



SPGL GMC contactor can be used in 400-690V, AC, 50-60Hz up to control 60Kvar capacitors, when a capacitance is switched to an AC system. The result is a resonant circuit damped to a greater or less degree. In addition to the nominal current, the capacitor accepts a transient current that is a multiple (as more than 200times) of its nominal current. Fast switching, low-bounce contactors should be used.

Because of the leading contacts, the inrush current spikes (reverse charging operations) are limited or damped by resistance wires. These current spikes would lead to welding of the contactor's main contacts and they are also harmful for the capacitors. Reduction of the inrush currents also avoids transients and voltage sags.

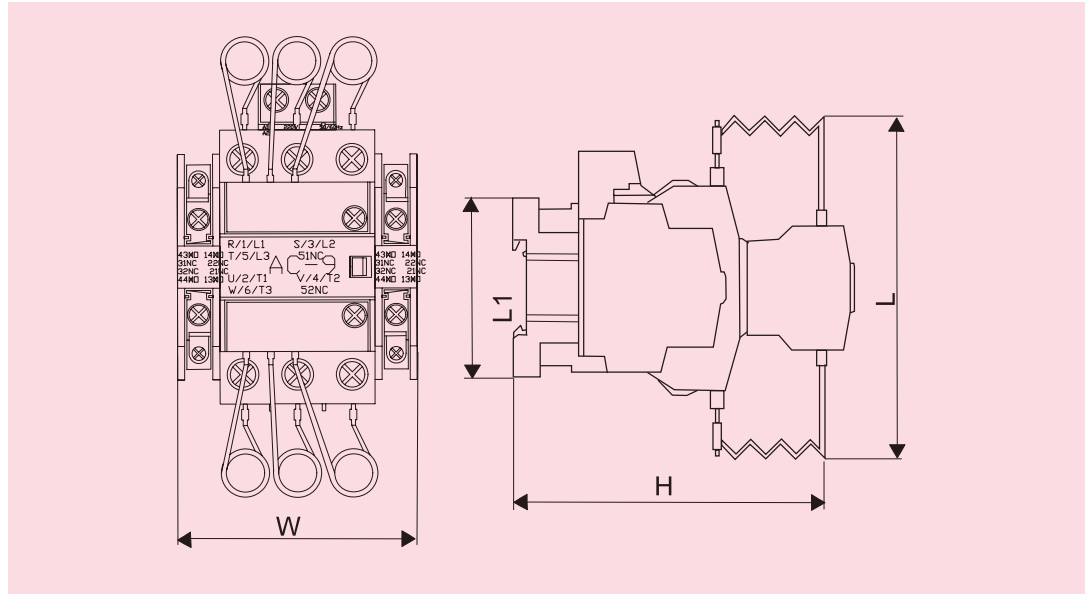
Leading contacts with a wiper function are used in these capacitor contactors, each leading contact is linked to the contactor yoke by a permanent magnet. The leading contacts close before the main contacts and open when the main contacts are with safely closed. This feature of the capacitor contactors guarantees effective, stable operation throughout useful life. The single controlled leading contacts also enhance resistance to soiling during operation.

The capacitor contactors are suitable for direct switching of low-inductance and low-loss capacitor banks (IEC 831, VDE 0560) with or without detuning reactors. They feature leading auxiliary switches and damping resistors to reduce peak inrush to <math><70 \text{ lin}</math> (inrush current). The capacitor contactors are weld inrush current of 200 lin. The backup fuses gL (gG) should be scaled for 1.6 to 1.8 lin all capacitor contactors come with an auxiliary contact (normally open).

### Features

- Excellent damping of inrush current.
- Improved power quality (e.g. avoidance of voltage sags).
- Longer useful life of main contacts of capacitor contactor.
- Soft switching of capacitor and thus better useful life.
- Enhanced mean lifetime of PFC system.
- Reduced ohmic losses.
- Leading contacts with wiper function.
- High quality and long operation life.

### Mounting draw



### Specification

Operationfreq.(1/H)	Hz	220~240
Electric life(million)	Hour	10Kvar~30Kvar:0.2;40Kvar~60Kvar:0.1
Inrush Current(A)	$I_{max}$	200In,(protection fuse current rate should be 1.5In to 2In)
Coil Votage(V)	$U_n$	AC 220V,(also 36V、110V、220V、380V of AC or DC if neded)
Operation		Loop working range:85%~110%Un for on,20%~75%Un for off
Auxiliary Contacts		Two, one of NO and one of NC contacts
Inrush Current		Leading contacts with wiper function
Ambient		<55°C, 1000m altitude,95% humidity
Assembling		In addition to be assembled with the bolt also can be with 35mm and 75mm assembling track
Standards		IEC947-4-1,IEC60947-4-1,IEC60947-5-1,VDE0660

### Rates of SPGL GMC Contactors

Specification	Order No. of SPGL GMC-					
	32/15	43/20	63/32	80/40	95/50	115/60
In at 400V (A)	21.6	29	46	58	72	86.6
Power for kvar	16	20	30	40	50	60
Assembling Dimension(mm)	58x130x132	58x130x137	77x200x151	87x200x160	121x220x150	
Terminal Stud Dimension	M4			M6		
Cable Size (mm <sup>2</sup> )	1.25-5.5		2-14	2-38		
Terminal Torque (N)	15		26	45		100