36.0
JG-3UA-58	80	1000	16.0~25.0, 20.0~32.0, 25.0~40.0, 32.0~50.0, 40.0~57.0, 50.0~63.0, 57.0~70.0, 63.0~80.0
JG-3UA-62	180	660	55.0~80.0, 63.0~90.0, 80.0~110.0, 90.0~120.0, 110.0~150.0, 120.0~150.0, 135.0~160.0, 150.0~180.0
JG-3UA-68	630	1000	320.0~500.0, 400.0~630.0

### DIMENSIONS



## CHARACTERISTICS

CONTACTOR		AUXILIARY BLOCKS		RELATIVE PRODUCTS
	+	 Delay timer	→	 Time-delay contactor
	+	 Thermal relay	→	 Magnetic starter
	+	 Auxiliary block	→	 AC Contactor



## JG-LA1-D CONTACT BLOCK

### APPLICATIONS

JG-DN series auxiliary contactor blocks are mainly used in the circuit AC-15, 50Hz, rated voltage up to 380V, rated current up to 0.95A; or in the circuit DC-13, rated voltage up to DC220V, rated current up to 0.15A, which are installed at the top of control reply or LC1-D AC contactor for expanding the couples of auxiliary contacts points, Owing to adopting the contacting functions of sliding friction, the item can be self-cleaning & ensuring the electric circuit to be reliable.



JG-DN11



JG-DN22

### SPECIFICATIONS

CODE	Type Of Contact	Rated Insulated Voltage(V)	Conventional Thermal Current(A)	Rated Control Capacity	Rated Working Current (A)	Operating Frequency (times/h)	Mechanical Life (10 <sup>4</sup> )	Electric Life (10 <sup>4</sup> )
JG-DN11	NO + NC	690V	10A	AC-15 360VA DC-13 33(W)	AC-15 380V 0.95A DC-13 220V 0.15A	3600	1000	100
JG-DN20	2NO							
JG-DN02	2NC							
JG-DN22	2NO + 2NC							
JG-DN13	NO + 3NC							
JG-DN31	3NO + NC							
JG-DN40	4NO							
JG-DN04	4NC							

## AIR TIME DELAY CONTACT

### APPLICATIONS

JG-DT timer delay auxiliary contact blocks are combined with LC1-D AC contactor & LA1-D auxiliary contact block into LC3-D star delta reduced voltage starter to start motor.



### SPECIFICATIONS

CODE	Delay Range	No. Of Delay Contacts
JG-DT2	0.1~30s	NO+NC
JG-DT4	10~180s	NO+NC

## JG-3TX-4010/4001 AUXILIARY CONTACT



### APPLICATIONS

The products are suitable for using in the controlling circuits up to rate voltage A.C.660V or D.C.660V 50Hz or 60Hz,for controlling various electromagnetic coils to increase signal or transfer signal to relative controlling elements.



# MOTOR PROTECTION CIRCUIT BREAKER (MPCBs)

## JG-3VU SERIES MOTOR PROTECTION CIRCUIT BREAKER (MPCBs)

### APPLICATIONS

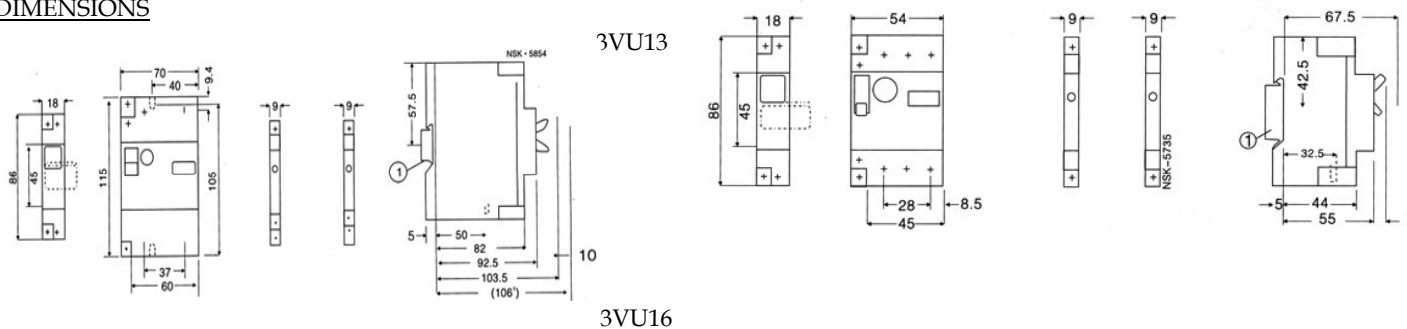
JG-3VU Series Motor Protection Circuit Breaker are applicable for the circuit of AC 50/60Hz, Rated insulation voltage 750V, Rated operating voltage up to 660V, Rated operation current from 0.1A ~ 63A, They are used for protecting motors against overload, short-circuit and phase-failure, They can also be used for starting and stopping starters for motors, and for the circuit protection in the circuit of 0.1 ~ 63A.

### SPECIFICATIONS



CODE	Rated current (A)	Motor output (kW)	Setting Range (A)		Weight (kg)
			Thermal overload releases	Instantaneous overcurrent releases	
JG-3VU13	0.16	-	0.1-0.16	1.9	0.29
	0.24	0.06	0.16-0.24	2.9	
	0.4	0.09/0.12	0.24-0.4	4.8	
	0.6	0.12/0.18	0.4-0.6	7.2	
	1	0.25	0.6-1	12	
	1.6	0.37/0.55	1-1.6	19	
	2.4	0.75	1.6-2.4	29	
	3.2	1.1	2-3.2	38	
	4	1.1/1.5	2.4-4	48	
	5	1.5/2.2	3.2-5	60	
	6	2.2	4-6	72	
	8	3	5-8	96	
	10	3/4	6-10	120	
	13	4/5.5	8-13	156	
	16	7.5	10-16	190	
20	7.5	14-20	240		
25	11	18-25	300		
JG-3VU16	1.6	0.37/0.55	1-1.6	19	0.76
	2.4	0.75	1.6-2.4	29	
	4	1.1/1.5	2.4-4	48	
	6	2.2	4-6	72	
	10	3/4	6-10	120	
	16	5.5/7.5	10-16	190	
	25	11	16-25	300	
	32	15	22-32	380	
	40	18.5	28-40	480	
52	22	36-52	600		
63	-	45-63	600		

### DIMENSIONS



# MOTOR PROTECTION CIRCUIT BREAKER (MPCBs)

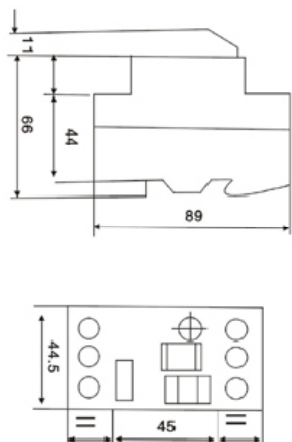
## JG-GV2 SERIES MOTOR PROTECTION CIRCUIT BREAKER (MPCBs)



### APPLICATIONS

GV2) Series motor protecting breaker are mainly used for the overload and shortcircuit protection of the motor in AC 50/60Hz, up to 660V, 0.1-80A power circuit, as a full-voltage starter to start and cut off the motor, under the AC3 load or for the overload and shortcircuit protection of the circuit and power equipment in the power distribution network.

### SPECIFICATIONS



CODE	Rated standard power of 3-phase motors 50/60Hz in category AC-3						Setting range (A)
	220V	380V	415V	440V	500V	660V	
	KW	KW	KW	KW	KW	KW	
JG-GV2-M01	--	--	--	--	--	--	0.1-0.16
JG-GV2-M02	--	--	--	--	--	--	0.16-0.25
JG-GV2-M03	--	--	--	--	--	--	0.25-0.4
JG-GV2-M04	--	--	--	--	--	0.37	0.4-0.63
JG-GV2-M05	--	--	--	0.37	0.37	0.55	0.63-1
JG-GV2-M06	--	0.37	--	0.55	0.75	1.1	1-1.6
JG-GV2-M07	0.37	0.75	0.75	1.1	1.1	1.5	1.6-2.5
JG-GV2-M08	0.75	1.5	1.5	1.5	2.2	3	2.5-4
JG-GV2-M10	1.1	2.2	2.2	3	3.7	4	4-6.3
JG-GV2-M14	2.2	4	4	4	5.5	7.5	6-10
JG-GV2-M16	3	5.5	5.5	7.5	7.5	9	9-14
JG-GV2-M20	4	7.5	9	9	9	11	13-18
JG-GV2-M21	5.5	11	11	11	11	15	17-23
JG-GV2-M22	5.5	11	11	11	15	18.5	20-25
JG-GV2-M32	7.5	15	15	15	18.5	26	24-32

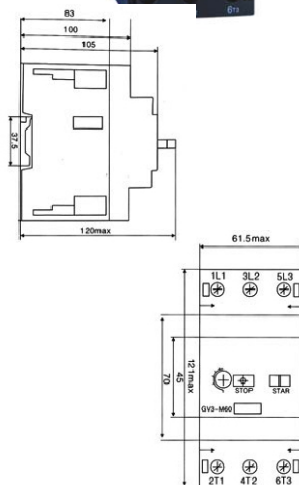
## JG-GV3 SERIES MOTOR PROTECTION CIRCUIT BREAKER (MPCBs)



### APPLICATIONS

GV3 Motor Circuit Breaker) is applied to control the overload, phase-broken, short-circuit protection and non-frequent start of three-phase squirrel-cage a synchronous electromotor in the circuit with max AV 690 and 1A- 80A current, and is used as distribution line protection and non frequent overload conversion, and is also used as the isolator.

### SPECIFICATIONS



CODE	Rated standard power of 3-phase motors 50/60Hz in category AC-3						Setting range (A)
	220V	380V	415V	440V	500V	660V	
	KW	KW	KW	KW	KW	KW	
JG-GV3-M06	--	0.37	--	0.55	0.75	1.1	1-1.6
JG-GV3-M07	0.37	0.75	1.1	1.1	1.1	1.5	1.6-2.5
JG-GV3-M08	0.75	1.5	1.5	1.5	2.2	3	2.5-4
JG-GV3-M10	1.1	2.2	2.2	3	3.7	4	4-6
JG-GV3-M14	2.2	4	4	4	5.5	7.5	6-10
JG-GV3-M20	4	7.5	7.5	7.5	10	11	10-16
JG-GV3-M25	5.5	11	11	11	15	18.5	16-25
JG-GV3-M40	11	18.5	22	22	25	33	25-40
JG-GV3-M63	15	30	33	33	40	55	40-63
JG-GV3-M80	22	40	45	45	55	63	56-80

