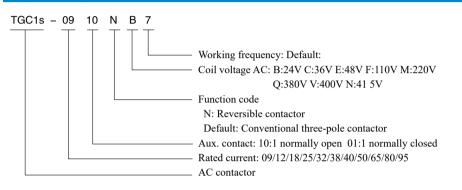




1 Overview

TGC1S(09-95A) series AC contactor is mainly used in the AC 50Hz (or 60Hz) power system with the rated operating voltage up to 660V and with the rated operating current up to 95A at the rated operating voltage 380V under the AC-3 use category for remotely powering on and powering off the circuit, suitable for frequent startup and control of AC motor.

2 Type Designation



3 Main Technical Parameters

Rated operating current Ie	$9A \sim 38A$
Rated operating voltage Ue	220V/230V、380V/400V、660V/690V
Rated insulation voltage	690V
Number of poles	Three poles
Coil control method	AC
Installation method	35mm rail-mounted, screw mounted
Standard	IEC 60947-4-1
Certificaiton	CCC



4 Working and installation conditions

Installation category	Ш
Pollution level	3
Housing protection grade	IP20
Ambient air temperature	Ambient temperature (around the equipment): allowable working temperature -35° C ~ $+70^{\circ}$ C, normal working temperature -5° C ~ $+40^{\circ}$ C; When the ambient temperature is higher than $+40^{\circ}$ C, it is considered that the permissible limit temperature rise of the product will be reduced, the rated operating current (derating coefficient sees table below) must be reduced, and the number of contactors installed in the standard component shall be deceased, otherwise the product may be damaged, the service life may be shortened, the operation reliability may be reduced, and the product operation range may be affect; when the ambient temperature is below -5^{\circ}C, condensation of the grease used in the insulation and lubrication may occur in the too low ambient temperature, thereby resulting in product action failure. therefore, please users are required to contact the manufacturer before design or use.
Altitude	≤2000m
Atmospheric conditions	The relative humidity of the air does not exceed 50% at a maximum temperature of +70°C, and higher relative humidity is allowed at lower temperatures, such as up to 90% at 20°C. Measures are taken for condensation occurred occasionally due to temperature changes.
Installation conditions	The inclination between the mounting surface and the vertical surface is not greater than $\pm 22.5^\circ$
Impact and vibration	Products should be installed and used in places where there is no severe shaking, impact and vibration.

Temperature derating coefficient table:

Ambient temperature °C	40	50	55	60	65	70
Correction coefficient	1	0.98	0.95	0.93	0.875	0.75

5 Main Performance Indicators

	Model			TGC1s-09	TGC1s-12	TGC1s-18	TGC1s-25	TGC1s-32	TGC1s-38	
	220V/23	AC	.3	9	12	18	25	32	38	
	2201/23	AC	-4	3.5	5	7.7	8.5	12	14	
Rated operating	2001///	AC-3		9	12	18	25	32	38	
current (A)	380V/40	AC	-4	3.5	5	7.7	8.5	12	14	
	AC	.3	6.6	8.9	12	18	22	22		
	660V/69	AC	-4	1.5	2	3.8	4.4	7.5	8.9	
Resistive c air (A)	urrent of f	ree		20	20	25	32	40	50	
Rated insul	lation volta	age (V)		690						
Rated impu voltage (kV		and		6						
Controllat	ole three-	220V/230)V	2.2	3	4	5.5	7.5	9	
	phase squirrel cage motor power (AC-3)	380V/400)V	4	5.5	7.5	11	15	18.5	
kV	LW I)V	5.5	7.5	10	15	18.5	18.5	

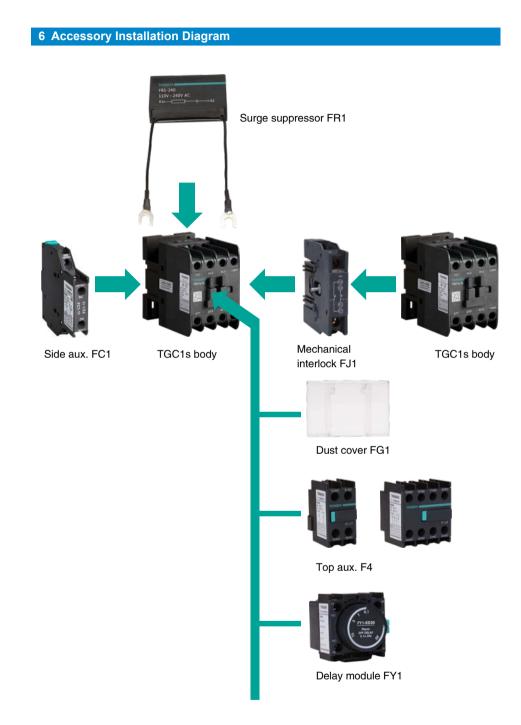


Table, continued

			-											abie, eo	
Model		TGC	1s-09	TGC	1s-12	TGC	21s-18	TGC	1s-25	TGC	1s-32	TGC	1s-38		
Motor po	wer under	220	0V/230V	0	.6	1	.1	1	.5	2	.2		3	4	4
intermitte	nt periodic	380	0V/400V	1	.5	2	.2	3	.3		4	5	.4	5	.5
duty	-type	660	0V/690V	1	.1	1	.5		3	3	.7	5	.5	(5
Operation		cal	AC-3				12	200					6	00	
frequency (times / h			AC-4						3	00					
Electric	al life (10,0	000	AC-3				6	50					5	50	
	times)		AC-4						1	0					
	Mechanica (10,000 tin		1			8	00					5	00		
Model of matched fuse				RT16-00 20 RT16-00 20 RT16-00 25		RT16	-00 40	RT16	-00 50	RT16	-00 63				
	Qty.		1	2	1	2	1	2	1	2	1	2	1	2	
old-	Non- prefabrica terminal flexible wi			1/4	1/4	1/4	1/4	1/4	1/4	1.5/6	1.5/6	1.5/6	1.5/6	1.5/6	1.5/6
pressed terminal	Prefabrica terminal flexible wi	ated mm ²	mm ²	1/4	1/2.5	1/4	1/2.5	1/4	1/2.5	1/6	1/4	1/6	1/4	1/6	1/4
	Non- prefabrica terminal h wire			1/4	1/4	1/4	1/4	1/4	1/4	1.5/10	1.5/6	1.5/10	1.5/6	1.5/10	1.5/6
Size ar	nd tightenin	o tor	raue of	M3.5						M4					
	al block sc					0	.8			1.2					
		Pul	l-in (VA)			7	70					7	0		
AC coil power	50Hz	Но	old (VA)				7			7					
poner		Po	wer (W)			2 ~	~ 3					2 ~	~ 3		
	Operating r	ange		Pull-in voltage: 85%Us ~ 110%Us; Release voltage: 20%Us ~ 75%Us											
Basic pa	rameters of	faux.	. contact	AC-15					: 0.15A/ ent mate): 6kV;

Note: When the rated operating voltage is AC220V/230V, AC380V/400V, the AC-1 rated operating current is equal to the resistive current of free air.

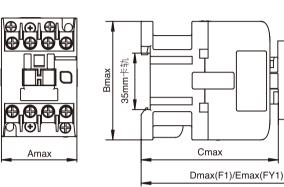


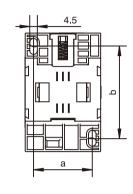




7 Outline and Installation Dimensions

7.1 TGC1s-09~38



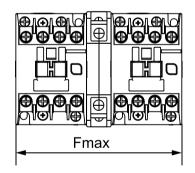


Unit: mm

Fig. 1 TGC1s-09~38 outline and installation dimensions drawings

Spec. & Model	Amax	Bmax	Cmax	Dmax	Emax	а	b	с	d
TGC1s-09 \sim 18	45	71	82	120	140	35	50/60	-	-
TGC1s-25 \sim 38	56	82.5	96	134	154	40	50/60	-	-

7.2 TGC1s-09N~38N



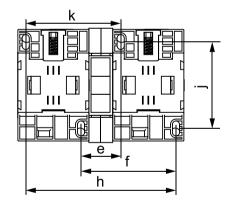


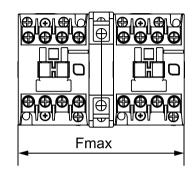
Fig. 2 TGC1s-40~95 outline and installation dimensions drawings

Unit: mm

Spec. & Model	Fmax	е	f	h	j	k
TGC1s-09N \sim 18N	106	25	60	95	50/60	60
TGC1s-25N \sim 38N	129	31.5	71	111.5	50/60	71



7.3 TGC1s-09N~38N



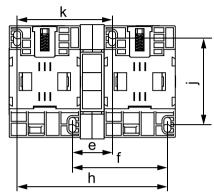
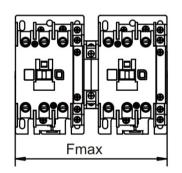


Fig. 3 TGC1s-09N~38N outline and installation dimensions drawings

Spec. & Model	Fmax	е	f	h	j	k
TGC1s-09N \sim 18N	106	25	60	95	50/60	60
TGC1s-25N \sim 38N	129	31.5	71	111.5	50/60	71

7.4 TGC1s-40N~95N



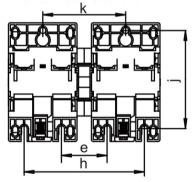


Fig. 4 TGC1s-40N~95N outline and installation dimensions drawings

Unit: mm

Unit: mm

Spec. & Model	Fmax	е	f	h	j	k
TGC1s-40N \sim 65N	163	50	-	130	100/110	90
TGC1s-80N \sim 95N	186	60	-	140	100/110	100