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ZS3RT-1016



ZS3RT-1025



ZS3RT-1036



ZS3RT-1046

ZS3RT、3RT Series AC Contactor

APPLICATION

ZS3RT contactor fits any weather environment condition. Safe touch protection function accords with DIN VDE 0106 the 100th part's condition. Contactor adopt bolt connection or mode of cage type clamp connection.

SOO spec contactor's base cell can all use as-sistant contact feel block to enlarge. With 2 normopn 2 norm, closed contact's contact group (terminal designing accords EN50012) can use from so spec to all spec assistant feel block can disassemble.

Moreover with soo spec's SO spec, contact group can regularly fix a assistant block (2 normopn and 2 norm closed, accord EN50012 stand-ard) and part of red sign brand in open air.

ZS S3 spec contactor have to connect main loop splilc bar and can move connection terminal box. So it can connect circle cable land, lug or bin-ding.

SPECIFICATIONS

Product mode No. and specification	Rated controlling voltage (US)	assistant contact	Rated curent(A) (AC-3/400V)
ZS3RT-1016	220VAC, 50/60Hz	1NC	7A
		1NO	7A
	24VDC	1NC	7A
		1NO	7A
	220VAC, 50/60Hz	1NC	9A
		1NO	9A
	24VDC	1NC	9A
		1NO	9A
	220VAC, 50/60Hz	1NC	12A
		1NO	12A
	24VDC	1NC	12A
		1NO	12A
ZS3RT-1025	220VAC, 50/60Hz	-	9A
	24VDC	-	9A
	220VAC, 50/60Hz	-	12A
	24VDC	-	12A
	220VAC, 50/60Hz	-	17A
	24VDC	-	17A
	220VAC, 50/60Hz	-	25A
	24VDC	-	25A

32	32	50	45	7.5	15	18.5	18.5	1. Bolt installation 2. 35mm guideway installation
40	40	60	55	11	18.5	22	22	
50	50	55	50	15	22	22	22	

65	65	100	90	18.5	30	37	45	1. Bolt installation 2. 35mm or 75mm guideway installation
80	80	120	100	22	37	45	55	
95	95	120	100	22	45	55	55	



ZS3TF-30、31



ZS3TF-32、33



ZS3TF-34、35



ZS3TF-40、41

ZS3TF Series AC Contactor

APPLICATION

ZS3TF series AC contactor 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. The form electromagnetic starters with suitable thermal over load or phase-failure. They are made according to IEC947, BS5424 & VDE0660. 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 $I_e \leq 22A$ connections. In the $I_e \geq 32A$ contactors, there are moulded arc-chute with arc-isolated panel, because all contacts are made of high nonfusibility and against corrosion silver alloy. All series products can be mounted by screws, $I_e \leq 32A$ contactor also by installation rail.

SPECIFICATIONS

Type		ZS3TF30	ZS3TF31	ZS3TF32	ZS3TF33	
(V)Rated insulation voltage		690	690	690	690	
Rated operational current(380V)	AC-3	9	12	16	22	
	AC-4	3.3	4.3	7.7	8.5	
Rated outputs of three-phase motors at 50Hz	AC-3	230/220V	2.4	3.3	4	5.5
		400/380V	4	5.5	7.5	11
	AC-4	500V	5.5	7.5	9	11
		690/660V	5.5	7.5	11	11
		1000V	-	-	-	-
		400/380V	1.48/1.4	2/1.9	3.5	4
	690/660V	2.54/2.4	3.45/3.3	6	6.6	
	Conventional thermal current of auxiliary contacts		10	10	10	10
Rated operational current of auxiliary contacts		AC-15 380/220V	4/6	4/6	4/6	6/10
Weight		AC0.37	AC0.37	AC0.45	AC0.45	

Type		ZS3TF34	ZS3TF35	ZS3TF40	ZS3TF41		
(V)Rated insulation voltage		690	690	690	690		
Rated operational current(380V)		AC-3	32	38	9	9	
		AC-4	15.6	18.5	3.3	4.3	
Rated outputs of three-phase motors at 50Hz		AC-3	230/220V	8.5	11	2.4	3.4
			400/380V	15	18.5	4	5.5
		AC-4	500V	21	25	5.5	7.5
			690/660V	23	23	5.5	7.5
			1000V	-	-	-	-
		400/380V		7.5	9	1.48/1.4	2/19
		690/660V		13	15.5	2.54/2.4	3.45/3.3
Conventional thermal current of auxiliary contacts		10	10	10	10		
Rated operational current of auxiliary contacts		AC-15 380/220V	4/6	4/6	4/6	4/6	
Weight		AC0.68	AC0.68	AC0.43	AC0.43		



ZS3TF-42, 43



ZS3TF-44, 45



ZS3TF-46, 47



ZS3TF-48, 49

ZS3TF Series AC Contactor

SPECIFICATIONS

Type		ZS3TF-42	ZS3TF-43	ZS3TF-44	ZS3TF45
Rated insulation voltage		690	690	690	690
Rated operational current(380V)	AC-3	16	22	32	38
	AC-4	7.7	8.5	15.6	18.5
Rated outputs of three-phase motors at 50Hz	AC-3	230/220V	4	5.5	11
		400/380V	7.5	11	15
		500V	9	11	25
	AC-4	690/660V	11	11	23
		1000V	-	-	-
		400/380V	3.5	4	7.5
	690/660V		6	6.6	13
	15.5				
Mechanical endurance(x10 ⁵)		15	15	10	10
Mechanical endurance(x10 ⁵)	AC-3	1.2	1.2	1.2	1.2
	AC-4	0.2	0.2	0.2	0.2
Switching frequency(1/h)	AC-3	750	750	750	600
	AC-4	250	250	250	200
Coil voltage tolerance		(0.8~1.1)Us			
Power consumption of coil (50Hz)(AC)	Closed(VA)	10	10	12.1	12.1
	p.f.	0.29	0.29	0.28	0.28
	Closing(VA)	68	68	101	101
	p.f.	0.82	0.82	0.83	0.83
Convention althermal current(A)		30	30	55	55
Conventional thermal current of auxiliary contacts(A)		10	10	10	10
Rated operational current of auxiliary contacts(A)		AC-15 380/220V 6/10	6/10	4/6	4/6
Weight		AC0.49	AC0.49	AC0.68	AC0.68

Type		ZS3TF-46	ZS3TF-47	ZS3TF-48	ZS3TF49
Rated insulation voltage(V)		1000	1000	1000	1000
Rated operational current(380V)(A)	AC-3	45	63	75	85
	AC-4	24	28	34	42
Rated outputs of three-phase motors at 50Hz(KW)	AC-3	230/220V	15	18.5	22
		400/380V	22	30	37
		500V	30	41	50
	AC-4	690/660V	39	55	67
		1000V	-	-	39
		400/380V	12.6/12	14.7/14	17.9/17
	690/660V		21.8/20.8	25.4/24.3	30.9/29.5
	38/36				
Mechanical endurance(x10 ⁵)		10	10	10	10
Mechanical endurance(x10 ⁵)	AC-3	1.2	1.2	1.2	1.2
	AC-4	0.2	0.2	0.2	0.2
Switching frequency(1/h)	AC-3	1200	1000	1000	850
	AC-4	400	300	300	250
Coil voltage tolerance		(0.8~1.1)Us			
Power consumption of coil (50Hz)(AC)	Closed(VA)	17	17	32	32
	p.f.	0.29	0.29	0.29	0.29
	Closing(VA)	183	183	330	330
	p.f.	0.6	0.6	0.6	0.6
Convention althermal current(A)		80	90	100	100
Conventional thermal current of auxiliary contacts(A)		10	10	10	10
Rated operational current of auxiliary contacts(A)		AC-15 380/220V 4/6	4/6	4/6	4/6
Weight		AC1.4/1.6	AC1.4/1.6	AC2.3/2.5	AC2.3/2.5



ZS3TF-50, 51



ZS3TF-52, 53



ZS3TF-54, 55



ZS3TF-56, 57

ZS3TF Series AC Contactor

SPECIFICATIONS

Type		ZS3TF-50	ZS3TF-51	ZS3TF-52	ZS3TF-53
Rated insulation voltage(V)		1000	1000	1000	1000
Rated operational current(380V)(A)	AC-3	110	140	170	205
	AC-4	54	68	75	96
Rated outputs of three-phase motors at 50Hz(KW)	AC-3	230/220V	37	43	55
		400/380V	55	75	90
		500V	76	98	118
	AC-4	690/660V	100	100	156
		1000V	65	65	90
		400/380V	28.4/27	36/35	40/38
		690/660V	49/46.9	63/60	69/66
Mechanical endurance($\times 10^5$)		10	10	10	10
Mechanical endurance($\times 10^6$)	AC-3	1.2	1.2	1.2	1.2
	AC-4	0.2	0.2	0.2	0.2
Switching frequency(1/h)	AC-3	1000	750	750	750
	AC-4	300	200	200	200
Coil voltage tolerance		(0.8~1.1)Us			
Power consumption of coil (50Hz)(AC)	Closed(VA)	39	39	58	58
	p.f.	0.24	0.24	0.26	0.26
	Closing(VA)	550	550	910	910
	p.f.	0.45	0.45	0.38	0.38
Convention althermal current(A)		160	160	210	210
Conventional thermal current of auxiliary contacts(A)		10	10	10	10
Rated operational current of auxiliary contacts(A)		AC-15 380/220V 4/6	4/6	4/6	4/6
Weight		AC3.3/3.5	AC3.3/3.5	AC0.48/5.0	AC0.48/5.0

Type		ZS3TF-54	ZS3TF-55	ZS3TF-56
Rated insulation voltage(V)		1000	1000	1000
Rated operational current(380V)(A)	AC-3	250	300	400
	AC-4	110	125	150
Rated outputs of three-phase motors at 50Hz(KW)	AC-3	230/220V	78	93
		400/380V	132	160
		500V	178	210
	AC-4	690/660V	235	235
		1000V	132	132
		400/380V	61/58	69/66
		690/660V	105/100	119/114
Mechanical endurance($\times 10^5$)		10	10	10
Mechanical endurance($\times 10^6$)	AC-3	1.2	1.2	1.2
	AC-4	0.2	0.2	0.2
Switching frequency(1/h)	AC-3	700	700	500
	AC-4	400	300	150
Coil voltage tolerance		(0.8~1.1)Us		
Power consumption of coil (50Hz)(AC)	Closed(VA)	84	84	115
	p.f.	0.24	0.24	0.33
	Closing(VA)	1430	1430	2450
	p.f.	0.34	0.34	0.21
Convention althermal current(A)		300	300	400
Conventional thermal current of auxiliary contacts(A)		10	10	10
Rated operational current of auxiliary contacts(A)		AC-15 380/220V 4/6	4/6	4/6
Weight		AC6.2/6.4	AC6.2/6.4	AC8.5/8.7



ZS3TB-40, 41



ZS3TB-42, 43



ZS3TB-44

ZS3TB Series AC Contactor

APPLICATION

ZS3TB series AC contactor are latest products in 1990' s. The products bring in produce technical from semo company in germang for 50/60Hz, rated insulation voltage up to 690-1000V, rated operational current up to 9A-400A at rated operational coltage up to 380V under the utilization category AC-3. CJI(3TB) Series AC Contactors are mainly used for making breaking electric circuits at a long distance and for frequent starting stopping and reversing control of AC motors. They standard with IEC947.VDE0660, GB14048.

SPECIFICATIONS

Type		ZS3TB-40	ZS3TB-41	ZS3TB-42	ZS3TB-43	ZS3TB-44
Rated insulation voltage(V)		660	660	660	660	660
Rated operational current(380V)(A)	AC-3	9	12	16	22	32
	AC-4	3.3	4.3	7.7	8.5	15.6
Rated outputs of three-phase motors at 50Hz(KW)	AC-3	230/220V	2.4	3.3	4	6.1
		400/380V	4	5.5	7.5	11
		500V	5.5	7.5	10	11
		690/660V	5.5	7.5	11	11
		1000V	-	-	-	-
	AC-4	400/380V	1.4	1.9	3.5	4
		690/660V	2.4	3.3	6	6.6
Mechanical endurance($\times 10^5$)		10	10	10	10	10
Switching frequency(1/h)	AC-3	1.0	1.0	1.0	1.0	1.0
	AC-4	0.2	0.2	0.2	0.2	0.2
Mechanical endurance($\times 10^5$)	AC-3	1000	1000	750	750	750
	AC-4	250	250	250	250	250
Coil voltage tolerance		(0.8~1.1)Us				
Power consumption of coil (50Hz)(AC)	Closed(VA)	10	10	10	10	10
	p.f.	0.29	0.29	0.29	0.29	0.29
	Closing(VA)	68	68	68	68	68
	p.f.	0.82	0.82	0.82	0.82	0.82
Convention althermal current(A)		20	20	30	30	45
Conventional thermal current of auxiliary contacts(A)		10	10	10	10	10
Rated operational current of auxiliary contacts(A)	AC-15 380/220V	6/10	6/10	6/10	6/10	4/6
Weight		0.43	0.43	0.49	0.49	0.7
The number of AC coil voltage		Coil for 50Hz AC V		Coil for 50Hz/60Hz AC V		
		24	BO	24	C1	
		42	DO	42	D1	
		110	FO	110	G1	
		220	MO	220	P1	
		240	UO	240	R1	
		380	QO			



ZS3TH-80



ZS3TH-82



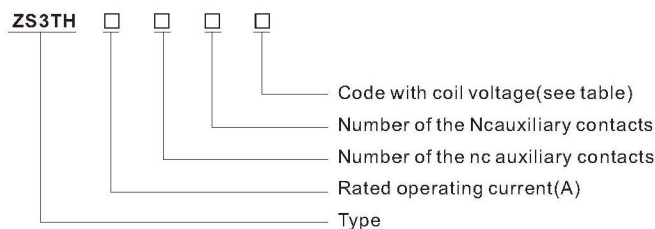
ZS3TX-4010, 4001

ZS3TH Series/CS3TX Series Auxiliary Contact

APPLICATION

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 electro, agnetic coils to increase signal or transfer signal to relative controlling el ements.

TYPE AND MEANING



SPECIFICATIONS

The relays consist of core in the form of letter, "E"and a straight motion mechanism having a bridge double-bre aking system. Desighed compactly and sensitively, the relays are easy to manually check, They can be mounte d by screws or snapped on 35mm top -hat, standard rail. This will save much time and labour costs.

- 1.Rated insulation voltage:660VMax;
- 2.Rated operating vo1tafie:AC 660V DC600V;
- 3.Appointed thermal current 1th:10A;
- 4.Max.operating frequency:12000ps/h;
- 5.Loadina elements 40%;
- 6.Vo1tage operating range:80-110% rated coil vo1tage Us;
- 7.Rated controlling capacity and rated current of the relay as in Table 1;
- 8.Electrical endurance:underA.C.15 D.C.13 Will be 10° ;
- 9.Mechanical endurance:1.5×10°ps;
- 10.Rated coil volta Us: 24, 36, 48, 110, 127, 380V (50Hz); DC.24, 110,220,440V;
- 11.Rated coil power-loss:<68VA(when clsing), <10VA(after closing)
- 12.The combiation form of contacts as Table 2AC-15

Rated controlling capacity(VA)	Rated operating(A)			
	127V	220V	380V	660V
360	2.8	1.6	1	0.55

Rated controlling capacity(VA)	Rated operating(A)		
	110V	220V	660V
360	0.32	0.16	0.55



ZS3TD40、41



ZS3TD44、45



ZS3TD52、53



ZS3TD56、57

ZS3TD Series Reversing Contactor Combinations

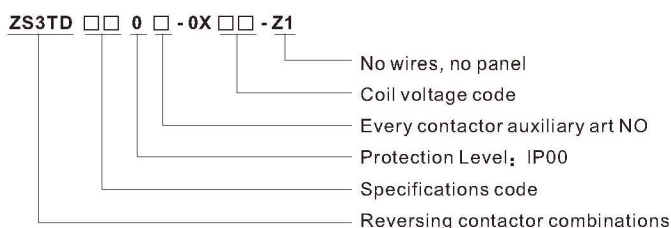
APPLICATION

ZS3TD series machine interlock contactors are suitable for using in AC 50/60Hz and rating insulation voltage 690-1000V, rating voltage 380V, rating current 9A-150A under AC-3, and control the positive and negative rotation of motor. Contactors conform with IEC60947-41, VDE0660GB14048.4 and etc.

FEATURES

- 2.1 Made up of by 2 same type AC contactors of 3TB or 3TF, interlocked by machine interlock
- 2.2 Machine interlock doesn't affect the action time of AC contactor.
- 2.3 Products loops, assistant loop lead connected (the products not connected with lead supply)
- 2.4 Close frame and reliable interlock
- 2.5 Thermal relay 3UA can be inserted and installed on 3TD (below 3TD42)

TYPE AND MEANING



LEADING THE LINE CUTS AREA(CONNECT LINE BOLT)

type	Rated thermal current (A)	Rated operation current (A)		Controllable power of motor (KW)			
		380V	660V	AC-3		AC-4	
				380V	660V	380V	660V
ZS3TD40	20	9	7	4	5.5	1.4	2.4
ZS3TD41	20	12	8.5	5.5	7.5	1.9	3.3
ZS3TD42	30	16	12.5	7.5	11	3.5	6
ZS3TD43	30	22	16.5	10	15	4	6.6
ZS3TD44	55	32	24	15	22	7.5	13
ZS3TD45	55	38	24	18.5	22	9	15.5
ZS3TD46	80	45	40	22	37	12	20.8
ZS3TD47	80	63	60	30	55	14	24.3
ZS3TD48	100	75	60	37	55	17	29.5
ZS3TD49	100	85	80	45	75	21	36
ZS3TD50	160	110	95	55	90	27	46.9
ZS3TD51	160	140	120	75	110	35	60
ZS3TD52	200	170	160	90	150	8	66
ZS3TD53	210	205	165	110	160	50	86
ZS3TD54	300	250	230	132	220	58	100
ZS3TD55	300	300	260	160	250	66	114

	1.a) mm ²	1.b) mm ²	1.c) mm ²	1.d) mm ²	1.e) mm ²	1.f) mm ²	1.g)	1.h) Nm/lb.in	1.i) AWG	2.a) mm ²	2.b) mm ²	2.c)	2.d) Nm/lb.in	2.e) AWG
ZS3TD40	1-2.5	0.75-2.5	-	-	-	10	M3.5	0.8-4.4/7/12	18-12					
ZS3TD41	1×4													
ZS3TD42	2.5-6	1.5-4	-	-	-	12	M4	1-1.5/9-13	14-10					
ZS3TD43														
ZS3TD44	2.5-25	2.5-16	-	-	-	10	M5	0.8-4.4/7/12	18-12					
ZS3TD45														
ZS3TD46										0.5-2.5	0.75-2.5	M3.5	0.8-4.4/7/12	18-14
ZS3TD47	6-35	4-25	-	-	-	16 ⁺³	-	3-4						
ZS3TD48														
ZS3TD50	25-70	25-50	-	-	-	2 ⁺³	-	4-5						
ZS3TD52	-	-	35-95	50-120	20×3	-	M8	10-14						
ZS3TD54	-	-	50-240	70-240	25×5	-	M10	14-16.5						
ZS3TD56	-	-	50-240	70-240	2×3(25×5)	-	M10	14-16.5						

ZS3TB-OB Series DC Contactor

SPECIFICATIONS



ZS3TB-OB40, 41



ZS3TB-OB42, 43



ZS3TB-OB44
CS3RT-1046

Type	Rated insulation voltage(V)	Mechanical endurance (x10 ⁶)	electric endurance (x10 ⁶)		Rated operational current(380V)(A)		Rated outputs of three-phase motors at 50Hz(KW)					
							AC-3				AC-4	
			AC-3	AC-4	AC-3	AC-4	230/220V	400/380V	500V	690/660V	400/380V	690/660V
ZS3TB-9/Z	660	10	1.0	0.2	9	3.3	2.4	4	5.5	5.5	1.4	2.4
ZS3TB-12/Z	660	10	1.0	0.2	12	4.3	3.3	5.5	7.5	7.5	1.9	3.3
ZS3TB-16/Z	660	10	1.0	0.2	16	7.7	4	7.5	10	10	3.5	6
ZS3TB-22/Z	660	10	1.0	0.2	22	8.5	6.1	11	11	11	4	6.6
ZS3TB-32/Z	660	10	1.0	0.2	32	15.6	8.5	15	21	23	7.5	13

Power consumption of coil(50Hz)(AC)					Coil voltage tolerance	Switching frequency (1/h)		Convention althermal current (A)	Rated operational current of auxiliary contacts (A)		Conventional thermal current of uxiliary contacts(A)	Conventional insulation voltage of auxiliary contacts(V)	Weight (kg)
(50Hz)AC				DC		AC-3	AC-4						
Closed (VA)	p.f.	Closing (VA)	p.f.	Closed & closing (W)									
									AC-15	DC-13			
									380/220V	110/220V			
10	0.29	68	0.82	6.2	0.8~1.1Us	1000	250	20	6/10	0.9/0.45	10	660	0.43
10	0.29	68	0.82	6.2	0.8~1.1Us	1000	250	20	6/10	0.9/0.45	10	660	0.43
10	0.29	68	0.82	6.2	0.8~1.1Us	750	250	30	6/10	0.9/0.45	10	660	0.49
10	0.29	68	0.82	6.2	0.8~1.1Us	750	250	30	6/10	0.9/0.45	10	660	0.49
10	0.29	68	0.82	6.2	0.8~1.1Us	750	250	55	4/6	0.9/0.45	10	660	0.7

Type	MAX	MAX	MAX	a	b	φ
ZS3TB-9Z-12Z/10 01 11 22	46	79	123	35±0.50	60±0.60	4.8 ^{+0.48} ₀
ZS3TB-9Z-12Z/10 01 11 22	46	79	142	35±0.50	60±0.60	4.8 ^{+0.48} ₀
ZS3TB-16Z-12Z/22	46	89	148	35±0.50	75±0.60	4.8 ^{+0.48} ₀
ZS3TB-9Z-32Z/22	74	90	148	50±0.50	75±0.60	5 ^{+0.48} ₀



ZSABB-9, 12, 16



ZSABB-26



ZSABB-30, 40



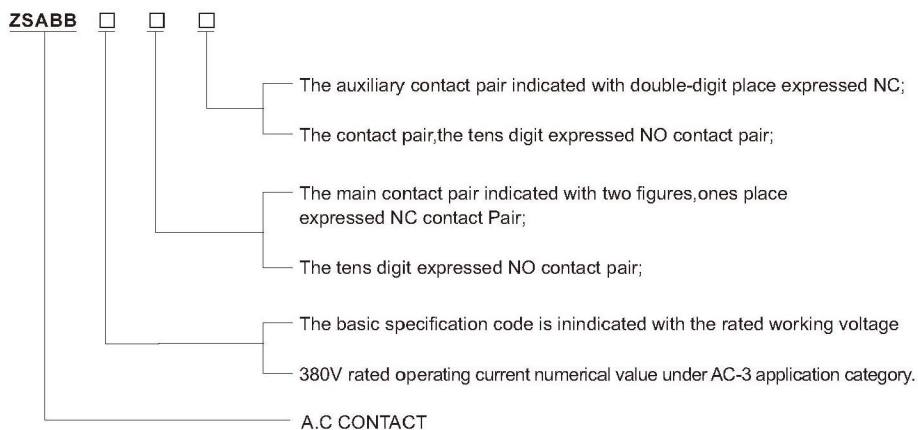
ZSABB-63, 75

ZSABB Series AC Contactor

APPLICATION

ZSABB-9-110 AC contactor (hereafter refer to as contactor) is mainly used in power system with AC 50Hz (or 60Hz), the rated voltage 380V, the rated operating current to 110A electrical, for the long-distance range making and breaking the electric circuit, and combines the electromagnetism starter with the suitable thermal overload relay or the electronic protector to protect against the possible overload electric circuit during operation (running).

TYPE AND MEANING



SPECIFICATIONS

Type	Frame code	Rated insulation voltage Ui V	Conventional free air heat current Ith	AC-3 rated operating current Ie A			AC-3 control the max. Power KW of generator		
				220V	380V	660V	220V	380V	660V
ZSABB-9	16	1000	26	9	9	7	2.2	4	5.5
ZSABB-12			28	12	12	9	3	5.5	7.5
ZSABB-16			30	17	17	10	4	7.5	9
ZSABB-26	26		45	26	26	17	6.5	11	15
ZSABB-30	40		65	32	32	21	9	15	18.5
ZSABB-40			65	37	37	25	11	8.5	22
ZSABB-50	75		100	50	50	35	15	22	30
ZSABB-63			125	65	65	43	18.5	30	37
ZSABB-75			125	75	75	46	22	37	40
ZSABB-95	110		145	96	96	65	25	45	55
ZSABB-110			160	110	110	82	30	55	75



ZSABB-110



ZSABB-145, 185



ZSABB-210, 260, 300



ZSB9



CSB30



ZSB65



ZSB105



ZSB170

ZSB Series AC Contactor

APPLICATION

ZSB series AC contactors, mainly used in 50/60Hz electrical line of the rated voltage up to 660V AC and rated current up to 475A, are applicable for remote making and breaking of electrical lines or frequent control of AC motors, having no-voltage protection. Usually, it can be combined with T series thermal relay to form electromagnetic starters which have overload and open-phase protection. It complies with IEC60947 & VDE0660.

SPECIFICATIONS

Type		ZSB-09	ZSB-12	ZSB-16	ZSB-25	ZSB-30	ZSB-37
Rated insulation voltage (V)		~750					
Conventional thermal current (A)		16	20	25	40	45	45
Rated operating current AC3(A)	380V	8.5	11.5	15.5	22	30	37
	660V	3.5	4.9	6.7	13	17.5	21
Rated controlled power AC3(KW)	380V	4	5.5	7.5	11	15	18.5
	660V	3	4	5.5	11	15	18.5
Coil power (VA/W)	Starting	60/50	60/50	60/50	85/65	85/65	85/65
	Absorbing and enduring	9/2.2	9/2.2	9/2.2	10/3	10/3	10/3
Coil voltage Us(VA)	DC	24、36、48、110、127、220、380、415					
	AC	24、48、110、220					
Attached Auxiliary Contact type and quantity		(0~4个)CA7					(0~4个)CA9

Type		ZSB-45	ZSB-65	ZSB-85	ZSB-105	ZSB-107	ZSB-250	ZSB-370
Rated insulation voltage (V)		~750						
Conventional thermal current (A)		60	80	100	140	230	330	410
Rated operating current AC3(A)	380V	44	65	85	105	170	250	370
	660V	25	45	55	82	118	170	268
Rated controlled power AC3(KW)	380V	22	33	45	55	90	132	200
	660V	22	40	50	75	110	160	250
Coil power (VA/W)	Starting	175/125	270/130	270/130	510/280	790/460	1100/600	1900/850
	Absorbing and enduring	22/5	30/8	30/8	32/9	60/15	66/16	100/27
Coil voltage Us(VA)	DC	24、36、48、110、127、220、380、415						
	AC	24、48、110、220						
Attached Auxiliary Contact type and quantity		(0~4个)CA9			(0~4个)CA11			



ZSLS-09、12、18、22



ZSLS-32、40



ZSLS-50、65、75、85



ZSLS-100、125

ZSLS Series AC Contactor

APPLICATION

ZSLS Series AC DC contactors are latest products in 1990's. The series of products for frequency of 50/60Hz, rated insulation voltage up to 690-1000V, rated operational current up to 9A-800A at rated operational voltage up to 380V imder the ito;ozatopm categpru AC-3. DRC1 Series AC DC Contactors are mainly used for making breaking electric circuits at a long distance and for frequent starting stopping and reversing control of AC motors. They products comply with IEC947. VDE0660, Gb14048.

SPECIFICATIONS

Coil Voltage	AC	ZSLS-9 ZSLSD-9		ZSLS-12 ZSLSD-12		ZSLS-18 ZSLSD-18		ZSLS-22 ZSLSD-22	
	DC								
额定值Rating/IEC60947-4		KW	A	KW	A	KW	A	KW	A
Ie AC-ith		25		25		40		40	
3~AC-3 200/240V		2.5	11	3.5	13	4.5	18	5.5	22
380/440V		4	9	3.5	12	7.5	18	11	22
500/550V		4	7	7.5	12	7.5	13	15	22
690/(660)		4	5	7.5	9	7.5	9	15	22
Convention heating current(A)		20		25		30		30	
Single-phase 115V		0.5HP		0.5HP		1HP		2HP	
230V		1HP		2HP		3HP		3HP	
phase 220v		2HP		3HP		5HP		7HP	
230V		2HP		3HP		5HP		7.5HP	
460V		5HP		7.5HP		10HP		10HP	
575V		7.5HP		10HP		15HP		15HP	

SPECIFICATIONS

ZSLS-32 ZSLSD-32		ZSLS-40 ZSLSD-40		ZSLS-50 ZSLSD-50		ZSLS-65 ZSLSD-65		ZSLS-75 ZSLSD-75	
KW	A	KW	A	KW	A	KW	A	KW	A
50		60		80		100		110	
7.5	32	11	40	15	55	18.5	65	22	75
15	32	18.5	40	22	50	30	65	37	75
18.5	28	22	32	30	43	33	60	37	64
18.5	20	22	32	30	28	33	28	37	42
45		50		70		80		90	
2HP		3HP		3HP		5HP		5HP	
5HP		5HP		7.5HP		10HP		15HP	
7.5HP		10HP		10HP		15HP		20HP	
10HP		10HP		10HP		20HP		25HP	
20HP		25HP		30HP		40HP		50HP	
20HP		25HP		30HP		40HP		50HP	



ZSLS-150



ZSLS-180,220



ZSLS-300,400



ZSLS-600,800

ZSLS Series AC Contactor

SPECIFICATIONS

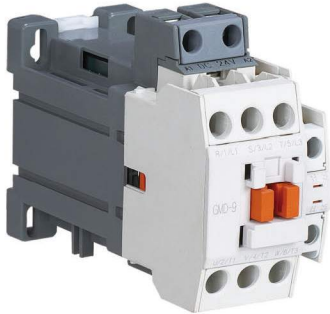
ZSLS-85 ZSLSD-85		ZSLS-100 ZSLSD-100		ZSLS-125 ZSLSD-125		ZSLS-150 ZSLSD-150		ZSLS-180 ZSLSD-180	
KW	A	KW	A	KW	A	KW	A	KW	A
	135		150		150		200		230
25	85	30	105	37	125	45	150	55	180
45	85	55	105	60	120	75	150	90	180
45	75	55	85	60	90	90	140	110	180
45	45	55	65	60	70	90	100	100	120
	100		160		160		200		230
	7.5HP		7.5HP		10HP		15HP		15HP
	15HP		15HP		20HP		25HP		30HP
	25HP		30HP		40HP		40HP		60HP
	30HP		30HP		40HP		50HP		60HP
	50HP		60HP		75HP		100HP		125HP
	50HP		60HP		75HP		100HP		125HP

SPECIFICATIONS

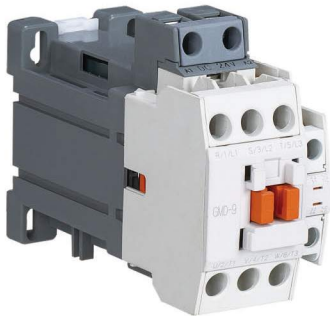
ZSLS-220 ZSLSD-220		ZSLS-300 ZSLSD-300		ZSLS-400 ZSLSD-400		ZSLS-600 ZSLSD-600		ZSLS-800 ZSLSD-800	
KW	A	KW	A	KW	A	KW	A	KW	A
	260		350		420		660		900
75	250	90	105	125	400	190	630	220	800
132	250	160	105	220	400	330	630	440	800
132	200	160	85	225	350	330	500	550	720
132	150	200	65	250	300	330	420	500	120
	257		250		450		800		900
	15HP								
	40HP								
	60HP		100HP		25HP		150HP		200HP
	75HP		100HP		150HP		200HP		250HP
	150HP		200HP		300HP		400HP		500HP
	150HP		200HP		300HP		400HP		500HP

ZSLSD DC Contactors

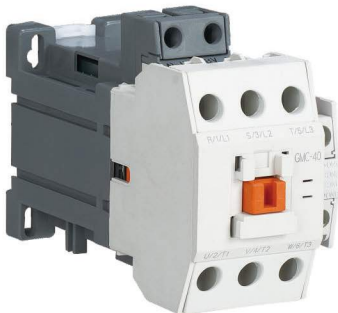
POLES OF DC CIRCUIT



ZSLSD-09、12



ZSLSD-18、22

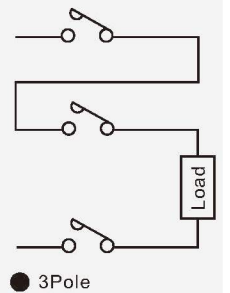
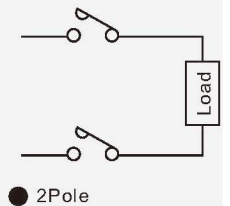


ZSLSD-32、40



ZSLSD-50、65、75、85

Type	Number of poles	Rate current (DC2, DC4) DC motor load (L/R=15MS)				Rate current (DC1) DC motor load (L/R=1MS)				Rate current (DC1) Coil load (L/R=100MS)			
		24V	48V	110V	220V	24V	48V	110V	220V	24V	48V	110V	220V
ZSLSD-9	2	8	4	2.5	0.8	10	10	6	3	8	4	2	0.3
	3	8	6	4	2	10	10	8	8	8	6	3	0.8
ZSLSD-12	2	12	6	4	1.2	12	12	10	7	12	6	3	0.5
	3	12	10	8	4	12	12	12	12	12	10	5	2
ZSLSD-18	2	12	6	4	1.2	18	18	13	8	12	6	3	0.5
	3	12	10	8	4	18	18	18	18	12	10	5	2
ZSLSD-22	2	20	15	8	2	20	20	15	10	20	12	3	1.2
	3	20	20	15	8	20	20	20	20	20	15	10	4
ZSLSD-32	2	25	20	10	3	25	25	25	12	25	15	4	1.2
	3	25	25	20	10	25	25	25	22	25	25	12	4
ZSLSD-40	2	35	20	10	3.5	35	25	25	12	35	15	4	1.2
	3	35	30	20	12	35	35	35	30	35	25	12	4
ZSLSD-50	2	45	25	15	3.5	50	40	35	15				
	3	50	35	30	12	50	50	50	40				
ZSLSD-65	2	45	25	15	3.5	50	40	35	15				
	3	50	35	30	12	65	65	65	50				
ZSLSD-75	2	65	40	20	5	75	65	50	20				
	3	80	60	50	20	75	75	75	55				
ZSLSD-85	2	65	40	20	5	80	65	50	20				
	3	80	60	50	20	80	80	80	60				
ZSLSD-100	2	100	90	40	30	100	100	80	50				
	3	100	90	80	50	100	100	100	80				
ZSLSD-125	2	120	60	40	30	120	100	80	50				
	3	120	90	80	50	120	120	100	80				
ZSLSD-150	2	150	100	80	60	150	120	100	100				
	3	150	130	120	80	150	150	150	150				
ZSLSD-180	2	180	150	120	80	180	180	150	150				
	3	180	180	150	100	180	180	180	180				
ZSLSD-220	2	220	150	120	80	220	180	150	150				
	3	220	220	150	100	220	220	220	220				
ZSLSD-300	2	300	200	150	90	300	240	200	200				
	3	300	280	200	150	300	300	300	300				
ZSLSD-400	2	400	200	150	90	400	240	200	200				
	3	400	280	200	150	400	400	400	300				
ZSLSD-600	2	630	630	630	630	630	630	630	630				
	3	630	630	630	630	630	630	630	630				
ZSLSD-800	2	800	630	630	630	800	800	630	630				
	3	800	630	630	630	800	800	800	800				





ZSLC1-D0911, 1211, 1811



ZSLC1-D2511, 3211, 3811



ZSLC1-D4011, 5011, 6511



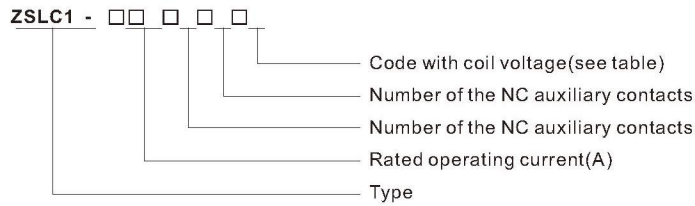
ZSLC1-D8011, 9511

NEW ZSLC1-D Series AC Contactor

APPLICATION

ZSLC1-D series AC contactor (simplified as contactor in the following) is suitable for using in the circuits up to the rated voltage 660V AC 50Hz or 60Hz, rated current 95A, for making and breaking and frequent starting, controlling the AC motor. Combined with the auxiliary contact group, air delayer, machine interlocking device etc, it is combined into the delay contactor, mechanical interlocking device etc, it is combined into the delay contactor, mechanical interlocking contactor, star-triangle starter, with the thermal relay, it is combined into the electromagnetic starter.

TYPE AND MEANING



(V) Coil voltage	24	32	48	110	127	220	240	380	415	440	480	660	660
50Hz	B5	C5	E5	F5	G5	M5	U5	Q5	N5	R5	T5	S5	Y5
60Hz	B6	C6	E6	F6	G6	M6	U6	Q6	N6	R6	T6	S6	Y6
50/60Hz	B7	C7	E7	F7	G7	M7	U7	Q7	N7	R7	T7	S7	Y7

SPECIFICATIONS

Type	ZSLC1-09	ZSLC1-12	ZSLC1-18	ZSLC1-25	ZSLC1-32	ZSLC1-40	ZSLC1-50	ZSLC1-65	ZSLC1-80	ZSLC1-95
Rated insulation (V)	660	660	660	660	660	660	660	660	660	660
Conventional thermal current (A)	20	25	32	40	50	60	75	80	110	125
Rated operational current 380V AC3	9	12	16	25	32	40	50	63	80	95
Controlled power(kw)	2.2	3	4	5.5		11	15	18.5	22	25
	4	5.5	7.5	11		18.5	22	30	37	45
	4	5.5	9	11		22	25	37	45	45
	4	5.5	9	11		22	30	37	45	45
	5.5	7.5	10	15		30	33	37	45	45
Note	Installation 1、 2 Screw installation 2、 The installation of the relays can use two screws and also use the 35mm installation rail					1、 3 Screw installation 2、 The installation of the relays can use three screws and also use the 75mm or 35mm installation rail				

Note:3P:Three pairs of main contacts,NO:one pair of No auxiliary contacts.
NC:one pair of NC auxiliary contacts.



ZSLC1-D09, 12



ZSLC1-D18



ZSLC1-D25



ZSLC1-D32



ZSLC1-D40, 50, 65



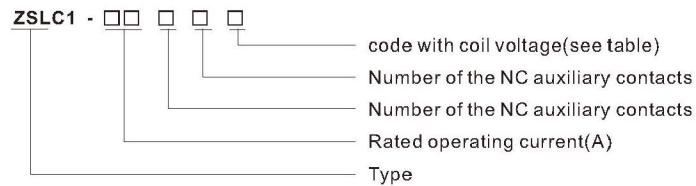
ZSLC1-D80, 95

ZSLC1-D Series AC Contactor

APPLICATION

ZS LC1-D series AC contactors(simplified AC contactor in the following)are suitable for using 50Hz or 60Hz rated voltage up to 660V rated current up to 95A. It is mainly used for making/breaking electric circuits at a long distance and for frequent starting/stopping and control AC motors. Combined with the auxiliary contact group, air delayer, machine inter locking device etc. It is combined into the delay contactor. Mechanical inter locking contactor star-triangle starter with the thermal relay.It is combined into the electromagnetic starter mechanical.

TYPE AND MEANING



SPECIFICATIONS

Type	ZS LC1-09	ZS LC1-12	ZS LC1-18	ZS LC1-25	ZS LC1-32	ZS LC1-40	ZS LC1-50	ZS LC1-65	ZS LC1-80	ZS LC1-95
Rated insulation (V)	660	660	660	660	660	660	660	660	660	660
Conventional thermal current (A)	20	25	32	40	50	60	75	80	110	125
Rated operational current 380V Ac3	9	12	16	25	32	40	50	63	80	95
Controlled power(kw)	2.2	3	4	5.5		11	15	18.5	22	25
	4	5.5	7.5	11		18.5	22	30	37	45
	4	5.5	9	11		22	25	37	45	45
	4	5.5	9	11		22	30	37	45	45
	5.5	7.5	10	15		30	33	37	45	45
Note	1、Install way 2、The installation of the relays can use two screws and also use the 35mm installation rail					1、3 Screw installation 2、The installation of the relays can use three screws and also use the 75mm or 35mm installation rail				

ZSLP1-D Series DC Contactor

APPLICATION

ZS LPI-D Series DC Operated AC contactor is suitable for use in the circuit up to rated voltage up to 660V AC 50Hz or 60Hz and in rated current 9-95A in AC-3/380V load circuits. For remote controlling circuit making, breaking and frequent starting AC motors. It can be also combined with the auxiliary contact group, air delay, the thermal relay devices etc. It has features of equable & reliable action, quick while working.

SPECIFICATIONS

Type	Rated working current I_{eN} (A)	Rated heat current 1th (A)	Rated working voltage U_e (V)	Rated insulating voltage U_{ie} (V)	Controlled power (kW)					Electrical life (AC-3) 10^4	Contacts Number
					220V	380V	415V	440V	660V		
ZSLP1-D09	09	20	380V 660V	660V	2.2	4	4	4	5.5	100	3P+NO 3P+NC
ZSLP1-D12	12	20			3	5.5	5.5	5.5	7.5	100	
ZSLP1-D18	18	32			4	7.5	9	9	9	100	
ZSLP1-D25	25	40			5.5	11	11	11	15	100	
ZSLP1-D32	32	50			7.5	15	15	15	18.5	80	
ZSLP1-D40	40	60			11	18.5	22	22	30	80	3P+NO+NC
ZSLP1-D50	50	80			15	22	25	25	33	60	
ZSLP1-D65	65	80			18.5	30	37	37	37	60	
ZSLP1-D80	80	125			22	37	45	45	45	60	
ZSLP1-D95	95	125			25	45	45	45	45	60	



ZSLP1-D 09, 12



ZSLP1-D 18



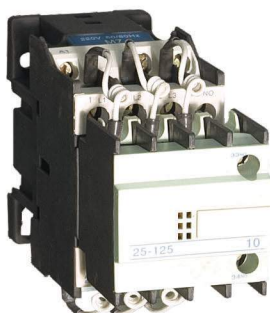
ZSLP1-D 25



ZSLP1-D 40, 50, 65



ZSLP1-D 80, 95



ZSCJ19C(16C)-32



ZSCJ19(16-43)



ZSCJ19C(16C)-63



ZSCJ19C(16C)-95

ZSCJ19C(16C) Series Capacitive contactor

APPLICATION

In the AC frequency 50Hz, voltage to 380v electricity system, it is use to turn on and off parallel connection capacitor for reform electricity system power factor. It can effectually restrain close surge effectually. It can instead of CJ10 contacotr and three XD1limit reactor device. It have the feature of small capacity, light weight, good on/off, save material.

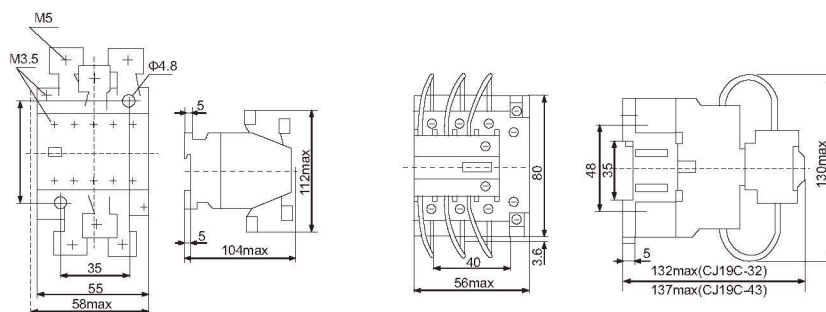
TYPE AND MEANING

ZSCJ 16(19)	☐	☐	☐
			N.C Auxiliary contact quantity
			N.O Auxiliary contact quantity
			Rated working voltage 380v rated working current
			Design number
			AC contactor

MIN TECHNICAL PARAMETER

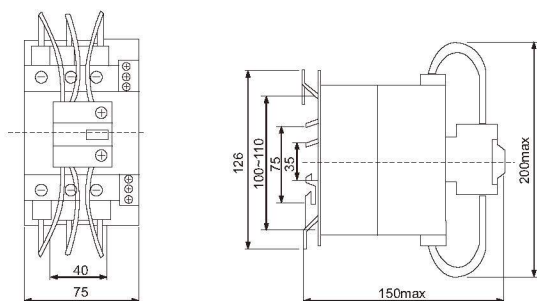
Type		ZSCJ19(CJ19C)-32	ZSCJ19(CJ19C)-43	ZSCJ19(CJ19C)-63
Control capacity Qn 400V Kver		15	20	32
Stipulation heat current 1th A		32	43	69
Restraining surge ability		≤20In		
Coil	Voltage Us	220、380		
	Operating frequency	0.85 ~ 1.1Us		
	Power consumption	Start	115	200
		Holding	10	20
Mechanical endurance	Million Time	10	8	
Mechanical endurance	Million Time	100	80	

OVERALL & INSTALLATION DIMENSION



ZSCJ19-25、32、43

ZSCJ19-32
43



ZSCJ19/C-63、95



ZSLC2-D09



ZSLC2-D25



ZSLC2-D9511

ZSLC2-D Mechanical Interlocking Contactor

APPLICATION

ZSLC2-D series machine interlock contactors are suitable for using in AC 50/60Hz and rating insulation voltage 690-1000V, rating voltage 380V, rating current 9A-150A under AC-3, and control the positive and negative rotation of motor. Contactors conform with IEC60947-41, VDE0660GB14048.4 and etc.

FEATURES

- 2.1 Made up of by 2 same type AC contactors of ZSLC2-D interlocked by machine interlock
- 2.2 Machine interlock doesn't affect the action time of AC contactor.
- 2.3 Products loops, assistant loop lead connected (the products not connected with lead supply)
- 2.4 Close frame and reliable interlock

SPECIFICATIONS

Type	Rated current AC-3	Controlled power(KW)				
		220V	380V	415V	415V	660V
ZSLC2-D09	9	2.2	4	4	4	5.5
ZSLC2-D12	12	5.5	5.5	5.5	5.5	7.5
ZSLC2-D18	16	7.5	7.5	9	9	10
ZSLC2-D25	25	5.5	11	11	11	15
ZSLC2-D32	32	7.5	15	15	15	18.5
ZSLC2-D4011	40	18.5	18.5	22	22	30
ZSLC2-D5011	50	15	22	25	30	33
ZSLC2-D6511	63	18.5	30	37	37	37
ZSLC2-D8011	80	22	37	45	45	45
ZSLC2-D09511	95	22	45	45	45	41



ZSLC1-F115、150



ZSLC1-F185、225



ZSLC1-F265、330



ZSLC1-F400、500



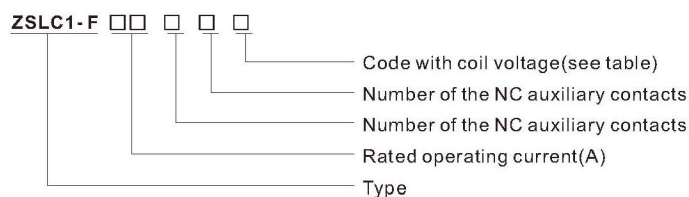
ZSLC1-F630

ZSLC1-F Series AC Contactor

APPLICATION

ZS LC1-F series AC contactor (the followings are called contactor), it is used in 50Hz or 60Hz, allocated special with coil. Which can be used in the circuit of 40-400Hz, voltage up to 660V, current up to less than 630A electric circuits, It is maining used for putting through and breaking the main circuit and also for frequently starting and controlling motor. It can unify the general electrical equipment, motor and circuit. The auxiliary contact group. Air time-delay head. Mechanical interlock contactor and star-triangle starter. The thermal-relay it can form the magnetic starter.

TYPE AND MEANING



APPLICATION

With fine and compact strcture. Function moulding, and cordwood assembly seero liner line layout, The contactor is protective type, the acting mechanism is line motion type, the contact is doublebreaking point. Add mechanical interlock oorganization between two contactors to form mechanical interlock contactor(reversible shift contactor).

SPECIFICATIONS

Type			ZSLC1 -F115	ZSLC1 -F150	ZSLC1 -F185	ZSLC1 -F225	ZSLC1 -F265	ZSLC1 -F330	ZSLC1 -F400	ZSLC1 -F500	ZSLC1 -F630
Rated operational current Ie(A)	AC-3	380V	115	150	185	225	265	330	400	500	630
		660V	86	107	118	125	170	325	305	355	460
	AC-4	380V	52	60	79	85	105	217	138	147	1880
		660V	49	61	69	82	98	118	135	145	170
Controlled squirrel-cage asynchronous motor's max power pe(kw)	AC-3	380V	55	75	90	110	132	160	200	250	335
		660V	80	100	110	129	160	220	280	335	450
	AC-4	380V	25	30	40	45	55	63	75	80	100
		660V	45	55	30	75	90	110	129	140	160
Conventional thermal current(A)			200	250	275	315	350		500	700	1000
Vrated operational voltage(Ue)			380、660								
Rated insulation voltage(Ui)			660								
Operating frequency			IEC947、GB14048								
AC-3	Electrical endurance		60×10 ⁴		50×10 ⁴			30×10 ⁴		20×10 ⁴	
	h-1Swiching frequency		600					300			
AC-4	Electrical endurance		15×10 ⁴			8×10 ⁴		5×10 ⁴			
	h-1Swiching frequency		150								
Mechanical endurance(x10 ⁵)			3×10 ⁵					1×10 ⁵			
Auxiliary contacts	AConventional thermal current(Ith)		10								
	Electrical endurance	AC-15	60×10 ⁴		50×10 ⁴			30×10 ⁴		20×10 ⁴	
		AC-13									



ZSLC1-D115, 150, 170



ZSLC1-D205, 245



ZSLC1-D300



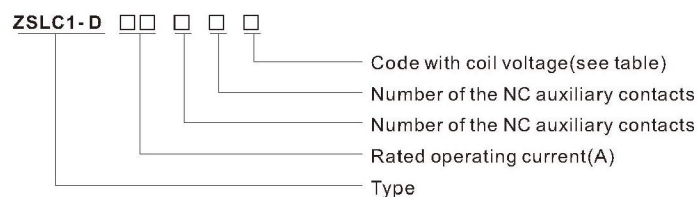
ZSLC1-D620

ZSLC1-D Series AC Contactor

APPLICATION

ZS LC1-D series AC contactor (the followings are called contactor), it is used in 50Hz or 60Hz, allocated special with coil. Which can be used in the circuit of 40-400Hz, voltage up to 660V, current up to less than 630A electric circuits, It is maining used for putting through and breaking the main circuit and also for frequently starting and controlling motor. It can unify the general electrical equipment, motor and circuit. The auxiliary contact group. Air time-delay head. Mechanical interlock contactor and star-triangle starter. The thermal-relay it can form the magnetic starter.

TYPE AND MEANING



APPLICATION

With fine and compact strcture. Function moulding, and cordwood assembly seero liner line layout, The contactor is protective type, the acting mechanism is line motion type, the contact is doublebreaking point. Add mechanical interlock oorganization between two contactors to form mechanical interlock contactor(reversible shift contactor).

SPECIFICATIONS

Type			ZSLC1-D115	ZSLC1-D150	ZSLC1-D170	ZSLC1-D205	ZSLC1-D245	ZSLC1-D300	ZSLC1-D410	ZSLC1-D475	ZSLC1-D620
Rated operational current Ie(A)	AC-3	380V	115	150	185	225	265	330	400	500	630
		660V	86	107	118	125	170	325	305	355	460
	AC-4	380V	52	60	79	85	105	217	138	147	1880
		660V	49	61	69	82	98	118	135	145	170
Controlled squirrel-cage asynchronous motor's max power pe(kw)	AC-3	380V	55	75	90	110	132	160	200	250	335
		660V	80	100	110	129	160	220	280	335	450
	AC-4	380V	25	30	40	45	55	63	75	80	100
		660V	45	55	30	75	90	110	129	140	160
Conventional thermal current(A)			200	250	275	315	350		500	700	1000
Vrated operational voltage(Ue)			380、660								
Rated insulation voltage(Ui)			660								
Operating frequency			IEC947、GB14048								
AC-3	Electrical endurance		60×10 ⁴		50×10 ⁴			30×10 ⁴		20×10 ⁴	
	h-1Swiching frequency		600						300		
AC-4	Electrical endurance					15×10 ⁴			8×10 ⁴		5×10 ⁴
	h-1Swiching frequency					150					
Mechanical endurance(x10 ⁵)			3×10 ⁵					1×10 ⁵			
Auxiliary contacts	AConventional thermal current(Ith)		10								
	Electrical endurance	AC-15	60×10 ⁴		50×10 ⁴			30×10 ⁴		20×10 ⁴	
		AC-13									



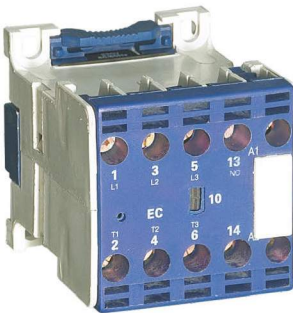
ZSLC1-K06、09、12



ZSLP1-K06、09、12



ZSLC1-E06、09、12



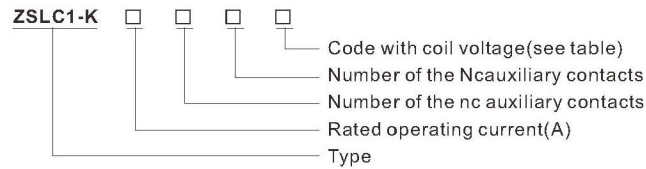
ZSLP1-E06、09、12

ZSLC1-K Series AC Contactor

APPLICATION

ZS LC1-K series AC contactor is suitable for using in the circuit up to the rated voltage 660 AC 50Hz/60Hz, rated current up to 12A, for 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. Contactor designed by traverse double breaking points, blocking and zero flash-over, it has characteristic of multi-functional combination, small volume and reliability and can replace LCI-K, LCI-E series of TE company, products have been widely applied to signal magnifying switch in micro-electronics interface.

TYPE AND MEANING



SPECIFICATIONS

Type	Rated operational current (A)(380)	AC-3Use group				Contact number(1)
		Control powerKW				
		220V	380/415V	440/500V	600V	
ZSLC1-K06	6	1.5	2.2	3	3	3P+NC 3P+NO
ZSLC1-K09	9	2.2	4	4	4	3P+NC 3P+NO
ZSLC1-K12	12	3	5	5	5	3P+NC 3P+NO

Parameters		Type	CSLC1-K06	CSLC1-K09	CSLC1-K12
AC-3Use group rated working current (Ie)A	380V		6	9	12
	660V		5	7.5	10
Convention althermal current(Ith)V			16	20	20
Rated working voltage(Ue)V			380 660		
Rated insulation voltage(Ui)V			390		



ZSLC2-K06、09、12



ZSLC2-E06、09、12



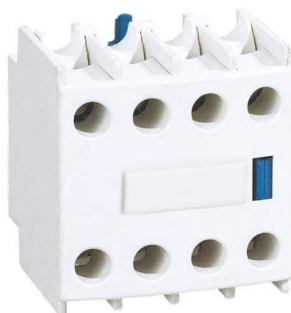
ZSLA1-DN11



ZSLA1-DN22



ZSLA1-DN11



ZSLA1-DN22

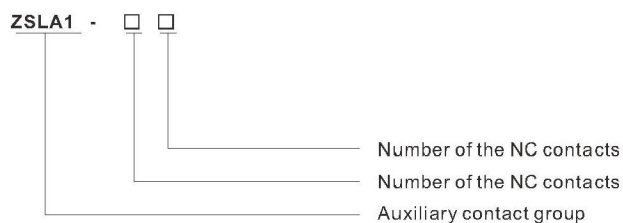
ZSLA1-DN Series Auxiliary Contact

APPLICATION

ZSLA1 series contactor type really it is used to enlarge the number for auxiliary contact pairs, Contact function of sliding is adopted in auxiliary group, it can self-clean, so as to ensure making circuit. La1 series auxiliary contact group is divided into 8 following specs: F4-11, 02, 13, 31, 22, 40, 04.

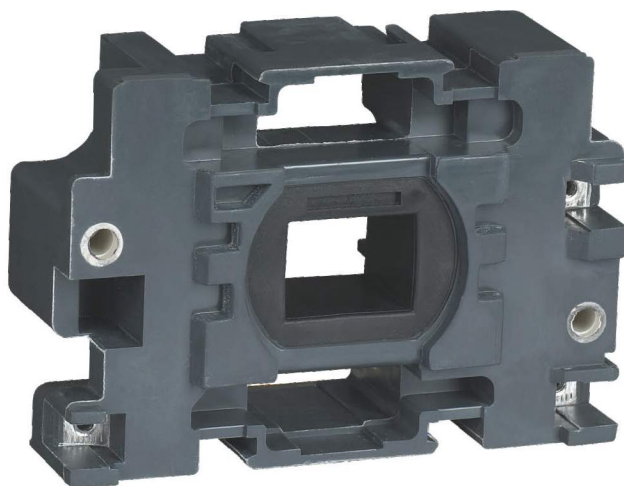
ZSLA1-DN series Auxiliary contact group can be fixed on top of JZC4 series contactor type relay of CJX2 series AC contactor, it is used to enlarge the number for auxiliary contact pairs, Contact function of sliding is adopted in auxiliary group, it can self-clean, so as to ensure making circuit. F4 series auxiliary contact group is divided into 8 following specs: F4-11, 20, 13, 31, 22.

TYPE AND MEANING



AUXILIARY CONTACT GROUP

Type	Number of the contacts
ZSLA1-02	2NC
ZSLA1-11	1NO+1NC
ZSLA1-20	2NO
ZSLA1-22	2NO+2NC
ZSLA1-40	4NO
ZSLA1-04	4NC
ZSLA1-13	1NO+3NC
ZSLA1-31	3NO+1NC



LX1-40-95

ZSLA2 Series Star-delta Reduced Voltage Starter

APPLICATION

ZSLA2-D time delay auxiliary contact blocks are combined with LC1-DAC contactor & LA1-D Auxiliary contact block into CSLC3-D star delta reduced voltage starter to start motor.

SPECIFICATIONS

Type	Delay range	Number of the delay contacts
ZSLA2-DT0	0.1~3s	NO+NC
ZSLA2-DT2	0.1~30s	
ZSLA2-DT4	10~180s	
ZSLA2-DT2	0.1~30s	
ZSLA2-DT4	10~180s	
ZSLA2-DT2	0.1~3s	



ZSLA2-DT2



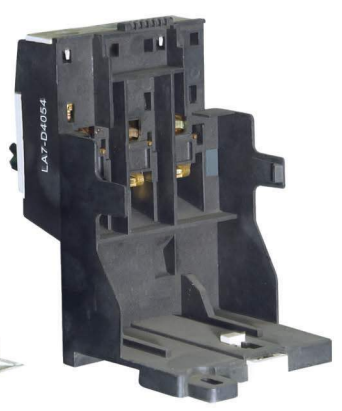
ZSLA2-DT4



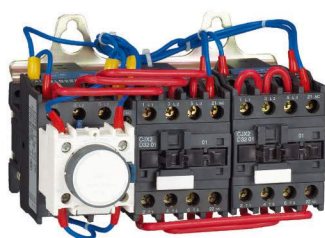
ZSLA8-DN11



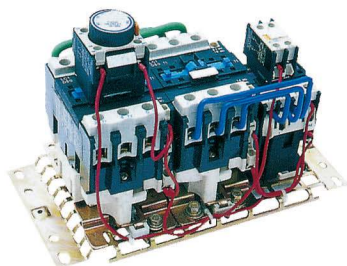
ZSABB



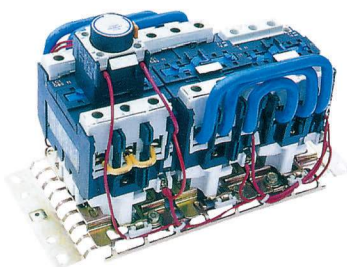
ZSLC1



QJX2(ZSLC3-D183)



QJX2(ZSLC3-D503)



QJX2(ZSLC3-D803)



ZSLC3 Series Star-delta Reduced Voltage Starter

APPLICATION

ZSLC3 series star-delta reduced voltage starter is suitable for starting motor in the circuit of AC 50/60Hz, voltage up to 660V and current up to 95A. It is provided with a timer for automatic changeover of star-delta to reduce the voltage and current of motor starting.

SPECIFICATIONS

Type	Rated operating current(A)	3-Phase motor capacity			
		LOAD DE AC3			
		220V	380V	415V	440V
ZSLC3-093	9	7	7.5	7.5	7.5
ZSLC3-123	12	5.5	11	11	11
ZSLC3-183	17	11	18.5	22	22
ZSLC3-253	25	11	22	22	22
ZSLC3-323	32	15	25	30	30
ZSLC3-403	40	18.5	37	37	37
ZSLC3-503	50	30	55	59	59
ZSLC3-653	65	32	55	59	59
ZSLC3-803	80	37	75	75	75
ZSLC3-953	95	45	80	80	80

PRODUCTS GROUP

AC380V 3-phase cage motor rating current IE power (KW)			Product mode No.	With star-delta reduced voltage starter and thermal relay	Set current range(A)	With fuse
KW	A	A(0.58le)				
7.5	15.5	8.99	ZSLC3-09	JRS1-09	7~10	20
9	18.5	10.7	ZSLC3-12	JRS1-12	10~13	20
10	20	11.6	ZSLC3-12	JRS1-12	10~13	20
11	22	12.8	ZSLC3-18	JRS1-12	13~18	32
15	30	17.4	ZSLC3-25	JRS1-16	13~18	32
18.5	37	21.5	ZSLC3-32	JRS1-25	18~25	50
22	44	25.5	ZSLC3-32	JRS1-32	23~32	63
25	52	30.2	ZSLC3-63	JRS1-32	23~32	63
30	60	34.8	ZSLC3-63	JRS1-63	30~40	80
33	68	39.5	ZSLC3-63	JRS1-63	38~50	80
37	72	41.8	ZSLC3-63	JRS1-63	38~50	100
40	79	45.8	ZSLC3-63	JRS1-63	38~50	100
45	85	49.3	ZSLC3-63	JRS1-63	48~57	100
51	98	56.3	ZSLC3-63	JRS1-63	57~66	125
55	105	60.9	ZSLC3-63	JRS1-63	57~66	125
59	112	65	ZSLC3-80	JRS1-6	63~80	125
63	117	67.9	ZSLC3-80	JRS1-63	63~80	125
75	138	80	ZSLC3-95	JRS1-F1051	75~105	160
80	147	85.3	ZSLC3-95	JRS1-F1051	75~105	160



CJX9-1P/20/40A



CJX9-2P/20-40A



CJX9-3P/30,40A

ZSCJX9 Thru Contactors

FEATURES

Straight-Through Wiring, Replaces 1 ½ Pole Devices Used Primarily in Residential Central Air Conditioning

- Replaces many Type 117 contactors used by OEM's.
- Universal style mounting bracket fits existing mounting holes.
- Screw terminals and ¼" quick connect terminals for easy installation.

Coil Rating

1 Pole Contactors

2 Pole Contactors

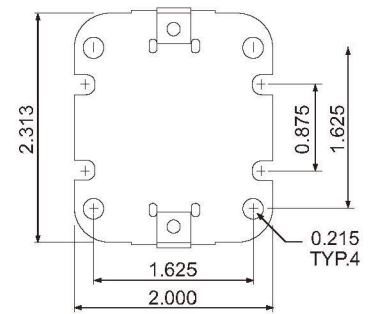
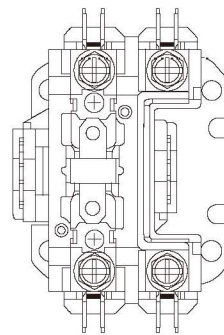
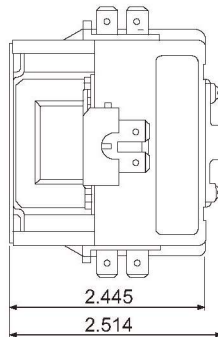
Nominal Coil Voltage	24	120	208/240	277	24	120	208/240	277
Nominal Coil Resistance Ohms	18	420	1800	2500	11	237	1000	1600
Maximum Pick Up Voltage	18	88	177	221	18	88	177	221
Maximum Drop Out Voltage	6-15	20-70	40-140	50-165	6-15	20-70	40-140	50-165
Nominal Lnrush Va@50hz	31	31	31	31	33	33	33	33
Nominal Lnrush Va@60hz	28	28	28	28	30	30	30	30
Nominal Sealed Va@50hz	6	6	6	6	8	8	8	8
Nominal Sealed Va@60hz	5	5	5	5	6.5	6.5	6.5	6.5
Maximum Coil Voltage	30	132	264	300	30	132	264	300

Coil Rating

3 Pole Contactors

4 Pole Contactors

Nominal Coil Voltage	24	120	208/240	277	24	120	208/240	277
Nominal Coil Resistance Ohms	7	180	720	900	6	150	600	750
Maximum Pick Up Voltage	18	88	177	220	18	88	177	220
Maximum Drop Out Voltage	6-15	20-70	40-140	50-185	6-15	20-70	40-140	65-185
Nominal Lnrush Va@50hz	65	65	65	65	62	62	62	62
Nominal Lnrush Va@60hz	60	60	60	60	59	59	59	59
Nominal Sealed Va@50hz	7.5	7.5	7.5	7.5	9	9	9	9
Nominal Sealed Va@60hz	6	6	6	6	7	7	6	7
Maximum Coil Voltage	30	132	264	300	30	132	264	300





ZSS-N10、N11



ZSS-N12



ZSS-N20



ZSS-N21



ZSS-N25、N35



ZSS-N50、N65



ZSS-N80、N95

ZSS-N Series AC Contactor

APPLICATION

ZSS-N series AC contactor are suitable for AC 50Hz or 60Hz, rated voltage up to 660V, mainly used as putting through long distance, breaking circuit and frequently starting or controlling AC motor. It can also be used for counter-connection breaking of squirrel-cage motor in the case of reducing working current.

SPECIFICATIONS

Type			ZS S-N10	ZS S-N11	ZS S-N12	ZS S-N20	ZS S-N21	ZS S-N25	ZS S-N35	ZS S-N50	ZS S-N65	ZS S-N80	ZS S-N95
Ac3 Capacity of 3 phase squirrel-cage motor AC-3	(A) Rated operating current	220V - 240V	2.5	3.5	3.5	5.5	5.5	8.5	12	55	62	85	105
		380V - 440V	4.0	5.5	5.5	11	11	14	20	50	62	85	105
		550V	4.0	5.5	5.5	11	11	14	20	26	35	52	65
		660V	4.0	5.5	5.5	7.5	7.5	14	20	17	19	24	30
	(KW) Rated controlled power	220V - 240V	11	13	13	22	22	30	40	25	32	40	55
		380V - 440V	9	12	12	22	22	30	40	30	40	50	60
		550V	7	9	9	17	17	12	17	2.8	2.8	2.8	2.8
		660V	5	7	7	9	9	12	17	20	20	20	20
Rated heating current ith(A)			20	20	20	32	32	40	40	60	60	60	60



ZSSC-0
ZSSC-03



ZSSC-05



ZSSC-4-0
ZSSC-4-1



ZSSC-5-1

ZSSC Series AC Contactor

APPLICATION

ZSSC AC contactor is suitable for using in the circuits voltage 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 for small volume, light weight, low power consumption, high efficiency, safety, reliability etc. It also can be combined with contact head group, time delay block, relay, thermal relay accessories, into motor starter etc, multiseries products. It conforms with IEC158 & IEC337.

SPECIFICATIONS

Type	Max. Volume of motor				AC operating current(A)				Rated heating current(A)	Aux-contact layout		Life of probability(x104)	
	200-240V	380-440V	500-550V	600-660V	200-240V	380-440V	500-550V	600-660V		Standard	Other	Electrical	Machanical
ZSSC-0	2.5	4	4	4	11	9	7	5	20	1NO	1NC	200	1000
ZSSC-03	3.5	5.5	5.5	5.5	13	12	9	7	20	1NO	1NC	200	1000
ZSSC-05	3.5	5.5	5.5	5.5	13	12	9	7	20	1NO 1NC	2NO 2NC	200	1000
ZSSC-4-0	4.5	7.5	7.5	7.5	18	16	13	9	25	1NO	1NC	150	1000
ZSSC-4-1	5.5	11	11	7.5	22	22	17	9	32	1NO	1NC	200	1000
ZSSC-5-1	5.5	11	11	7.5	22	22	17	9	32	1NO 1NC	2NO 2NC	200	1000
ZSSC-1N	7.5	15	15	11	27	30	24	15	50	2NO 2NC	4NO 4NC	200	1000
ZSSC-2N	11	18	18	15	39	37	29	19	60	2NO 2NC	4NO 4NC	200	1000
ZSSC-2SN	15	22	25	22	52	48	38	26	80	2NO 2NC	4NO 4NC	200	500
ZSSC-3N	18.5	30	37	30	65	65	60	38	100	2NO 2NC	4NO 4NC	200	500
ZSSC-4N	22	40	37	37	80	80	60	44	135	2NO 2NC	4NO 4NC	100	500
ZSSC-5N	30	55	55	55	105	105	85	64	150	2NO 2NC	4NO 4NC	100	500
ZSSC-6N	37	60	60	60	126	120	90	72	150	2NO 2NC	4NO 4NC	100	500



ZSSC-N1
ZSSC-N2



ZSSC-N2S
ZSSC-N3



ZSSC-1N
ZSSC-2N



ZSSC-3N
ZSSC-3N



ZSS-K10
ZSS-K11



ZSS-K12



ZSS-K18



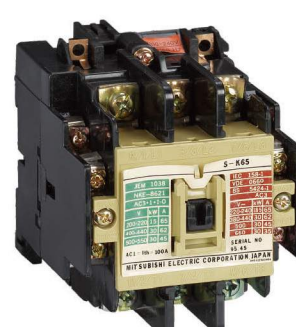
ZSS-K20



ZSS-K21



ZSS-K25, 35



ZSS-K50, 65

ZSS-K Series AC Contactor

APPLICATION

ZSS-K series magnetic AC contactor are a new generation of contactors. The contactor is suitable for making and breaking remote circuits of frequent starting and control-ling of AC motor with 50/60Hz rated voltage up to 660V, rated operating current 9, 12, 16, 22, 30, 40, 50 and 105A at rated operating voltage 380V under the utilization category AC-3.

SPECIFICATIONS

Type		ZS S-K10	ZS S-K11	ZS S-K12	ZS S-K18	ZS S-K20	ZS S-K21	ZS S-K25	ZS S-K35	ZS S-K50	ZS S-K65	ZS S-K85	ZS S-K95
Rated operating current in 220V(A)		11	13	13	18	22	22	30	40	55	65	85	105
Rated operating current in 380V(A)		9	12	12	16	22	22	30	40	50	62	85	105
Rated operating current in 660V(A)		5	7	7	9	9	9	12	17	26	35	52	65
Controlled motor power under AC-3(KW)	at 220V	2.2	3	3	4	5.5	5.5	8.5	12	17	19	24	30
	at 380V	3.3	4	4	6	10	10	14	20	25	32	40	55
	at 660V	3.3	4.5	4.5	5.5	10	10	14	20	30	40	50	60
Coil consumption at rated coil voltage		3.5	3.5	3.5	3.5	5.3	5.3	5.3	5.3	2.8	2.8	2.8	2.8
Rated frequency of operation Ops/hr		1800								1200			
Electric life under AC-3		1×10 ⁶											

Type	UA-AX422	UA-AX431	UA-AX440	UA-AX413	UA-AX404
NO	2	3	4	1	0
NC	2	1	0	3	4

Type	UA-AX211	UA-AX220	UA-AX202	UA-AX2	UA-AX4
NO	1	2	0		
NC	1	0	2		



ZSDIL-00AM
ZSDIL-00AM-10
ZSDIL-00AM-01



ZSDIL-0M



ZSDIL-0M DIL-0AM



ZSDIL-1M DIL-1AM



ZSDIL-2M DIL-2AM

ZSDIL Series AC Contactor

APPLICATION

ZSDIL Series AC contactor is suitable for circuit of AC 50Hz or 60Hz, voltage up to 660V, current up to 90A, to make and break circuit and frequently start and control AC motor in a far distance.

SPECIFICATIONS

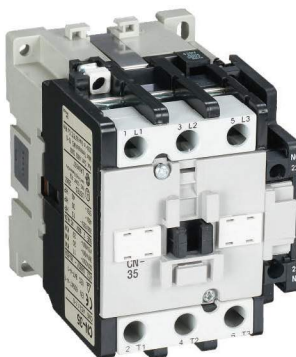
Type	conventional thermal current(A)	380VAC-3(A) Rated operating current 380V AC-3(A)	Max power of controllable motor		
			220V	660V	380V
ZSDIL-00M ZSDIL-00M-10 ZSDIL-00M-01	20	9	2.2	4	5.5
ZSDIL-00AM ZSDIL-00AM-10 ZSDIL-00AM-01	20	12	3	5.5	7.5
ZSDIL-0M	35	16	4	7.5	11
ZSDIL-0AM	35	25	5.5	11	15
ZSDIL-1M	55	32	7.5	15	18.5
ZSDIL-1AM	55	40	11	18.5	22
ZSDIL-2M	90	50	15	22	30
ZSDIL-2AM	90	63	18.5	30	27



ZSCN-11, 16



ZSCN-18



ZSCN-25,35

ZSCN Series AC Contactor

APPLICATION

ZSCN series AC is suitable for circuit of AC or 60Hz, voltage up to 500V and current up to 50A, to make and break circuit and infrequently start and control AC motor in a far distance, it can be assembled into a building block type auxiliary contact bank or a mechanical interlocking mechanism, besides, it can be installed with thermal relay directly to form an electromagnetic starter.

SPECIFICATIONS

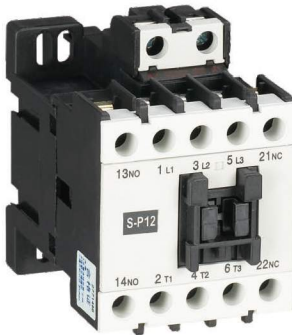
Type	Rated insulated voltage U _i V	conven- tiona l thermal current (A)	380VAC-3(A) Rated operating voltage U _e V	Rated operating current & operating frequency under intermittent periodic duty(I _e)				AC-3 Pe KW	Attracting voltage 50/60Hz (V)	Remark	
				AV-3		AC-4					
				I _e A	operating frequeny1/h	I _e A	operating frequeny1/h				
ZSCN-11	500	25	200-220	12	1200	3.3	300	3	0.85	In addition two nails and card-rail 35mm to install.	
			380-440	11				4			
ZSCN-16		25	200-220	16	1200	4.8	300	4			
			380-440	15				5.5			
ZSCN-18		35	200-220	23	1200	8.5	300	5.5			1.1 S
			380-440	21				9			
ZSCN-25		50	200-220	30	800	11	120	7.5			
			380-440	30				15			
ZSCN-35		80	200-220	42	800	16	120	11			
			380-440	37				18.5			

Type	UA-AX422	UA-AX431	UA-AX440	UA-AX413
NO	2	3	4	1
NC	2	1	0	3

Type	UA-AX404	UA-AX211	UA-AX220	UA-AX202
NO	0	1	2	0
NC	4	1	0	2



ZSS-P11



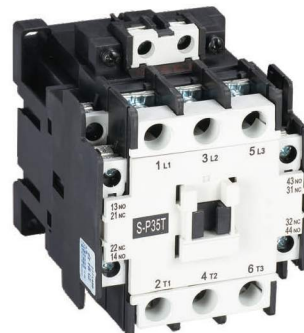
ZSS-P12



ZSS-P16



ZSS-P21



ZSS-P35



ZSS-P60

ZSS-P Series Magnetic Contactor

APPLCATION

ZSS-P series AC contactor is suitable for circuit of AC 50Hz or 60Hz,voltage up to660V,to make and break circuit and frequently start and control AC motor in a far distance.

SPECIFICATIONS

Type			S-P11			S-P12			S-P16			S-P21			S-P25			
Rated capacity of motor			KW	HP	A	KW	HP	A	KW	HP	A	KW	HP	A	KW	HP	A	
CNS C4084 JIS C8325 JEM 1038 AC3 Rated capacity	Single-phase	100~110V	0.55	0.75	12	0.55	0.75	12	0.75	1	16	1.1	1.5	24	1.1	1.5	24	
		200~220V	1.1	1.5	12	1.1	1.5	12	1.5	2	16	2.2	5	24	2.2	3	24	
	Three-phase	200~220V	3	4	12	3	4	12	3.7	5	16	5.5	7.5	24	6.5	8.5	26	
		380~440V	4	5.5	9	4	5.5	9	5.5	7.5	12	11	15	21	22	16	23	
		500~550V	4	5.5	7	4	5.5	7	5.5	7.5	10	11	15	17	22	16	20	
Continuous making current Rated capacity of class Ac1 resistance load (Ith)(A)			20			20			30			40			40			
Rated insulated voltage(Ui)(V)			AC600			AC600			AC600			AC600			AC600			
IEC 60947-4-1		Three-phase	240V	3.5	4.5	13	3.5	4.5	13	4.5	6	18	5.5	7.5	24	6.5	8.5	26
EN 60947-4-1			440V	5.5	7.5	12	5.5	7.5	12	7.5	10	16	11	15	21	12	16	23
DIN VDE 0660			550V	5.5	7.5	9	5.5	7.5	9	7.5	10	13	11	15	17	12	16	20
Class Ac3 rated capacity			660V	5.5	7.5	7	5.5	7.5	7	7.5	10	9	11	15	14	12	16	16

Type			S-P30			S-P35			S-P40			S-P50			S-P60			
Rated capacity of motor			KW	HP	A	KW	HP	A	KW	HP	A	KW	HP	A	KW	HP	A	
CNS C4084 JIS C8325 JEM 1038 AC3 Rated capacity	Single-phase	100~110V	1.5	2	30	1.8	2.5	35	1.8	2.5	35	2.2	3	44	3	4	58	
		200~220V	3	4	30	3.7	5	35	3.7	5	35	4	5.5	44	5.5	7.5	58	
	Three-phase	200~220V	7.5	10	30	9	12.5	35	9	12.5	35	11	15	44	15	20	58	
		380~440V	15	20	27	15	20	27	15	20	27	22	30	40	30	40	52	
		500~550V	15	20	22	15	20	22	15	20	22	22	30	32	30	40	41	
Continuous making current Rated capacity of class Ac1 resistance load (Ith)(A)			50			50			65			80			100			
Rated insulated voltage(Ui)(V)			AC600			AC600			AC600			AC600			AC600			
IEC 60947-4-1		Three-phase	240V	7.5	10	30	9	12.5	35	11	15	44	15	20	58	19	25	65
EN 60947-4-1			440V	15	20	27	15	20	27	22	30	40	30	40	52	37	50	65
DIN VDE 0660			550V	15	20	22	15	20	22	22	30	32	30	40	41	37	50	52
Class Ac3 rated capacity			660V	15	20	18	15	20	18	22	30	26	30	40	34	37	50	43

ZSPAK-H AC CONTACTOR

APPLCCATION

ZSPAK-H series AC contactor is suitable for circuit of AC 50Hz or 60Hz,voltage up to 500V and current up to 60A,to make and break circuit and frequently start and control AC motor in a far distance,it can be installed with thermal relay directly to form an electromagnetic starter.

SPECIFICATIONS



ZSPAK-6H
ZSPAK-11H



ZSPAK-12H
ZSPAK-18H



ZSPAK-20H
ZSPAK-25H
ZSPAK-35H

Type	Rated insulated voltage U_i V	Conventional thermal current A	Rated operating voltage U_e V	Rated operating current & operating frequency under intermittent periodic duty (I_e)				AC-3 P_e KW
				AV-3		AV-4		
				I_e A	operating frequency 1/h	I_e A	operating frequency 1/h	
ZSPAK-6H	500	15	200~220	9	1200	3	300	1.5
			380~440	6				2.2
ZSPAK-11HK		20	200~220	12	1200	3.3	300	2.2
			380~440	9				4
ZSPAK-12H		26	200~220	18	1200	4.8	300	3.7
			380~440	13				5.5
ZSPAK-18H		28	200~220	20	1200	8.5	200	4
			380~440	17				7.5
ZSPAK-20H		40	200~220	22	800	8.5	120	5.5
			380~440	20				11
ZSPAK-25H		45	200~220	30	800	11	120	7.5
			380~440	25				15
ZSPAK-35H		60	200~220	40	600	16	120	11
			380~440	35				22

Type	MA-306A	MA-406A	MA-406A	MA-415A
Qty.of NO contact	3	4	4	4
Qty.of NO contact	3	4	4	4



ZSM-11CL



ZSM-15CL



ZSM-16CL



ZSM-21CL

ZSM-CL AC CONTACTOR

APPLCCATION

ZSM-CL series AC contactor is suitable for circuit of AC 50Hz or 60Hz,voltage up to 500V,current up to 65A,to make and break circuit and frequently control AC motor in a certain power range in a far distance,besides,it can protect against loss of voltage,and be assembled with thermal overload protection equipment to form a motor starter that can protect the circuit against possible overload.

SPECIFICATIONS

Type	Rated insulated voltage U_i V	Conventional thermal current A	Rated operating voltage U_e V	Rated operating current & operating frequency under intermittent periodic duty (I_e)				AC-3 P_e KW
				AV-3		AV-4		
				I_e A	operating frequency 1/h	I_e A	operating frequency 1/h	
M-11CL	50	20	200~220	12	1200	3.3	300	3
			380~440	9				4
M-12.1SCL		20	200~220	12	1200	4	300	3.7
			380~440	9				4.5
M-16CL		30	200~220	16	1200	4.8	300	3.7
			380~440	12				5.5
M-20.21CL		40	200~220	24	1200	8.5	200	5.5
			380~440	21				11
M-30.35CL		50	200~220	30	800	11	120	7.5
			380~440	27				15
M-40CL		65	200~220	44	800	16	120	11
			380~440	40				22
M-50CL		80	200~220	58	600	20.5	120	15
			380~440	52				30
M-60CL		100	200~220	68	600	26	120	19
			380~440	65				37



ZSM-35CL
ZSM-40CL



ZSM-60CL
ZSM-50CL



ZSCJ20-25



ZSCJ20-63



ZSCJ20-160



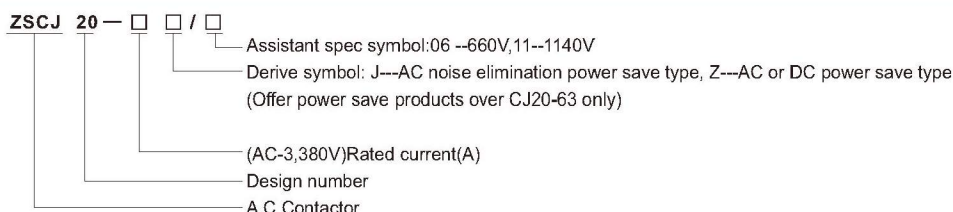
ZSCJ20-630

ZSCJ20 Series AC Contactor

APPLICATION

ZSCJ20 series AC contactors are suitable for frequency 50Hz/60Hz, rated voltage up to 660V, rated current up to 630A. It is mainly used for making or 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 product accords with such standards as IEC60947-4-1 & GB14048.4.

TYPE AND MEANING



SPECIFICATIONS AND TECHNICAL PERFORMANCE

Type	Rated insulation voltage(V)	Rated operating voltage Ue(V)	Conve- nction althermal current (A)	Rated operating current (AC-3)(A)	Rated control power (kW)	Rated Switching frequency (AC-31) (h)	electric endurance (AC-3) × 10 ⁴	Mechanical endurance (x10 ⁴)	Conve- nction althermal current (A)
ZSCJ20-10	660	220	10	10	2.2	1200	1.0	10.0	10.0
		380		10	4	1200			
		660		5.2	4	600			
ZSCJ20-16		220	16	16	4.5	1200	1.0	10.0	10.0
		380		16	7.5	1200			
		660		13	11	600			
ZSCJ20-25		220	32	25	5.5	1200	1.0	10.0	10.0
		380		25	11	1200			
		660		14.5	13	600			
ZSCJ20-40		220	55	40	11	1200	1.0	10.0	10.0
		380		40	22	1200			
		660		25	22	600			
ZSCJ20-63	220	80	63	18	1200	1.2	10.0	10.0	
	380		63	30	1200				
	660		40	35	600				
ZSCJ20-100	220	125	100	28	1200	1.2	10.0	10.0	
	380		100	50	1200				
	660		63	50	600				
ZSCJ20-160	220	200	160	48	1200	1.2	10.0	10.0	
	380		160	85	1200				
	660		100	85	600				
ZSCJ20-160/11	1140	1140		80	85	300			
ZSCJ20-250	660	220	315	250	80	600	0.6	6.0	10.0
ZSCJ20-250/06		380		250	132	600			
		660		200	190	300			
ZSCJ20-400		220	400	400	115	600	0.6	6.0	10.0
		380		400	200	600			
ZSCJ20-400/06		660		250	220	300			
ZSCJ20-630		220	630	630	175	600	0.6	6.0	10.0
		380		630	300	600			
ZSCJ20-630/06		660	400	400	350	300			
ZSCJ20-630/11	1140	1140		400	400	120			

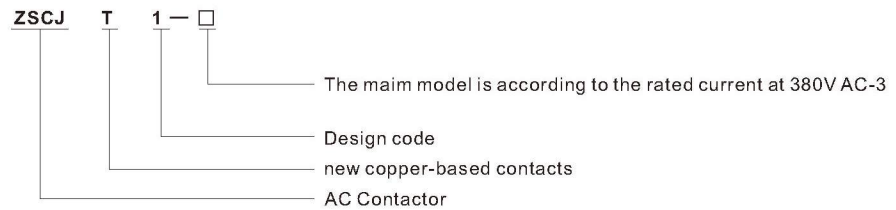
ZSCJT1 Series AC Contactor

APPLICATION

ZSCJT1 Series AC contactor is mainly used for remove frequently making and preaking circuit in the power system of AC 50Hz or 60Hz, rated voltage to 380V, current to 150A. And it can be formed motor stater with the rmal relay or electron protective device for protecting from overload circuit.

The product accords with such standards as IEC60947-4-1 & GB14048.4、GB/T8730, It' s CSCJ10 upgade replacement product.

TYPE AND MEANING



SPECIFICATIONS AND TECHNICAL PERFORMANCE

Main Specifications of CJT1 series AC Contactor

According to the current rating: 10A、20A、40A、60A、100A、150A

According to the contactor coil rated control supply voltage U_s is divided into:

Communication AC50Hz: 36V、110V、127V、220V、380V。

Current: 10A, 20A, 40A, 60A, 100A, 150A

Action conditions

close voltage(85%~110%)

Release voltage(20%~75%);

Technical parameter(ref. Form)

Type		ZSCJT1-10	ZSCJT1-20	ZSCJT1-40	ZSCJT1-60	ZSCJT1-100	ZSCJT1-150
Rated insulation voltage & working current (V)		380	380	380	380	380	380
(AC-1~AC-4,380V)(A) Rated operating current		10	20	40	60	100	150
Rated control power AC-3(kW)	220V	2.2	5.8	11	17	28	43
	380V	4	10	20	30	50	75
Per hour cycle of operation(h)		AC-1、AC-3For the600, AC-2、AC-4For the300 ZSCJT1-150 AC-4For the120					
Electril Mechanical endurance(x10 ⁵)	AC-3	60	60	60	60	60	60
	AC-4	2	2	2	1	1	0.6
Mechanical endurance(million timex10 ⁵)		300	300	300	300	300	300
Auxiliary contact		2NO+NC, AC-15 180V; DC-13 60W lth; 5A					
Fuses allocation		RT16-20	RT16-50	RT16-80	RT16-160	RT16-250	RT16-315
Coil power consumption (VA)	Starting power	65	140	230	485	760	950
	Maintain power	11	22	32	95	105	110



ZSCJT1-10A



ZSCJT1-40A



ZSCJT1-100A



ZSCJT1-150A



ZSGTH-22



ZSGTH-40



ZSGTH-85

ZSGTH Series Hot Overload Relay

APPLICATION

ZSGTH The thermal overload relay protect the motors overload, locking, open phase (differential)

SPECIFICATIONS

Ratings	Type	ZSGTH-22			ZSGTH-40			ZSGTH-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 Number		standard			standard			standard		
Aux. Contact		option			option			option		
Reset type		1NO 1NC			1NO 1NC			1NO 1NC		
		Auto/manual			Auto/manual			Auto/manual		



ZSLR1-093



ZSLR1-403



ZSLRD-13



ZSLR2-K

ZSLR1 Hot Overload Relay

APPLICATION

ZSLR1 series thermal relay is suitable for thermal protection in the circuit with AC 50 or 60Hz, voltage up to 660V, motor power up to 45KW or less. It has differential attachment and automatic temperature compensating function. It can be fixed on to contactor and can also be fixed independently.

The product is made in accordance with IEC292-1.

SPECIFICATIONS

Type	Adjusting range of current(A)	Control power(AC3) (KW)					Plug in contactor
		220V	380V	415V	440V	660V	
ZSLR1-D09301	0.1~0.16						LC1-D09-25
ZSLR1-D09302	0.16~0.25						LC1-D09-25
ZSLR1-D09303	0.25~0.40						LC1-D09-25
ZSLR1-D09304	0.40~0.63					0.37	LC1-D09-25
ZSLR1-D09305	0.63~1					0.55	LC1-D09-25
ZSLR1-D09306	1~1.6		0.37		0.55	0.7~1.1	LC1-D09-25
ZSLR1-D09307	1.6~2.5	0.37	0.55~0.75	1.1	0.75~1.1	1.5	LC1-D09-25
ZSLR1-D09308	2.5~4	0.55~0.75	1.1~1.5	1.5	1.5	2.2~3	LC1-D09-25
ZSLR1-D09310	4~6	1.1	2.2	2.2	2.2	4	LC1-D09-25
ZSLR1-D09312	5.5~8	1.5	3	3~3.7	3~3.7	5.5	LC1-D09-25
ZSLR1-D09314	7~10	2.2	4	4	4	7.5	LC1-D09-25
ZSLR1-D12316	10~13	3	5.5	5.5	5.5	10	LC1-D09-25
ZSLR1-D16321	13~18	4	7.5	9	9	15	LC1-D09-25
ZSLR1-D25322	18~25	5.5	11	11	11	18.5	LC1-D09-25
ZSLR1-D40353	23~32	7.5	15	15	15	22	LC1-D40、50、60
ZSLR1-D40355	30~40	10	18.5	22	22	30	LC1-D40、50、60
ZSLR1-D63357	38~50	11	22	25	25	37	LC1-D40、50、60
ZSLR1-D63359	48~57	15	25	30	30	45	LC1-D40、50、60
ZSLR1-D63361	57~66	18.5	30	37	37	55	LC1-D40、50、60
ZSLR1-D80363	63~80	22	33~37	40~45	40~45	59~63	LC1-D80

LR2-K Thermal Overload Relay

Type	Current setting range	Dimension	G.W(kg)	N.W(kg)
LR2-K0301	0.1~0.16	36.5 × 25 × 34 100pcs	18	17
LR2-K0302	0.16~0.25			
LR2-K0303	0.25~0.3			
LR2-K0304	0.3~0.54			
LR2-K0305	0.54~0.8			
LR2-K0306	0.8~1.2			
LR2-K0307	1.2~1.8			
LR2-K0308	1.8~2.6			
LR2-K0310	2.6~3.7			
LR2-K0312	3.7~5.5			
LR2-K0314	5.5~8			
LR2-K0316	8~11.5			



ZSLR2-D13



ZSLR2-D23



ZSLR2-D33



ZSLR2-D43

ZSLR2 Hot Overload Relay

APPLICATION

ZSLR2 series of thermal relay can be used in the circuit of 50Hz or 60Hz, rated insulation voltage 660V, rated current 0.1-0.93A for protecting the phase break when the electric motor is overload.

The relay has different mechanism and temperature compensation & can be plugged in LC1-D series AC contact. It is the most advanced thermal relay in the nineties in the world.

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 list 1)

b. Auxiliary Circuit

(a). There are one pair of NO/ and /NC contact with electric insulation.

(B). Rated insulation Voltage 500V.

(C). Rated frequency 50-60Hz.

(D). Use group, rated working voltage, appoint thermal current and rated current.

SPECIFICATIONS

Type	Rated working current of thermal relay		Thermal component	
			Rated current (A)	Rated or scale of rated current(A)
ZSLR2-D13	25	ZSLR2-D1301	0.16	0.10-0.16
		1302	0.25	0.16-0.25
		1303	0.40	0.25-0.40
		1304	0.63	0.40-0.63
		1305	1.0	0.63-1.0
		1306	1.6	1.0-1.6
		13X6	2.0	1.25-2.0
		1307	2.5	1.6-2.5
		1308	4.0	2.5-4.0
		1310	6.0	4.0-6.0
		1312	8.0	5.5-8.0
		1314	10.0	7.0-10.0
		1316	13.0	9.0-13.0
		1321	18.0	12.0-18.0
ZSLR2-D23	36	ZSLR2-D2353	32	23.0-32.0
		2355	36	28.0-36.0
		ZSLR2-D3353	32	23.0-32.0
ZSLR2-D33	93	3355	40	30.0-40.0
		3357	50	37.0-50.0
		3359	65	48.0-65.0
		3361	70	55.0-70.0
		3363	80	63.0-80.0
		3365	93	80.0-93.0
		ZSLR2-D4365	104	83.0-104.0
ZSLR2-D43	120	4367	120	95.0-120.0
		4369	140	110-140.0



ZS3UA-50、52



ZS3UA-54



ZS3UA-59



ZS3UA-62
ZS3UA-66
ZS3UA-68

ZS3UA Thermal Realy

APPLICATION

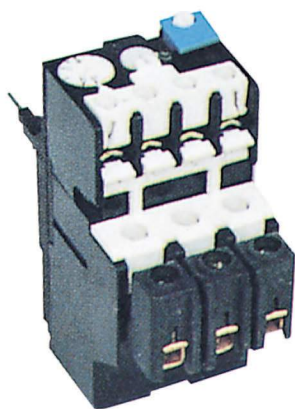
ZS3UA series thermal realy is suitabel for using in power system with AC 50Hz, rated operation voltage up to 660V and 1000V, in main cirucuit, current from 0.1A to 630A. It is used to protect AC three-phase asynchronous motor against overload and open-phase. The realys have the best push-button for breaking NC contacts and the operating indication and free trip characteristics. The products also can be supplied with protecting case to ensure safety. The products can plug in the contactor and install independently or mount by rail.

SPECIFICATIONS

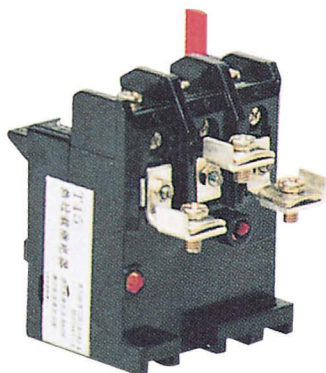
Type	Rated operating current(A)	Rated insulation voltage	Current Setting range
ZS3UA50	12.5	660	0.1~0.16,0.16~0.25,0.25~0.4,0.32~0.63, 0.63~0.1,0.8~1.25,1~1.6,1.25~2,1.6~2.5, 2~3.2,2.5~4,3.2~5,4~6.3,5~8,6.3~10,8~12.5
ZS3UA52	25	660	0.1~0.16,0.16~0.25,0.25~0.4,0.32~0.63, 1.63~1,0.8~1.25,1~1.6,1.25~2,1.6~2.5, 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
ZS3UA54	32	660	4~6.3,6.3~10,10~16,12.5~20,16~25,20~2
ZS3UA58	80	660	16~25,20~32,25~40,32~50, 40~57,50~63,57~70,63~80
ZS3UA59	63	660	0.1~0.16,0.16~0.25,0.25~0.4,0.4~0.63, 1.63~1,0.8~1.25,1~1.6,1.25~2,1.6~2.5, 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 40~57,50~3
ZS3UA62	180	660	55~80,63~90,80~110,90~120,110~135 120~150,135~160,150~180
ZS3UA66	400	1000	80~125,125~200,200~320,250~400
ZS3UA68	630	1000	320~500,400~630



ZST16



ZST25



ZST45

ZST Hot Overload Relay

APPLICATION

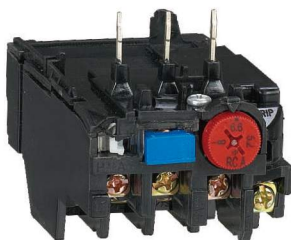
The relay is suitable for using in the power circuits up to rated voltage 660V, rated current 500A 50Hz or 60 Hz for overload and loss of phase protection of three phases induction motor and often combined with B series AC contactor into magnetic starter.

ZST16 & ZST25 thermal relays have a friction trip operating mechanism with loss of phase running protection, pullback spring trip operating mechanism (jump mechanism) with loss of phase protection for T85 & TSA45, main circuit with instrument transformer jump mechanism with loss of phase for T250 & T370.

SPECIFICATIONS

Type	Rated current (A)	Thermal element setting current range(A)	Auxiliary contacts	
			Number	Rated operating current (A)
ZST16	16	0.11~17.6	1NO,1NC	220V:3 380V:2 500V:1
ZST25	25	0.17~32		
ZST45	45	0.28~48	1NO,1NC	220V:3、1.7 380V:2、1.3 500V:1.5
ZST85	85	6.0~100		
ZST105	105	27~115	1NO,1NC, 2NC	220V:3、2.5 380V:2、1.3 500V:1.5、0.8
ZST170	170	90~200		
ZST250	250	100~400	1NO,1NC	220V:3、1.7 380V:2、1.3 500V:1.5
ZST370	370	100~500		





ZSTH-K12



ZSTH-K20



ZSTH-K60



ZSTH-P12 ZSTH-P12E



ZSTH-P20 ZSTH-P20E

ZSTH-K Thermal Overload Relay

APPLICATION

TH-K series thermal relay is suitable for circuit of AC 50Hz,60Hz, rated voltage up to 660V, rated current 0.2~65A, to protect AC motor against overload and phase failure.

SPECIFICATIONS

Type	Range of setting current
ZSTH-K12	0.2-0.28, 0.28-0.42, 0.4-0.6, 0.55-0.85, 0.7-1.1, 1-1.6, 1.4-2 1.7-2.5, 2-3, 2.8-4.4, 4-6, 5.2-8, 7-11, 9-13
ZSTH-K20	0.2-0.28, 0.28-0.42, 0.4-0.6, 0.55-0.85, 0.7-1.1, 1-1.6, 1.4-2, 1.7-2.5, 2-3 2.8-4.4, 4-6, 5.2-8, 7-11, 9-13, 12-18, 16-22, 18-26, 24-34, 30-40
ZSTH-K60	12-18, 16-22, 18-26, 24-34, 30-40, 34-50, 43-65, 54-80, 65-93, 85-105
ZSTR-ON	0.1-0.15, 0.15-0.24, 0.24-0.36, 0.36-0.54, 0.48-0.72, 0.64-0.96, 0.8-1.2, 0.95-1.45, 1.4-2.2, 1.7-2.6, 2.2-3.4, 2.8-4.2, 4-6, 5-8, 6-9, 7-11, 9-13
ZSTR-5-1N	0.1-0.15, 0.15-0.24, 0.24-0.36, 0.36-0.54, 0.48-0.72, 0.64-0.96, 0.8-1.2, 0.95-1.45 1.4-2.2, 1.7-2.6, 2.2-3.4, 2.8-4.2, 4-6, 5-8, 6-9, 7-11, 9-13, 12-18, 16-22
ZSTH-N12	0.2-0.28, 0.28-0.42, 0.4-0.6, 0.55-0.85, 0.7-1.1, 1-1.6, 1.4-2 1.7-2.5, 2-3, 2.8-4.4, 4-6, 5.2-8, 7-11, 9-13
ZSTH-N20	0.2-0.28, 0.28-0.42, 0.4-0.6, 0.55-0.85, 0.7-1.1, 1-1.6, 1.4-2, 1.7-2.5, 2-3 2.8-4.4, 4-6, 5.2-8, 7-11, 9-13, 12-18, 16-22, 18-26, 24-34, 30-40

ZSTH Thermal Overload Relays

SPECIFICATIONS

Thermal element no.	2Thermal element	3Thermal element	2Thermal element	3Thermal element
Characteristics	Overload protecting			
Resetting mode	Manual or Auto resetting			
Suitable AC contactor	S-P11, S-P12		S-P16, S-P20 S-P21, S-P30 S-P35, S-P40	
Adjustable range of setting current	Adjust range	Select	Adjust range	Select
	0.19~0.31A	0.25A	0.7~1.1A	0.9A
	0.3~0.5A	0.4A	0.9~1.5A	1.2A
	0.45~0.75A	0.6A	1.3~2.1A	1.7A
	0.7~1.1A	0.9A	1.6~2.6A	2.1A
	0.9~1.5A	1.2A	2.5~4.1A	3.3A
	1.3~2.1A	1.7A	3.4~5.4A	4.4A
	1.6~2.6A	2.1A	5~8A	6.5A
	2.5~4.1A	3.3A	7~11A	9A
	3.4~5.4A	4.4A	9~13A	11A
	5~8A	6.5A	12~18A	15A
	7~11A	9A	17~24A	21A
	9~13A	11A	22~34A	28A
			28~38A	33A
			32~48A	40A
Auxiliary current structure	1ab(1NO 1NC)			



ZSLR9-F53



ZSLR9-F73

ZSLR9-F Thermal Overload Relay

SPECIFICATIONS

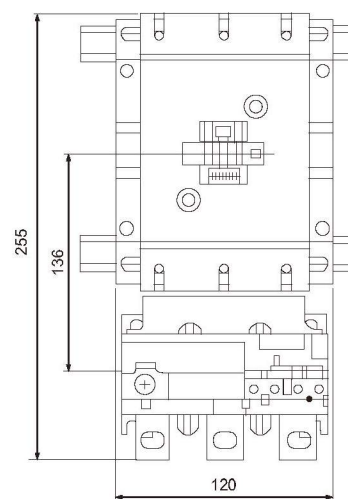
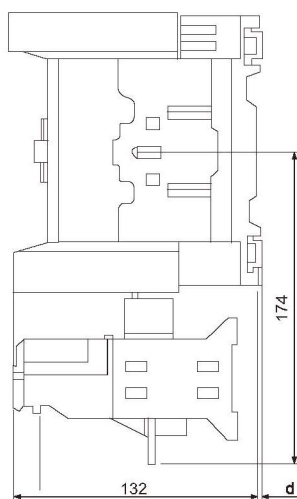
LR9-F Thermal Overload Relay is applicable to protect overload and open-phase of long-time continuous or discontinuous working AC motor in the circuit of AC50/60Hz, current up to 630A, voltage up to 690V. It has features of temperature compensation, action indication, manual and automatic restoration.

SPECIFICATIONS

Type	Number	Setting range	For contactor
ZSLR9-F53	F5357	30-50	F115-F185
	F5363	48-80	F115-F185
	F5367	60-100	F115-F185
	F5369	90-150	F115-F185
	F5371	132-220	F225-F265
ZSLR9-F73	F7375	200-330	F330-F500
	F7379	300-500	F330-F500
	F7381	380-630	F400-F630

Type	Rated operation current(A)	Rated working voltage(Ue)max(V)	Rated insulating voltage(Ui)(V)	Suitable contactor
ZSLR9-F200	80-125	380	690	LC1-Y115
	100-160	380	690	LC1-Y150
	125-160	380	690	LC1-Y185
ZSLR9-F630	160-250	380	690	LC1-Y225
	200-315	380	690	LC1-Y265
	250-400	380	690	LC1-Y330/440
	315-500	380	690	LC1-Y500
	400-630	380	690	LC1-Y630

DIMENSION & MOUNTING SIZES





ZS3RU1116



ZS3RU1126



ZS3RU1136



ZS3RU1146

ZS3RU Series Thermal Relays

APPLICATION

ZS3RU series thermal relays are suitable for using in the power system with AC 50/60Hz, rated operation voltage up to 690-1000V, rated operation current from 0.1A to 100A. They are used to protect AC 3 phase asynchronous motors against overload and phase failure. They also have the functions of temperature compensation and trip indication. The products can be fixed with ZS3R series contactors, or be independently fixed. The items conform to IEC60947-4-1.

MOTION CHARACTERISTIC: THREE-PHASE BALANCE MOTION TIME

No	Set current cinles	Notion time	Start conidition	Temperature
1	1.05	>2h	cold stage	20 ± 5℃
2	1.2	<2h	heat state	
3	1.5	<3min	Following the No.1 test	
4	7.2	10A 2s<TP≤10s ≤63A 10A 2s<TP≤10s >63A	cold stage	

PHASE-LOSING MOTION CHARACTERISTIC

No	Set current cinles		Notion time	Start conidition	Temperature
	Arbitrary two phase	Three phase			
1	1.0	0	>2h	cold stage	20 ± 5℃
2	1.15	0	<2h <3min	heat state Following the No.1 test	

SPECIFICATIONS

Model	Power Controllable Motor(kW)	Set Current Range (A)	Model	Power Controllable Motor(kW)	Set Current Range (A)
ZS3RU 1116	0.04	0.11-0.16	ZS3RU 1126	3	5.5-8
	0.06	0.14-0.2		4	7-10
	0.06	0.18-0.25		5.5	9-12.5
	0.09	0.22-0.32		7.5	11-16
	0.09	0.28-0.4		7.5	14-20
	0.12	0.35-0.5		11	17-22
	0.1	0.45-0.63		11	20-25
	0.18	0.55-0.8	ZS3RU 1136	3	5.5-8
	0.25	0.7-1		4	7-10
	0.37	0.9-1.25		5.5	9-12.5
	0.55	1.1-1.6		7.5	11-16
	0.75	1.4-2		7.5	14-20
	0.75	1.8-2.5		11	18-25
	1.1	2.2-3.2		15	22-32
	1.5	2.8-4		18.5	28-40
	1.5	3.5-5		22	36-46
	2.2	4.5-6.3		22	40-50
ZS3RU 1126	3	5.5-8		11	18-25
	4	7-10	ZS3RU 1136	15	22-32
	5.5	9-12		18.5	28-40
	0.75	1.8-2.5		22	36-50
	1.1	2.2-3.2		30	45-63
ZS3RU 1126	1.5	2.8-4		37	57-75
	1.5	3.5-5		45	70-90
	2.2	4.5-6.3		45	800-100

ZSJR36B Sreies Heat Relay

APPLICATION

ZSJR36B Series thermal relay can be used as overload protect to the long-term or indirect longterm service normal AC motor of AC 50Hz,voltage up to 660V and current 0.25-630A.The relayhas functions of phaseafaiure protecd、temperaturecompensation、dynamic indicating、actionflexible, with manual and automatic reset, also it has a button that can manually break the NC contet, it is an ideal replacement to the、ZSJR16B series with the advantage of reliable operation、elegantappearance and easy installation, it meets thestandard GB 14048.4.

PRODUCT VARIETY、SPECIFICATION

Type of thermal relays;

The thermal relays can be divied into 7 grade according to rated current grede:20、32、63、160、250、400、630A;

Reted current of the thermal relays and the thermal element see table.

Model of Thermal Relay	Reted Current of Thermal Relay(A)	Nr. of Thermal Element		
		Nr.of Element	Rated Current (A)	Current Adjusting Range
ZSJR36B-20	20	1	0.35	0.25~0.35
		2	0.5	0.32~0.5
		3	0.72	0.45~0.72
		4	1.1	0.68~1.1
		5	1.6	1~1.6
		6	2.4	1.5~2.4
		7	3.5	2.2~3.5
		8	5	3.2~5
		9	7.2	4.5~7.2
		10	11	6.8~11
		11	16	10~6
ZSJR36B-32	32	12	22	14~22
		13	16	10~16
		14	22	14~22
ZSJR36B-63	63	15	32	20~32
		16	22	14~22
		17	32	20~32
		18	45	28~45
		19	63	40~63
ZSJR36B-160	160	20	63	40~63
		21	85	53~85
		22	120	75~120
		23	160	100~160
ZSJR36B-250	250	24	200	130~165~200
ZSJR36B-400	400	25	250	160~200~250
		26	300	200~250~00
ZSJR36B-630	630	27	400	250~320~400
		28	500	320~400~500
		29	630	420~525~630

TECHNICAL REQUIREMENTS

No	Rated Current Times	Action Time			Initial Condition	Ambient Temperature
1	1. 05	>2h			Cold state start	20±5℃
2	1. 2	<2h			Thermal State (After No1)	
3	1. 5	10A	<2min	≤32		
		10	<4min	>32		
4	7. 2	10A	2s<Tp≤10s	≤32	Cold state	
		10	4s<Tp≤10s	>32		

ZSJR36B-20、32



ZSJR36B-63



ZSJR36B-160



ZSJR36B-250、400、630

ZSLS Magnetic Force Starter

RATED ULTIMTE



ZSLS-22



ZSLS-40



ZSLS-85



ZSLS-22M



ZSLS-22MB

Type	Rated ultimte					Rated current			Ac1duty
	Single-phase moter		Ac3 duty			Ac3 duty			
	110V	220V	200V-220V	380V-440V	500V-550V	200V-220V	380V-440V	500V-550V	A
ZSLS-9MB	0.4	0.8	2.5	4	4	11	9	7	25
ZSLS-12MB	0.5	1	3.5	5.5	7.5	13	12	12	25
ZSLS-18MB	0.75	1.5	4.5	7.5	7.5	18	18	13	40
ZSLS-22MB	0.9	1.8	5.5	11	15	22	22	22	40
ZSLS-32MB	1.2	-	7.5	15	18.5	32	32	28	50
ZSLS-40MB	1.7	-	11	18.5	22	40	40	32	60
ZSLS-50MB	-	-	15	22	30	55	50	43	80
ZSLS-65MB	-	-	18.5	30	33	65	65	60	100
ZSLS-75MB	-	-	22	37	37	75	75	64	110
ZSLS-85MB	-	-	25	45	45	85	85	75	135

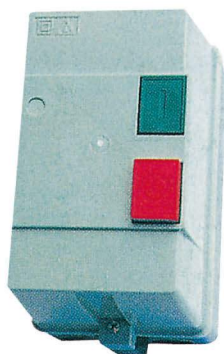
Type		Rated power(kW)					Rated current(A)			AC 1 duty
		1pole motor		AC 3 duty			AC 3 duty			
Without PB	Push button type	110V	220V	220V ~ 220V	380V ~ 440V	500V ~ 550V	220V ~ 220V	380V ~ 440V	500V ~ 550V	A
ZSLS-9	ZSLS-9B	0.4	0.8	2.5	4	4	11	9	7	20
ZSLS-12	ZSLS-12B	0.5	1	3.5	5.5	7.5	12	12	12	20
ZSLS-18	ZSLS-18B	0.75	1.5	4.5	7.5	7.5	18	18	13	25
ZSLS-22M	ZSLS-22MB	0.9	1.8	5.5	11	15	22	22	22	32



ZSLE1-D09,12,18



ZSLE1-D09,12,18



ZSLE1-D25,32



ZSLE1-D40,50,65

ZSLE1-D Series Magnetic Force Starter

APPLICATION

ZSLE1-D magnetic starter is mainly applied to circuit of AC 50/60Hz.voltage up to 660V for far distance making and breaking circuit and frequently starting and controlling motor it has the reatures of small volume light weig ht,low power consumption,high efficiency,safe and reliable performance ect.

SPECIFICATIONS

Product mode No.and specificatiol	ZSLE1-09 and 12	Double in sulated, protected toIP429(3) or, F659(4)
Enclosure	ZSLE1-18 and 25	Double in sulated, protected toIP427(3) or, F557(4)
	ZSLE1-32 and 95	Metal, IP55 to 559
Control(2 push buttons moufited on enclosure cover)	ZSLE1-09 and 95	1 Green start button '1' , 1 Red stop/Teset buttion "O"
Connections	ZSLE1-09 and 95	Electrical power and control recircuit 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

Maximum power Ac3 duty(KW)						Rated current A	Type of enclosure	Code number		Suitable thermal relay
220V 230V	380V 400V	415V	440V	500V	660V 690V			LL (Long life)	NL(3) (Normal life)	
2.2	4	4	4	4	4	9	IP42 IP65	ZSLE1 D094.. ZSLE1 D093..	- -	LR2 D1312 LR2 D1314
3	5.5	5.5	5.5	5.5	5.5	12	IP42 IP55	ZSLE1 D124.. ZSLE1 D123..	ZSLE1 D094.. ZSLE1 D093..	LR2 D1316
4	7.5	9	9	10	10	18	IP42 IP55	ZSLE1 D188.. ZSLE1 D185..	ZSLE1 D124.. ZSLE1 D123..	LR2 D1321
5.5	11	11	11	15	15	25	IP42 IP55	ZSLE1 D258.. ZSLE1 D255..	ZSLE1 D188.. ZSLE1 D185..	LR2 D1322 LR2 D2353
7.5	15	15	15	18.5	18.5	32	IP55	ZSLE1 D325..	ZSLE1 D255..	LR2 D2355
11	18.5	22	22	22	30	40	IP55	ZSLE1 D405..	ZSLE1 D325..	LR2 D3353 LR2 D3355
15	22	25	30	30	33	50	IP55	ZSLE1 D505..	ZSLE1 D405..	LR2 D3357 LR2 D3359
18.5	30	37	37	37	37	65	IP55	ZSLE1 D655..	ZSLE1 D505..	LR2 D3361
22	37	45	45	55	45	80	IP55	ZSLE1 D805..	ZSLE1 D655..	LR2 D3363 LR2 D3365
25	45	45	45	55	45	95	IP55	ZSLE1 D955..	ZSLE1 D805..	LR2 D3365



ZSS-K10, 11



ZSS-K20, 21



ZSS-K25, 35

ZSS-K Magnetic Starter

APPLCCATION

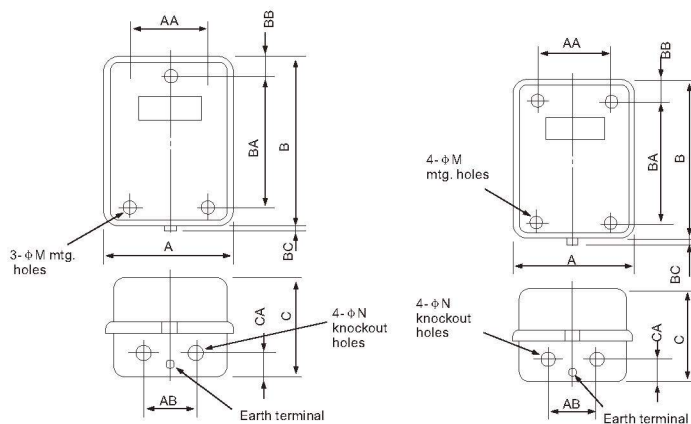
ZSS-Kseries magnetic starter is suitable for circuit of AC 50Hz–60Hz and voltage up to 660V,to start,stop and switch motor and protect it against overload,when the thermal overload relay trips,QCX5 enclosed type can reset easily with pressing OFF button on the enclosure.

SPECIFICATIONS

Type	Rated operating current 380V AC–3(A)	Rated operating power AC–3KW (KW)		
		220V	380V	660V
ZSS-K-9	9	2.5	4	4
ZSS-K-12	12	3.5	5.5	5.5
ZSS-K-22	22	5.5	11	7.5
ZSS-K-22	22	5.5	11	7.5
ZSS-K-30	30	7.5	15	11
ZSS-K-40	40	11	18.5	15

Type	Rated operating current 380V AC–3(A)	Rated operating power AC–3KW (KW)		
		220V	380V	660V
ZSS-N10	9	2.2	3.3	3.3
ZSS-N11	12	3	4	4.5
ZSS-N20	22	5.5	10	10
ZSS-N21	22	5.5	10	10
ZSS-N25	30	8.5	14	14
ZSS-N35	40	12	20	20

Type	A	AA	AB	B	BA	BB	BC	C	CA	M	N	Wt.(kg)
ZSS-K10/K11	76	45	33	159	21	120	6	97.6	21.5	5	22	0.8
ZSS-K12	76	45	33	159	21	120	6	97.5	21.5	5	22	0.8
ZSS-K20	104	76	50	170	15	140	6	110	30	6	22	1
ZSS-K25/K35	135	95	50	225	30	165	6	126	45	6	28	2.0
ZSS-K50	160	120	80	270	25	220	12	145	45	6	22×35	3.2
ZSS-K65	160	120	80	270	25	220	12	145	45	6	22×35	3.2
ZSS-K80/K95	190	150	100	300	20	260	12	163	67	7	22×35	4.0
ZSS-K125	230	170	90	380	25	330	12	190	80	9	44×50	8.0





ZSS-C11



ZSS-C12



ZSS-C16



ZSS-C20, 21

ZSS-C Magnetic Starter

SPECIFICATIONS

Type		ZSS-C11CLPB	ZSS-C12CLPB	ZSS-C16CLPB	ZSS-C20CLPB	ZSS-C21CLPB
AC contactors		M-11CL	M-12CL	M-16CL	M-20CL	M-21CL
Suitable thermal overload relays		TR-12	TR-12	TR-20	TR-20	TR-20
power of contro- llable three- phase motor	Rated volume KW(HP) application category AC-1	200-220V	3(4)		5.5(7.5)	5.5(7.5)
		380-440V	4(5.5)		11(15)	11(15)
		500-550V	4(5.5)		11(15)	11(15)
	Rated current (A) application category AC-1	200-220V	12		24	24
		380-440V	9		21	21
		500-550V	7		17	17
Box type (attached button type)	Dimensions(mm) H: Height H: Box type (attached button type)high					
	Weight(kg) Box type(attached button type)	0.75(0.85)	1.05(1.15)	1.15(1.25)	1.4	1.5(1.7)
IP65dust proof box attached button type	Mounting dimension (mm) H: High					
	Weigh(kg)	0.9	1.2	1.3	-	1.6



ZSADE



ZSADS7



ZSADE7

ZSADS7 Contactor Starters,star Delta Starters

RATINGS

Type	Rated current(A) AC _{415V} (A)	Vrated operating voltage V	
Direct-on-line,surface mounting Direct-on-line,flush mounting Direct-on-line,surface mounting, with isolator	0.74–1.11A	0.37KW	0.5HP
	1.11–1.66A	0.55KW	0.75HP
	1.66–2.50A	1.10KW	1.50HP
	2.50–3.7A	1.50KW	2.00HP
	3.70–5.60A	2.50KW	3.40HP
	5.60–8.40A	4.00KW	5.50HP
	8.40–11.9A	5.50KW	7.50HP
	11.4–16.0A	7.50KW	10.0HP
	16.0–23.0A	11.0KW	15.0HP
	22.0–33.0A	15.0KW	20.0HP

Type	Rated current(A) AC _{415V} (A)	Vrated operating voltage V	
Star–delta,surface mounting	4.30–6.40A	3.00KW	4.00HP
	6.40–9.70A	5.00KW	6.80HP
	9.70–14.5A	7.50KW	10.0HP
	14.5–20.6A	10.0KW	13.5HP
	19.7–27.7A	15.5KW	20.0HP
	26.0–38.0A	22.0KW	30.0HP
	38.0–38.0A	30.0KW	40.0HP



ZS3VU13-0.1-25A



ZS3VU13-1-63A

ZS3VU Series circuit breakers

APPLICATION

ZS3VU series circuit breakers 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 to 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 0.1A-63A.

MIN TECHNICAL PARAMETER

Product model No. and specification	Rated current(A)	Motor output(kW)	Setting Current Range(A)		Order No.	Weight approx.(kg)
ZS3VU13			Thermal overload releases	Thermal overload releases		
	0.16		0.1-0.16	1.9	ZS3VU13-XB00	0.29
	0.24	0.06	0.16-0.24	2.9	ZS3VU13-XC00	
	0.4	0.09/0.12	0.24-0.4	4.8	ZS3VU13-XD00	
	0.6	0.12/0.18	0.4-0.6	7.2	ZS3VU13-XE00	
	1	0.25	0.6-1	12	ZS3VU13-XF00	
	1.6	0.37/0.55	1-1.6	19	ZS3VU13-XG00	
	2.4	0.75	1.6-2.4	29	ZS3VU13-XH00	
	3.2	1.1	2-3.2	38	ZS3VU13-NH00	
	4	1.1/1.5	2.4-4	48	ZS3VU13-XJ00	
	5	1.5/2.2	3.2-5	60	ZS3VU13-NJ00	
	6	2.2	4-6	72	ZS3VU13-XK00	
	8	3	5-8	96	ZS3VU13-NK00	
	10		6-10	120	ZS3VU13-XL00	
	13	4/5.5	8-13	156	ZS3VU13-NL00	
	16	7.5	10-16	190	ZS3VU13-XM00	
	20	7.5	14-20	240	ZS3VU13-XN00	
	25	11	18-25	300	ZS3VU13-XP00	
	No auxiliary contacts With auxiliary contacts Integrated in the circuit-breaker				0 1NO+1NC...1 1NO+2NC...2 1NO+2NC...3	

ZS3RV Series circuit breakers

APPLICATION

MIN TECHNICAL PARAMETER



ZS3RV1011-0.25-32A



ZS3RV1021-0.25-32A

Rated current	Applicable three-phase AC electro motor ¹⁾ pn	Setting Current scope of the thermal overload releaser	Momentary excess current releaser	Short circuit and beraking capacity under the condition of AC 400V	The maximum rated current of the breaker to 25A
A	KW	A	A	kA	Order number
0.16	0.04	0.11-0.16	2.1	100	3RV10 11-0AA1.
0.2	0.06	0.14-0.2	2.6	100	3RV10 11-0BA1.
0.25	0.06	0.18-0.25	3.3	100	3RV10 11-0CA1.
0.32	0.09	0.22-0.32	4.2	100	3RV10 11-0DA1.
0.4	0.09	0.28-0.4	5.2	100	3RV10 11-0EA1.
0.5	0.12	0.35-0.5	6.5	100	3RV10 11-0FA1.
0.63	0.18	0.45-0.63	8.2	100	3RV10 11-0GA1.
0.8	0.18	0.55-0.8	10	100	3RV10 11-0HA1.
1	0.25	0.7-1	13	100	3RV10 11-0JA1.
1.25	0.37	0.9-1.25	16	100	3RV10 11-0KA1.
1.6	0.55	1.1-1.6	21	100	3RV10 11-0AA1.
2	0.75	1.4-2	26	100	3RV10 11-0BA1.
2.5	0.75	1.8-2.5	33	100	3RV10 11-0CA1.
3.2	1.1	2.2-3.2	42	100	3RV10 11-0DA1.
4	1.5	2.8-4	52	100	3RV10 11-0EA1.
5	1.5	3.5-5	65	100	3RV10 11-0FA1.
6.3	2.2	4.5-6.3	82	100	3RV10 11-0GA1.
8	3	5.5-8	104	50	3RV10 11-0HA1.
10	4	7-10	130	50	3RV10 11-0JA1.
12	5.5	9-12	156	50	3RV10 11-0KA1.
0.16	0.04	0.11-0.16	2.1	100	3RV10 11-0AA1.
0.2	0.06	0.14-0.2	2.6	100	3RV10 11-0BA1.
0.25	0.06	0.18-0.25	3.3	100	3RV10 11-0CA1.
0.32	0.09	0.22-0.32	4.2	100	3RV10 11-0DA1.
0.4	0.09	0.28-0.4	5.2	100	3RV10 11-0EA1.
0.5	0.12	0.35-0.5	6.5	100	3RV10 11-0FA1.
0.63	0.18	0.45-0.63	8.2	100	3RV10 11-0GA1.
0.8	0.18	0.55-0.8	10	100	3RV10 11-0HA1.
1	0.25	0.7-1	13	100	3RV10 11-0JA1.
1.25	0.37	0.9-1.25	16	100	3RV10 11-0KA1.
1.6	0.55	1.1-1.6	21	100	3RV10 11-0AA1.
2	0.75	1.4-2	26	100100	3RV10 11-0BA1.
2.5	0.75	1.8-2.5	33	100	3RV10 11-0CA1.
3.2	1.1	2.2-3.2	42	100	3RV10 11-0DA1.
4	1.5	2.8-4	52	100	3RV10 11-0EA1.
5	1.5	3.5-5	62	100	3RV10 11-0FA1.
6.3	2.2	4.5-6.3	82	100	3RV10 11-0GA1.
8	3	5.5-8	104	100	3RV10 11-0HA1.
10	4	7-10	130	100	3RV10 11-0JA1.
12.5	5.5	9-12.5	163	100	3RV10 11-0KA1.
16	7.5	11-16	208	50	3RV10 11-0AA1.
20	7.5	14-20	260	50	3RV10 11-0BA1.
22	11	17-22	286	50	3RV10 11-0CA1.
25	11	20-25	325	50	3RV10 11-0DA1..

The recommended data for four-phase standard electromotor under the condition of AC 50Hz,400V.What affects the product most is the factual starting data and rated data of the protected electromotor.



ZSPKZM0-0.1-25

ZSPKZM0 Motor Protective Circuit Breakers

APPLICATION

ZSPKZM0 Motor Protective Circuit Breaker is applicable for the circuit of Ac 50/60Hz, rated insulation voltage 750V, rated operating voltage up to 660V, rated operating current from 0.1 A to 25A. It is used for protecting the motor against overload, short-circuit and phase-failure, It can be also used for starting and breaking the stator of motor and for the circuit protection in the circuit of 25A.

- Compact design
- Screw or DIN rail mounting
- Standard breaking capacity
- Thermal and electromagnetic trip
- Rated operational current up to 25A
- Switching capacity 150/50KA/145V
- Short-circuit release, fixed setting to 14 X I_n
- Single-phasing sensitive
- With screws or spring loaded terminals
- Comply with IEC/EN60947

TECHNICAL PARAMETER

Power of controlled motor 400V P kW	Rated operating current 400V I _{le} A	Range of overload tripping current I _r A	Switching capacity 400V I _q kA
-	0.16	0.1-0.16	100
0.06	0.25	0.16-0.25	100
0.09	0.4	0.25-0.4	100
0.12	0.63	0.4-0.63	100
0.25	1	0.63-1	100
0.55	1.6	1-1.6	100
0.75	2.5	1.6-2.5	100
1.5	4	2.5-4	100
2.2	6.3	4-6.3	100
3	6.6	6.3-10	100
4	10	6.3-10	100
5.5	16	10-16	50
7.5	16	10-16	50
9	20	16-20	50
12.5	25	20-25	50



ZSGV2-M0.1-32A



ZSGV2-ME0.1-32A



ZSGV2-RS0.16-32A

ZSGV2 Series circuit breakers

APPLICATION

ZSGV2 series circuit breakers are mainly used for the overload and short-circuit protection for motors in the circuit of AC 50/60Hz, rated operating voltage up to 660V, rated operating current from 0.1A to 80A, as the full-voltage starters to start and cut off motors under the Ac3 load, and for the circuit protection in the circuit of 0.1A-80A.

ZSV2(GV2)CIRCUIT BREAKERS

ZSGV2-M/ME(GV2-M/M)		ZSGV2-RS	
M/ME01C	0.1-0.16	RS01C	0.1-0.16
M/ME02C	0.16-0.25	RS02C	0.16-0.25
M/ME03C	0.25-0.40	RS03C	0.25-0.40
M/ME04C	0.40-0.63	RS04C	0.40-0.63
M/ME05C	0.63-1	RS05C	0.63-1
M/ME06C	1-1.6	RS06C	1-1.6
M/ME07C	1.6-2.5	RS07C	1.6-2.5
M/ME08C	2.5-4	RS08C	2.5-4
M/ME10C	4-6.3	RS10C	4-6.3
M/ME14C	6-10	RS14C	6-10
M/ME16C	9-14	RS16C	9-14
M/ME18C	10-16	RS18C	10-16
M/ME20C	13-18	RS20C	13-18
M/ME21C	17-23	RS21C	17-23
M/ME22C	20-25	RS22C	20-25
M/ME32C	24-32	RS32C	24-32

ZSV2(GV2)CIRCUIT BREAKERS

The adjusting range of rated current Ie (a)	The standard power of three-phase electric motor kW, AC-350Hz/60Hz					
	230/240V	400V	415V	440V	500V	5690V
0.1-0.16	-	-	-	-	-	-
0.16-0.25	-	-	-	-	-	-
0.25-0.4	-	-	-	-	-	-
0.4-0.63	-	-	-	-	-	0.37
0.63-1	-	-	-	0.37	0.37	0.55
1-1.6	-	0.37	-	0.55	0.55	1.1
1.6-2.5	0.37	0.75	0.75	1.1	1.1	1.5
2.5-4	0.75	1.5	1.5	1.5	2.2	3
4-6.3	1.1	2.2	2.2	3	3.7	4
6-10	2.2	4	4	4	5.5	7.5
9-14	3	5.5	5.5	7.5	7.5	9
13-18	4	7.5	9	9	9	11
17-23	5.5	11	11	11	11	15
20-25	5.5	11	11	11	11	18.5
24-32	7.5	15	15	15	15	23

FUNDAMENTAL PARAMETER

Rated current(A)	Motor output(kW)	Setting Range(A)		Order No.
		Thermal overload releases	Instantaneous overcurrent releases	
1.6	0.37	1-1.6	19	ZSV ₃ (GV ₃)-M06
2.5	0.75	1.6-2.5	30	ZSV ₃ (GV ₃)-M07
4	1.1/1.5	2.5-4	48	ZSV ₃ (GV ₃)-M08
6	2.2	4-6	72	ZSV ₃ (GV ₃)-M10
10	3/4	6-10	120	ZSV ₃ (GV ₃)-M14
16	5.5/7.5	10-16	190	ZSV ₃ (GV ₃)-M20
25	11	16-25	300	ZSV ₃ (GV ₃)-M25
40	18.52	25-40	480	ZSV ₃ (GV ₃)-M40
63	30	40-63	720	ZSV ₃ (GV ₃)-M63
80	40	56-80	960	ZSV ₃ (GV ₃)-M80