

BAC9 Series AC Contactor

► APPLICATION

BAC9 series AC contactor is suitable for using in the circuits up to the rated voltage 660V AC 50Hz or 60Hz, rated current up to 95A, for making, breaking, frequently starting & 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 Contactor is produced according to IEC947-2.

► SPECIFICATIONS

Type		BAC9-09	BAC9-12	BAC9-18	BAC9-25	BAC9-32
Rated operation current(A)	AC-3	9	12	18	25	32
	AC-1	3.5	5	7.7	8.5	12
AC3-capacity of phase 3 squirrel-cage motor AC3(kw)	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
	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 heat current(A)		20	20	32	40	50
Electrical life	AC4 × 10 ⁴	20	20-15	20-7	15-7	15-7
	AC3 × 10 ⁴	2	2	2	2	2
Mechanical life × 10 ⁵		20	20	20	20	20
Number of the contacts		3P+NO				
		3P+NC				

Type		BAC9-40	BAC9-50	BAC9-65	BAC9-80	BAC9-95
Rated working current(A)	AC3	40	50	65	80	95
	AC4	18.5	24	28	37	44
AC3 capacity of phase 3 squirrel-cage motor AC3(kw)	220/230V	11	15	18.5	22	25
	380/400V	18.5	22	30	37	45
	415V	22	25	37	45	45
	440V	22	30	37	45	45
	500V	22	30	37	55	55
	660/690V	30	33	37	45	45
Rated heat current(A)		60	80	80	125	125
Electrical life	AC4 × 10 ⁴	10-7	7	7-6	7-5	7-5
	AC3 × 10 ⁴	2	2	1.6	1.6	1.6
Mechanical × 10 ⁵		20	20	20	10	10
Number of the contact		3P+NC+NO				

► STANDARD CONTROL CIRCUIT VOLTAGES

Volts (VAC)	24	42	48	110	220/230	230	240	380/400	400	415	440	500	660
50Hz	B5	D5	E5	F5	M5	P5	U5	Q5	V5	N5	R5	S5	Y5
60Hz	B6	D6	E6	F6	M5	-	U6	Q6	-	-	R6	-	-
50/60Hz	B7	D7	E7	F7	M7	P7	U7	Q7	V7	N7	R7	-	-





BAC9-F Series AC Contactor

► APPLICATION

BAC9-F series AC Contactor is applicable to the circuits up to the rated voltage 1000V AC 50Hz or 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 distribution circuits of rated current from 200A to 1600A. The product is in compliance with IEC/EN 60947-2.

► SPECIFICATIONS

Type		BAC9-F115	BAC9-F150	BAC9-F185	BAC9-F225	BAC9-F265
Rated operation current(A)	AC-3	115	150	185	225	225
	AC-1	200	250	275	315	350
Standard power ratings of 3-phase motors AC-3(KW)	220/230V	30	40	55	63	75
	380/400V	55	75	90	110	132
	415V	59	80	100	110	140
	440V	59	80	100	110	140
	500V	75	90	110	129	160
	660/690V	80	100	110	129	160
	1000V	65	65	100	100	147

Type		BAC9-F330	BAC9-F400	BAC9-F500	BAC9-F630	BAC9-F780
Rated operation current(A)	AC-3	330	400	500	630	780
	AC-1	400	500	700	1000	1600
Standard power ratings of 3-phase motors AC-3(KW)	220/230V	100	110	147	200	220
	380/400V	160	200	250	335	400
	415V	180	200	280	375	425
	440V	200	250	295	400	425
	500V	200	257	355	400	450
	660/690V	200	280	335	450	475
	1000V	160	185	335	450	450

GMC Series AC Contactor

TECHNICAL SPECIFICATION

Type				GMC-9	GMC-12	GMC-18	GMC-22	GMC-32	GMC-40
IEC-60947	AC1 duty			20A	20A	25A	32A	50A	60A
	AC3 duty	200~240V	2.5KW 11A	3.5KW 13A	4.5KW 18A	5.5KW 22A	7.5KW 32A	11KW 40A	
		380~440V	4KW 9A	5.5KW 12A	7.5KW 18A	11KW 22A	15KW 32A	18.5KW 40A	
		500~550V	4KW 7A	7.5KW 12A	7.5KW 13A	15KW 22A	18.5KW 28A	22KW 32A	
		690V	4KW 5A	7.5KW 9A	7.5KW 9A	15KW 18A	18.5KW 21A	22KW 25A	
UL	Continuous current(th)			20A	25A	30A	32A	45A	50A
	AC Motor	single phase	115V	0.5HP	0.5HP	1HP	2HP	2HP	3HP
			230V	1HP	2HP	3HP	3HP	5HP	5HP
		Three phase	200V	2HP	3HP	5HP	7HP	7.5HP	10HP
			230V	2HP	3HP	5HP	7.5HP	10HP	10HP
			460V	5HP	7.5HP	10HP	10HP	20HP	25HP
			575V	7.5HP	10HP	15HP	15HP	20HP	25HP
Aux.contact	Side mounting		AU-1	AU-1	AU-1	AU-1	AU-1	AU-1	
	Top mounting		AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	
Panel installation				Rail & Screw					
External Dimension(mm)(W×H×D)				44×80×86.8				68×82×94.6	
Type				GMC-50	GMC-65	GMC-75	GMC-85	GMC-100	GMC-125
IEC-60947	AC1 duty			80A	100A	110A	135A	150A	150A
	AC3 duty	200~240V	15KW 55A	18.5KW 65A	22KW 75A	25KW 85A	30KW 105A	35KW 125A	
		380~440V	22KW 50A	30KW 65A	37KW 75A	45KW 85A	55KW 105A	60KW 120A	
		500~550V	30KW 43A	37KW 60A	45KW 64A	45KW 75A	55KW 85A	60KW 90A	
		690V	30KW 33A	37KW 47A	45KW 47A	45KW 52A	55KW 65A	60KW 70A	
UL	Continuous current(th)			70A	80A	90A	100A	160A	160A
	AC Motor	single phase	115V	3HP	5HP	5HP	7.5HP	7.5HP	10HP
			230V	7.5HP	10HP	15HP	15HP	15HP	20HP
		Three phase	200V	10HP	15HP	20HP	25HP	30HP	40HP
			230V	15HP	20HP	25HP	30HP	30HP	40HP
			460V	30HP	40HP	50HP	50HP	60HP	75HP
			575V	30HP	40HP	50HP	50HP	60HP	75HP
Aux.contact	Side mounting		AU-1	AU-1	AU-1	AU-1	AU-100	AU-100	
	Top mounting		AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	AU-2,AU-4	-	-	
Panel installation				Rail & Screw				Screw	
External Dimension(mm)(W×H×D)				94×123.5×117.4				100×157.4×146.5	



GMC 9-22



GMC 32-40



GMC 50-85



GMC 100-125



GMC Series Thermal Relay

APPLICATION

For Protect the motors, Locking, Open phase(differential)

CHARACTERISTICS

● Direct mounting structure

The TOR is mounting directly to the Magnetic Contactors without additional brackets.
(Applied model: GTH-22, 40, 85)

● Safety cover

The finger proof safety cover prevent careless touch of electric conductor(Applied model: GTH-22, 40, 85)

● Separation of power part and operation part

The main circuit and the operation part are separately designed and the operation part is commonly used in GTH-22, 40, 85

● Easy operation



GTH-22



GTH-40



GTH-85

TYPES AND RATINGS

Ratings	Type	GTH-22			GTH-40			GTH-85		
	Nominal current	Ranges			Ranges			Ranges		
		Min.	Mid.	Max.	Min.	Mid.	Max.	Min.	Mid.	Max.
Rated current(A)	0.14	0.1	0.14	0.16						
	0.21	0.16	0.21	0.25						
	0.33	0.25	0.33	0.4						
	0.52	0.4	0.52	0.63						
	0.82	0.63	0.82	1						
	1.3	1	1.3	1.6						
	2.1	1.6	2.1	2.5						
	3.3	2.5	3.3	4						
	5	4	5	6	4	5	6			
	6.5	5	6.5	8	5	6.5	8			
	7.5	6	7.5	9	6	7.5	9			
	8.5	7	8.5	10	7	8.5	10	7	8.5	10
	11	9	11	13	9	11	13	9	11	13
	15	12	15	18	12	15	18	12	15	18
	19	16	19	22	16	19	22	16	19	22
	22				18	22	26	18	22	26
	30				24	30	36	24	30	36
	34				28	34	40	28	34	40
	42							34	42	50
	55							45	55	65
	65							54	65	75
	74							63	74	85
Element No.	2heaters	Standard			Standard			Standard		
	3heaters	option			option			option		
Aux.contact		1NO1NC			1NO1NC			1NO1NC		
Reset type		Auto/Manual			Auto/Manual			Auto/Manual		
Power consumption		1.8VA/heater			2.0VA/heater			3.5VA/heater		
Dimension(mm) (W × H × D)		44×63×90			53×67×90			70×73×103		
Separate mounting unit		AZ-22H			AZ-40H			AZ-85H		
Other model	3heaters	GTH-22/3			GTH-40/3			GTH-85/3		
	Differential	GTK-22			GTK-40			GTK-85		
	Delay open	GTH-22/L			GTH-40/L			GTH-85/L		
Applied contactors		GMC-9,12,18,22			GMC-32,40			GMC-50,65,75,85		
Applied switches		GMS-9,12,18,22			GMS-32,40			GMS-50,65,75,85		



BAC91 Series DC Contactor

► SPECIFICATIONS



Type	Rated working currentA IeA (AC-3)	Rated heat current Ith(A)	Rated work- ing voltage Ue A	Rated insulat- ing voltage Ui A	Controlled Power(KW)					Electri- cal life (AC-3) 104	Con- tacts Num- ber		
					220V	380V	415V	440V	660V				
BAC91-09	9	20	380V	660V	2.2	4	4	4	5.5	660V	3P+NO		
BAC91-12	12	20			3	5.5	5.5	5.5	7.5			3P+NO	
BAC91-18	18	32			4	7.5	9	9	9				3P+NO
BAC91-25	25	40			5.5	11	11	11	15				
BAC91-32	32	50	7.5		15	15	15	18.5		3P+NO			
BAC91-40	40	60	11		18.5	22	22	30			3P+NO		
BAC91-50	50	80	15		22	25	30	33				+NC	
BAC91-65	65	80	18.5		30	37	37	37					+NC
BAC91-80	80	125	22		37	45	45	45		+NC			
BAC91-95	95	125	25		45	45	45	45			+NC		



BAC92 Mechanical Interlocking Contactor

► SPECIFICATIONS



Type	Rated current AC-3(A)	Controlled power(KW)				
		220V	380V	415V	440V	660V
BAC92-0901	9	2.2	4	4	4	5.5
BAC92-1201	12	5.5	5.5	5.5	5.5	7.5
BAC92-1801	18	7.5	7.5	9	9	10
BAC92-2501	25	5.5	11	11	11	15
BAC92-3201	32	7.5	15	15	15	18.5
BAC92-4011	40	18.5	18.5	22	22	30
BAC92-5011	50	15	22	25	25	33
BAC92-6311	63	18.5	30	37	37	37
BAC92-8011	80	22	37	45	45	45
BAC92-9511	95	22	45	45	45	41
BAC92-F115	115	30	55	55	67	80
BAC92-F150	150	37	67	67	90	110
BAC92-F185	185	55	90	90	110	147
BAC92-F225	225	75	110	110	160	180
BAC92-F330	330	90	160	160	200	270
BAC92-F400	400	110	200	200	250	340
BAC92-F500	500	147	250	250	335	400
BAC92-F630	630	200	335	335		450





MSC9 Magnetic Starter

► APPLICATION

MSC9 magnetic starter is mainly applied to a circuit of AC 50 or 60Hz, voltage up to 550V for far distance making and breaking circuit and frequent start and control motor. It has the features of small volume, light weight, low power consumption, high efficiency, safe and reliable performance etc.

► SPECIFICATIONS

Maximum power AC3 duty(KW)						Rated current (A)	Type of enclosure	Code Number		Suitable Thermal Relay(A)
220V 230V	380V 400V	415V	440V	500V	660V 690V			LL (long life)	NL(3) (normal life)	
1.1	2.2	22	22	-	-	6	-	-	BAC9 EC135	BAC9 EC135
2.2	4	4	4	5.5	5.5	9	IP42 IP65	BAC9 094... BAC9 093...	- -	BAC9 1312 BAC9 1314
3	5.5	5.5	5.5	7.5	7.5	12	IP42 IP65	BAC9 124... BAC9 123...	BAC9 094... BAC9 093...	BAC9 1316
4	7.5	9	9	10	10	18	IP42 IP65	BAC9 188... BAC9 185...	BAC9 124... BAC9 123...	BAC9 1321
5.5	11	11	11	15	15	25	IP42 IP65	BAC9 258... BAC9 255...	BAC9 188... BAC9 185...	BAC9 1322 BAC9 2353
7.5	15	15	15	18.5	18.5	32	IP55	BAC9 325...	BAC9 255...	BAC9 2355
11	18.5	22	22	22	30	40	IP55	BAC9 405...	BAC9 325...	BAC9 3353 BAC9 3355
15	22	25	30	30	33	50	IP55	BAC9 505...	BAC9 405...	BAC9 3357 BAC9 3359
18.5	30	37	37	37	37	65	IP55	BAC9 655...	BAC9 505...	BAC9 3361
22	37	45	45	55	45	80	IP55	BAC9 805...	BAC9 655...	BAC9 3363 BAC9 3365
25	45	45	45	55	45	95	IP55	BAC9 955...	BAC9 805...	BAC9 3365

Enclosure	MSC9-09 and 12	Double insulated, protected to IP 429 (3) or to IP 659(4)
	MSC9-18 and 25	Double insulated, protected to IP 427 (3) or to IP 557(4)
	MSC9-32...25	Metal, IP55 to IP559
Control(2 pushbuttons mounted on enclosure cover)	MSC9-09...95	1 green Start button "I" 1 red Stop/Reset button "O"
Connections	MSC9-09...95	Pre-wired power and control circuit connections
Standard control circuit voltages		
Volts	24 42 48 110 220/230 230 240 380/400 400 415 440	
50/60Hz	B7 D7 E7 F7 M7 P7 U7 Q7 V7 N7 R7	



BAR2 Thermal Relay

► APPLICATIONS

This series of thermal relay can be used in the circuit of 50Hz or 60Hz, rated insulation voltage 660V, rated current 0.1-96A for protecting the phase break when the electric motor is overload. The relay has different mechanism and temperature compensation & can be plugged in BAC9 series AC contactor. Compliance with IEC60947-5.

► CHARACTERISTICS

A.Fundamental parameter of the main circuit

- (a).Rated insulation voltage 660V.
- (b).Rated working current 25,36,93A separately.
- (c).The regulator seal of rated setting current and setting.
- (d).Current of the thermal component(see Table below)

B.Auxiliary Circuit

- (a).There is one pair of NO/ and N/C contact with electric insulation.
- (b).Rated insulation voltage 500V.
- (c).Rated frequency 50-60Hz.

► SPECTFICATIONS

Type	Rated working current of thermal relay	Thermal component	
		Rated current (A)	Current setting range
BAR2-D13	25	BAR2-D 1301	0.16
		1302	0.25
		1303	0.40
		1304	0.63
		1305	1.0
		1306	1.6
		13x6	2.0
		1307	2.5
		1308	4.0
		1310	6.0
		1312	8.0
		1314	10.0
		1316	13.0
		1321	18.0
		1322	25.0
BAR2-D23	36	BAR2-D 2353	32
		2355	36
BAR2-D33	93	BAR2-D 3353	32
		3355	40
		3357	50
		3359	65
		3361	70
		3363	90
		3365	93

BAC8 Series AC Contactor

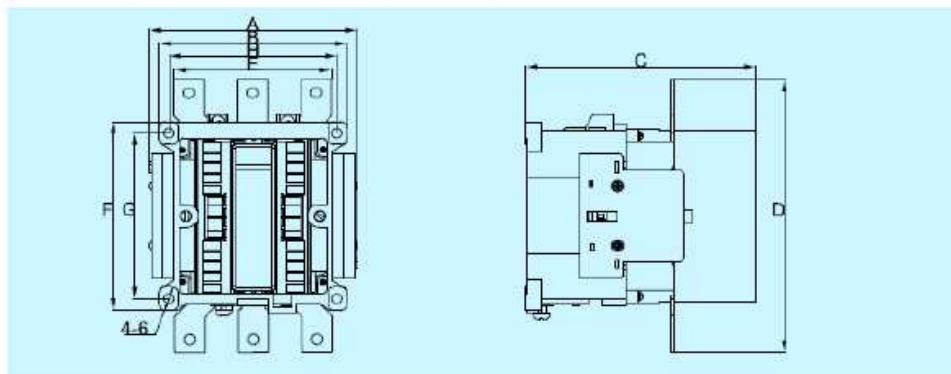
► APPLICATION

BAC8 Series AC contactor is applicable to a circuit of AC 50/60, rated voltage up to 660v and rated current up to 160A, used for the making and breaking of a circuit in power distribution system. It can also be in combination with proper thermal relay or electronic protection device, used as motor starter to protect a circuit from overload.

The product is in compliance with the standards IEC 60947-4-1.

► TECHNICAL DATA

Contactor type			BAC8-100	BAC8-160
Rated insulation voltage U_i			690V	690V
Rated free air thermal current I_{th}			125A	250A
Max. power for controlled squirrel-caged 3-phase motor (AC-3)			125	250
Operation cycles (AC-3)			1200 times/h	1200 times/h
Electric life			120×10^5	120×10^5
Fuse Type			RT16-160	RT16-250
Auxiliary contact	Rated insulation voltage U_i		690V	690V
	Rated conventional thermal current I_{th}		10A	10A
	Rated operational voltage	AC	380V	220V
		DC	220V	110V
	Rated operational current	AC	0.08A	1.4A
		DC	0.07A	0.6A
	Rated control capacity	AC	AC-15 300W	
		DC	DC-13 60W	
			2NO 2NC	



Type	A	B	C	D	F	F	G	H
160A	124	112	138	165	95	114	100	100
250A	142	135	161.5	184	96	145	125	125



Patent Protected



GMW Magnetic Starter

GMW Magnetic starter is mainly applied to circuit of AC 50Hz, VOLTAGE UP TO 550V FOR far distance making and breaking circuit and frequently starting and controlling motor. It has the features of small volume, light weight, low power consumption, high efficiency, safe and reliable performance etc.



Type	Maximum power			Rated current			AC1
	AC3 duty			AC3 duty			Duty
	220-220V	380-440V	500-550V	220-220V	380-440V	500-550V	A
GMW-9B	2.5	4	4	11	9	7	20
GMW-12B	3.5	5.5	7.5	13	12	12	20
GMW-18B	4.5	7.5	7.5	18	18	13	25
GMW-22B	5.5	11	15	22	22	22	32
GMW-32B	7.5	15	18.5	32	32	28	50
GMW-40B	11	18.5	22	40	40	32	60
GMW-50B	15	22	30	55	50	43	80
GMW-65B	18.5	30	37	65	65	60	100
GMW-75B	22	37	45	75	75	64	110
GMW-85B	25	45	45	85	85	75	135



3TF Series AC Contactor

■ TECHNICAL SPECIFICATION

Type	Rated Thermal current (A)	Rated operation current(A)		Controllabe power of motor(KW)				Type of Auxiliary contact
				AC-3		AC-4		
		380V	660V	380V	660V	380V	660V	
3TF30	20	9	7	4	5.5	1.4	2.4	NO NC 1NO+1NC 2NO+2NC
3TF31	20	12	8.5	5.5	7.5	1.9	3.3	
3TF32	30	16	12.5	7.5	11	3.5	6	
3TF33	30	22	16.5	10	15	4	6.6	
3TF34	55	32	24	15	22	7.5	13	
3TF35	55	38	30	18.5	22	9	15.5	
3TF40	20	9	7	4	5.5	1.4	2.4	
3TF41	20	12	8.5	5.5	7.5	1.9	3.3	
3TF42	30	16	12.5	7.5	11	3.5	6	
3TF43	30	22	16.5	10	15	4	6.6	
3TF44	55	32	24	15	22	7.5	13	
3TF45	55	38	30	18.5	22	9	15.5	
3TF46	80	45	40	22	37	12	20.8	2NC+2NO 2NC+4NO
3TF47	80	63	60	30	55	14	24.3	
3TF48	100	75	60	37	55	17	29.5	
3TF49	100	85	80	45	75	21	36	
3TF50	160	110	95	55	90	27	46.9	
3TF51	160	140	120	75	110	35	60	
3TF52	200	170	160	90	150	38	66	
3TF53	210	205	165	110	160	50	86	
3TF54	300	250	230	132	220	58	100	
3TF55	300	300	260	160	250	66	114	
3TF56	400	400	380	200	355	81	140	
3TF68	630	630	600	335	560	160	278	



3TF30/31



3TF32/33



3TF34/35



3TF-40



3TF-44



3TF-50



3TH 3TB 3TD Series AC Contactor

■ SPECIFICATIONS

Type	Rated thermal current (A)	Rated operating current at 380V(A)	Rated operating current at 660V(A)	The power of controlled motor(KW)		Type of auxiliary contact
				380V	660V	
3TB40	22	9	7.2	4	5.5	1NO
3TB41	22	12	9.5	5.5	7.5	1NC
3TB42	35	16	13.5	7.5	11	1NO+1NC
3TB43	35	22	13.5	11	11	2NO+2NC
3TB44	55	32	18	15	15	2NC+2NO

■ SPECIFICATIONS

Type	Rated thermal current (A)	Rated operation current (A)		Controllable power of motor (KW)			
				AC-3		AC-4	
		380V	660V	380V	660V	380V	660V
3TD40	20	9	7	4	5.5	1.4	2.4
3TD41	20	12	8.5	5.5	7.5	1.9	3.3
3TD42	30	16	12.5	7.5	11	3.5	6
3TD43	30	22	16.5	10	15	4	6.6
3TD44	55	32	24	15	22	7.5	13
3TD45	55	38	24	18.5	22	9	15.5
3TD46	80	45	40	22	37	12	20.8
3TD47	80	63	60	30	55	14	24.3
3TD48	100	75	60	37	55	17	29.5
3TD49	100	85	80	45	75	21	36
3TD50	160	110	95	55	90	27	46.9
3TD51	160	140	120	75	110	35	60
3TD52	200	170	160	90	150	38	66
3TD53	210	205	165	110	160	50	86
3TD54	300	250	230	132	220	58	100
3TD55	300	300	260	160	250	66	114
3TD56	400	400	380	200	355	81	140
3TD58	630	630	600	335	560	160	278



3TH-80



3TB-44



3TD-50



3TF56/57



3TF52/53



3TF54/55



3UA Series Thermal Relay

Application

3UA thermal relay is suitable for using in power system with AC 50Hz, rated 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 to IEC60947-4.



Specifications

Type	Rated operating current(A)	Rated insulation voltage(V)	Current setting range(A)
3UA50	12.5	660	0.1~0.16, 0.16~0.25, 0.25~4, 0.32~0.63, 0.63~0.1, 0.8~1.25, 1~1.6,
			1.25~2, 1.6~2.5, 2~3.2, 2.5~4, 3.2~5, 4~6.3, 5~8, 6.3~10, 8~12.5,
3UA52	25	660	0.1~0.16, 0.16~0.25, 0.25~0.4, 0.4~0.63, 0.63~1, 0.8~1.25, 1~1.6, 1.25~2, 1.6~2.5
			2~3.2, 2.5~4, 3.2~5, 4~6.3, 5~8, 6.3~10, 8~12.5, 10~16, 12.5~20, 16~25,
3UA54	32	660	4~6.3, 6.3~10, 10~16, 12.5~20, 16~25, 20~32,
3UA58	80	1000	16~25, 20~32, 25~40, 32~50, 40~57, 50~63, 57~70, 63~80,
3UA59	63	600	0.1~0.16, 0.16~0.25, 0.25~0.4, 0.4~0.63, 0.63~1, 0.8~1.25, 1~1.6,
			1.25~2, 1.6~2.5, 2~3.2, 2.5~4, 3.2~5, 4~6.3, 5~8, 6.3~10, 8~12.5,
			10~16, 12.5~20, 16~25, 20~32, 25~40, 32~45, 40~57, 50~63,
3UA62	180	660	55~80, 63~90, 80~110, 90~120,
			110~135, 120~150, 135~160, 150~180,
3UA66	400	1000	80~125, 125~200, 180~250, 200~320, 250~400,
3UA68	630	1000	320~500, 400~630,



3RT Series AC Contactor

SPECIFICATIONS

Rated current	TYPE	Voltage
S00 9A	3RT1016-1AB01 3RT1016-1AK61 3RT1016-1AR11 CON(1NA+ONC)	24 120 220 440
S0 25 A	3RT1026-1AB60 3RT1026-1AN20 3RT1026-1AR10	120 220 440
S2 32 A	3RT1034-1AJ16 3RT1034-1AN16 3RT1034-1AR16	115 220 440
S2 50 A	3RT1036-1AJ16 3RT1036-1AN16 3RT1036-1AR16	115 220 440
S3 80 A	3RT1045-1AJ16 3RT1045-1AN16 3RT1045-1AR16	115 220 440
9 A 15 A 22 A 35 A	3RT1016-1BB41 3RT1016-1BB40 3RT1016-1BB40 3RT1016-1BB40	24 V
Rated current	TYPE	No. The Ejecucion de contactors
Rated current	3RH1911-1FA22 3RH1921-1FA22 3RH1911-1EA11	2NA+2NC 2NA+2NC 2NA+2NC

LC3-D STAR-DELTA REDUCED VOLTAGE STARTER

APPLICATION

LC3-D series star-delta reduced voltage starter is suitable for starting motor in the circuit of AC 50/60Hz,voltage up to 660V and curren up to 95A.It is proided with a timer for automatic changover of star-delta to reduce the voltage and current of motor starting:

SPECIFICATION

Type	Rated opertaing current(A)	3-phase motor capacity(KW)			
		AC3 Loaded			
	AC3	220V	380V	415V	440V
LC3-D093	9	4	7.5	7.5	7.5
LC3-D123	12	5.5	11	11	11
LC3-D183	18	11	18.5	22	22
LC3-D253	25	11	22	22	22
LC3-D323	32	15	25	33	30
LC3-D403	40	18.5	37	37	37
LC3-D503	50	30	55	59	59
LC3-D653	65	32	55	59	59
LC3-D803	80	37	75	75	75
LC3-D953	95	45	80	80	80



3RT-25



3RT-50



LC3-D183



3RU Series Thermal Relay

Application

1) 3RU Series thermal overload relay are suitable for using in the power system with AC 1) Circuit requirements:

- a) Frequency: 50Hz / 60Hz
- b) Rated insulation voltage: 660V
- c) Rated current: 0.1 - 100A

2) To protect phase break when electric motors are overload

3) Various temperature compensating functions

4) Can be plugged in 3RT series AC contactors

5) The products conform to IEC60947-4-1



Type	Fuse Specification	Motor power	Setting range (A)	Type	Fuse Specification	Motor power	Setting range (A)
(3RU) 1116	0.5	0.04	0.11-0.16	(3RU) 1126	25	3	5.5-8.0
	1	0.06	0.14-0.2		35	4	7-10
	1	0.06	0.18-0.25		35	5.5	9-12.5
	1.6	0.09	0.22-0.32		40	7.5	11-16
	2	0.09	0.28-0.4		50	7.5	14-20
	2	0.12	0.35-0.5		63	11	17-22
	2	0.18	0.45-0.63		63	11	20-25
	4	0.18	0.55-0.8	(3RU) 1136	25	3	5.5-8.0
	4	0.25	0.7-1.0		35	4	7-10
	4	0.37	0.9-1.25		35	5.5	9.0-12.5
	6	0.55	1.1-1.6		40	7.5	11-16
	6	0.75	1.4-2.0		50	7.5	14-20
	10	0.75	1.8-2.5		63	11	18-25
	10	1.1	2.2-3.2		80	15	22-32
	16	1.5	2.8-4.0		80	18.5	28-40
	20	1.5	3.5-5.0		100	22	36-45
	20	2.2	4.5-6.3		100	22	40-50
	25	3	5.5-8.0	(3RU) 1146	63	11	48-25
	35	4	7.0-10.0		80	15	22-32
	35	5.5	9月12日		80	18.5	28-40
(3RU) 1126	10	0.75	1.8-2.5		125	22	36-50
	10	1.1	2.2-3.2		125	30	45-63
	16	1.5	2.8-4.0		160	37	57-75
	20	1.5	3.5-5.0		160	45	70-90
	20	2.2	4.5-6.3		200	45	80-100