Feature

In circuit of Ac 50\60Hz, voltage up to 1000V, current up to 600A, controlling motors of different types.
Control resistance, inductive, capacitive loads: heating, lighting， power compensation and transformer
Control distribution circuit, industrial distribution, green energy distribution.
For harsh environment and frequent operations, quick operating coils are recommend.

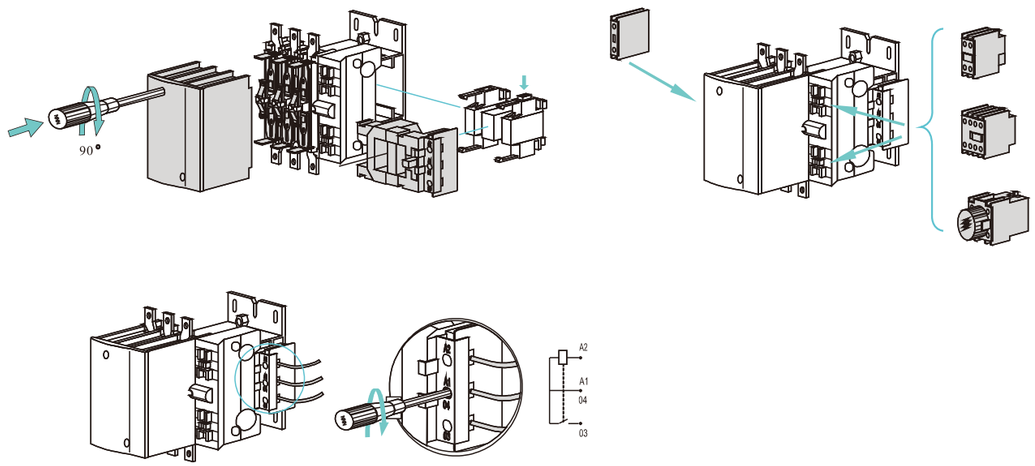
Technical Specification

Contactors		GYC1 115	GYC1 150	GYC1 185	GYC1 225	GYC1 265	GYC1 330	GYC1 400	GYC1 500	GYC1 630	GYC1 780	GYC1 800
Rated operational current A	Ie max AC-3(Ue≤440V)	115	150	185	225	265	330	400	500	630	780	800
	Ie max AC-1(θ≤40°C)	200	250	275	315	350	400	500	700	1000	1600	1000
Rated operational voltage V	max	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Number of contacts(N/O)		3 or 4	3 or 4	3 or 4	3 or 4	3 or 4	2,3or4	2,3or4	2,3or4	2,3or4	2,3or4	3
Rated operational power KW AC-3 3、4poles	220/240V	30	40	55	63	75	100	129	147	200	220	220
	380/400V	55	75	90	100	132	160	200	250	335	400	400
	415V	59	80	100	110	140	180	220	280	375	425	425
	440V	59	80	100	110	140	180	220	280	375	425	425
	500V	75	90	110	129	160	200	257	335	400	450	450
	660/690V	80	100	120	129	180	220	280	335	450	475	475
	1000V	65	65	100	140	147	160	185	335	450	450	450
(SCPD) Short-circuit protection by fuse	Model	RT16-1	RT16-1	RT16-2	RT16-2	RT16-2	RT16-3	RT16-3	RT16-3	RT16-3	RT16-5	RT16-4
	Rated current	200	250	315	315	400	500	500	500	630	1600	800
Optional parts		Auxiliary contact blocks: ZTCF3 Air time delay auxiliary contacts: ZTCST、ZTCSR、ZTCSS										
Weight (Kg)		3.6	3.7	4.6	4.7	7.1	8.5	8.5	10.8	17.4	40.0	19.0
Product No.	3 pole	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010
	4 pole	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	
	2 pole						0025	0026	0027	0028	0029	

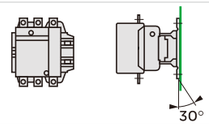
Functions Diagram

Contactors			GYC1 115	GYC1 150	GYC1 185	GYC1 225	GYC1 265	GYC1 330	GYC1 400	GYC1 500	GYC1 630	GYC1 780	GYC1 800
Number of Poles			3/4or4	3/4or4	3/4or4	3/4or4	3 4/3 4	2 3 4/2 3 4	2 3 4/2 3 4	2 3 4/2 3 4	2 3 4/2 3 4	2 3 4/2 3 4	3
Rated operational current (Ue≤400V)	In AC-3,θ≤55°C	A	115	150	185	225	265	330	400	500	630	780	800
	In AC-1,θ≤40°C	A	200	250	275	315	350	400	500	700	800	1600	1000
Rated operational voltage (Ue)	Max.	V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency limits	Frequency under operating current	Hz	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200	$16^{2/3}$ ...200
Conventional thermal current	θ≤40°C	A	200	250	275	315	350	400	500	700	900	1600	1000
Making capacity	GB14048.4	A	Making current 10XIe(AC-3) or 12XIe(AC-4)										
Breaking capacity I rms	GB14048.4	A	Making and breaking current 8XIe(AC-3) or 10XIe(AC-4)										
Short time rating From cold state, no current in previous 60 minsθ≤40°C	10s	A	1100	1200	1500	1800	2200	2650	3600	4200	5050	6250	5500
	30s	A	640	700	920	1000	1230	1800	2400	3200	4400	5600	4600
	1min	A	520	600	740	850	950	1300	1700	2400	3400	4600	3600
	3min	A	400	450	500	560	620	900	1200	1500	2200	3000	2600
	10min	A	320	350	400	440	480	750	1000	1200	1600	22200	1700
Average impedance per pole	Ith 50Hz	mΩ	0.37	0.35	0.33	0.32	0.3	0.28	0.26	0.18	0.12	0.10	0.12
Power dissipation per pole for the above operational currents	AC-3	W	5	8	12	16	21	30	42	45	48	60	77
	AC-1	W	15	22	25	32	37	45	65	88	77	250	120
Cablingθ≤55°C	The maximum cross -sectional area number of cables dimension of cables	mm^2	2 20x3	2 25x3	2 25x3	2 32x3	2 32x4	2 30x5	2 30x5	2 40x5	2 60x5	2 100x5	2 60x5
	Cable with tabs	mm^2	95	120	150	185	240	240	2*150	2*240	-	-	-
	Cables with connectors	mm^2	95	120	150	185	240	-	-	-	-	-	-
	Bolt diameter	mm	Φ6	Φ8	Φ8	Φ10	Φ10	Φ10	Φ10	Φ10	Φ12	Φ12	Φ12
Tightening torque	Cable connetion	N.m	10	18	18	35	35	35	35	35	58	58	58

Scheme



Characteristic

Contactors			GYC1 115	GYC1 150	GYC1 185	GYC1 225	GYC1 265	GYC1 330	GYC1 400	GYC1 630	GYC1 330	GYC1 400	GYC1 630
Environment	Conforming to standards IEC60947												
Rated insulation voltage（Ui）		V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage（Uimp）		KV	8	8	8	8	8	8	8	8	8	8	8
Rated operational voltage（Ue）max		V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Operational current frequency range		Hz	25-400										
Conforming to standards			IEC60947, GB14048, EN60947										
Ambient air temperature	Storage	℃	-60...+80										
	Operatio	℃	-5...+55										
	Permissible for operation	℃	-40...+70										
Maximum operating altitude		m	2000										
	Operating altitude allowed	m	3000										
Humidity			Maximum relative humidity less than 50% below 40℃, Maximum relative humidity less than 90% below 20℃										
Impact resistance capability 1/2 sine wave = 11ms	Contactor opens		9gn	9gn	9gn	9gn	9gn	9gn	9gn	9gn	9gn	9gn	9gn
	Contactor closes		15gn	15gn	15gn	15gn	15gn	15gn	15gn	15gn	15gn	15gn	15gn
Seismic performance	Contactor opens		2gn	2gn	2gn	2gn	2gn	2gn	2gn	2gn	2gn	2gn	2gn
	Contactor closes		4gn	4gn	4gn	4gn	4gn	4gn	4gn	4gn	4gn	4gn	4gn
Anti-seismic performance			Pollution degree III										
Degree of protection	Main circuit		Avoid direct contact with the finger (terminal protectioncap)										
	Coil terminals		Avoid direct contact with the finger										
Mounting method	Without deratin		 GYC1 780例外										
	With derating		 Use derating factors as follows: Operation voltage: 0.75,drop-out voltage: 0.9 AC-1 category operating current: 0.8.  Use derating factors as follows: Operation voltage: 1.15,drop-out voltage: 1.1 AC-1 category operating current: 0.8.										
	Forbidden												
Operating frequency	AC-1,AC-2,AC-3	Cycles/h	1200	1200	1200	1200	1200	600	600	600	600	600	600
	AC-4	Cycles/h	300	300	300	300	300	300	300	300	300	300	300
Control circuit characteristics Rated control voltage (Uc)	50/60Hz	V	Please specify control voltage when placing orders, default voltage is 220V.										
Control voltage limits （AC） (θ≤55°C)	Operation voltage	V	0.85-1.1Uc										
	Drop-out voltage (AC)	V	0.2-0.75Uc										
	Drop-out voltage (DC)	V	0.1-0.75Uc										
Average power 50Hz	Inrush (AC)	VA	550	550	810	810	1200	600	1000	1050	1500	1900	1600
	Sealed (DC)	VA	45	45	55	55	85	10	12	16	20	45	22
	Inrush (DC)	VA	550	550	740	740	660	660	920	1000	1420	1960	1450
	Sealed (AC)	VA	4	4	4.2	4.2	3.7	3.7	4	4.5	6.5	42	7