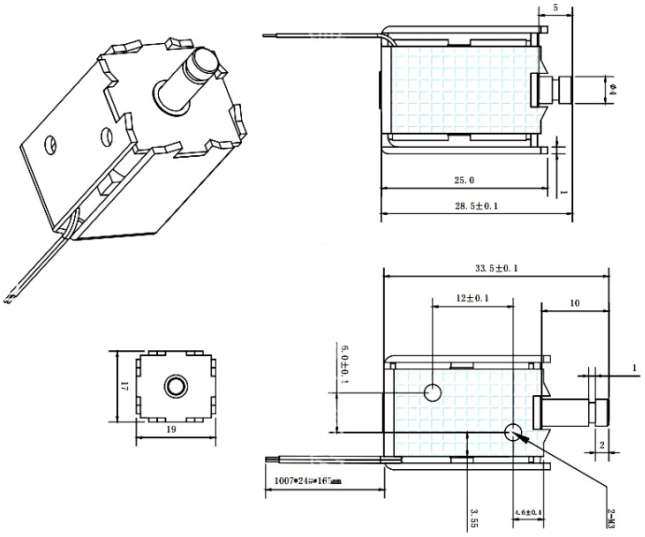
OPEN FRAME SOLENOID ELECTROMAGNET

SCM2519L24

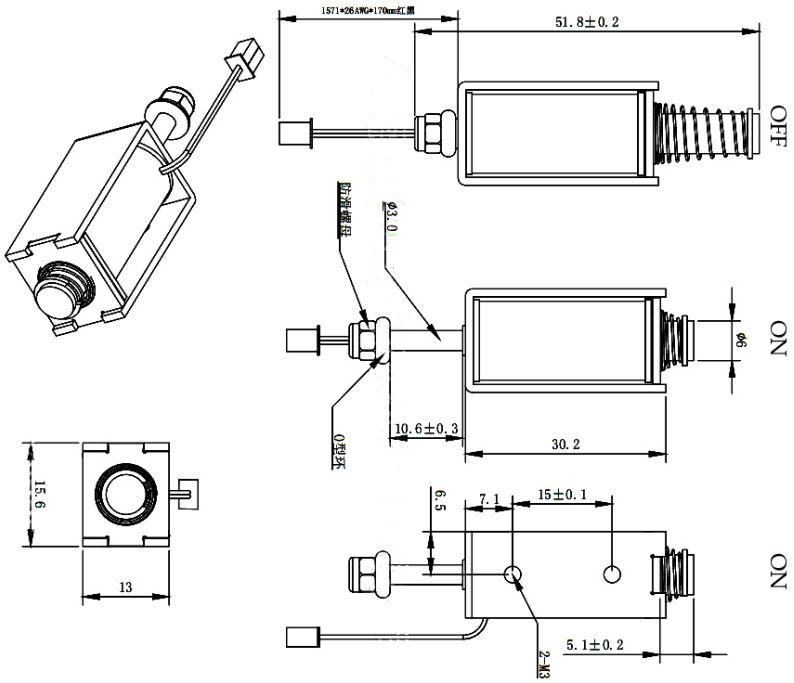


1. Working environment temperature and humidity: –10℃~50℃ 5%–95% RH
2. Storage environment temperature and humidity: –30℃~60℃ 5%–95% RH
3. Insulation resistance: 50MΩMIN DC500V(between coil and skeleton)
4. Resistance voltage: 1sec @AC700V 5mA(between coil and shell)
5. Insulation class: H class (180℃)
6. Power consumption: 16.45W(customizable)
7. Operating voltage range: DC24V ± 10%(customizable)
8. Stroke – suction: Holding force 450g
9. Life: ⩾1 million times (on 0.02 seconds off 0.8 seconds, one hour, no load)
10. Temperature rise: ⩽75℃(on 0.02 seconds, off 0.8 seconds, one hour, no load)
11. Response time: ⩽30ms DC12V no load
12. Environmental protection: compliant with EU 2020/95/EC(ROHS)
13. Lead strength: ⩽0.5kgf–30s, the lead is normal
14. Power input polarity: No requirement

(The specification parameters in the above table are horizontally placed at the room temperature of 20~25℃, relative humidity of 65%RH ± 5%,1 standard atmospheric pressure)

OPEN FRAME SOLENOID ELECTROMAGNET

SCM3015L24

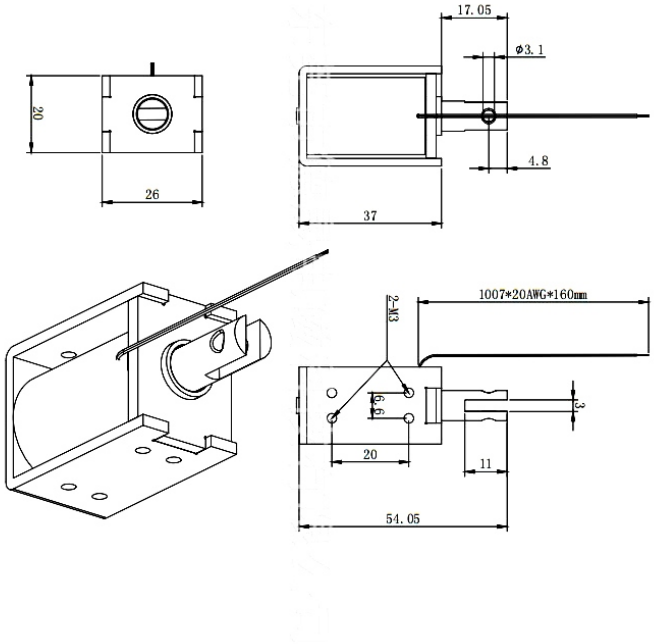


1. Working environment temperature and humidity: –10℃~50℃ 5%–95% RH
2. Storage environment temperature and humidity: –30℃~60℃ 5%–95% RH
3. Insulation resistance: 50MΩ MIN DC500V(between coil and skeleton)
4. Resistance voltage: 1sec @AC700V 5mA(between coil and shell)
5. Insulation class: H class (180℃)
6. Power consumption: 47.28W(DC24V,R=2.5Ω ±10%at20℃)
7. Operating voltage range: DC24V±10%
8. Stroke – suction: ⩾7N (vertically placed, load down)
9. Working cycle: ⩽ 2%ED maximum power time 2 seconds
10. Life: ⩾1 million times (DC24V on 0.2s off 9.8s once, no load)
11. Temperature rise: ⩽75℃(DC24V on 0.2s off 9.8s once, one hour, no load)
12. Environmental protection: compliant with EU 2020/95/EC(ROHS)
13. Lead strength: ⩽0.5kgf–30s, the lead is normal
14. Power mode: instant trigger
15. Power input polarity: No requirement

(The specification parameters in the above table are horizontally placed at the room temperature of 20~25℃, relative humidity of 65%RH±5%,1 standard atmospheric pressure)

OPEN FRAME SOLENOID ELECTROMAGNET

SCM3726L24



1.Working environment temperature and humidity: –10℃~50℃ 5%–95% RH

2.Storage environment temperature and humidity: –30℃~60℃ 5%–95% RH

3.Insulation resistance: 500MΩMIN DC500V(between coil and skeleton)

4.Resistance voltage: 1sec@AC1200V 1mA(between coil and shell)

5.Insulation grade: F (150℃)

6.Power consumption: 7W(DC12V,R=Ω ± 10%20.6Ω ± 10% at20℃ can be customized)

7.Operating voltage range: DC24V ± 10%(customizable)

8.Stroke – suction: 0mm:≥350g power maintenance

9.Life: ≥5 million times ≤9%ED (on 0.03 seconds off 0.3 seconds for once, no load)

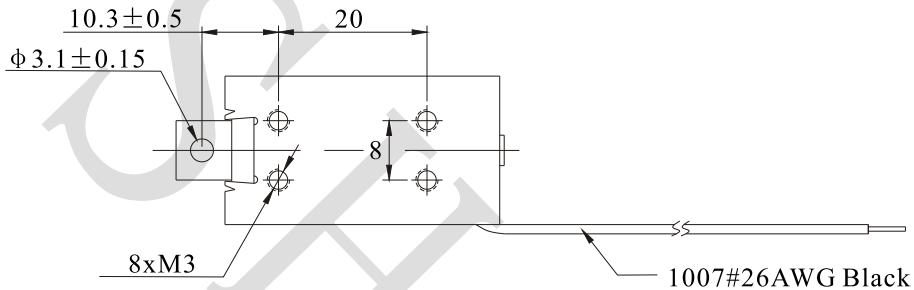
10.Temperature rise: ≤50℃(pass 0.03 seconds off 0.3 seconds for once, one hour, no load)

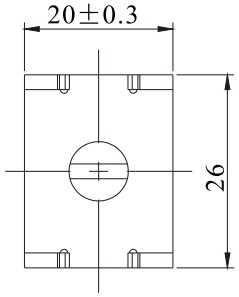
11.Response time: ≤30ms DC12V no load

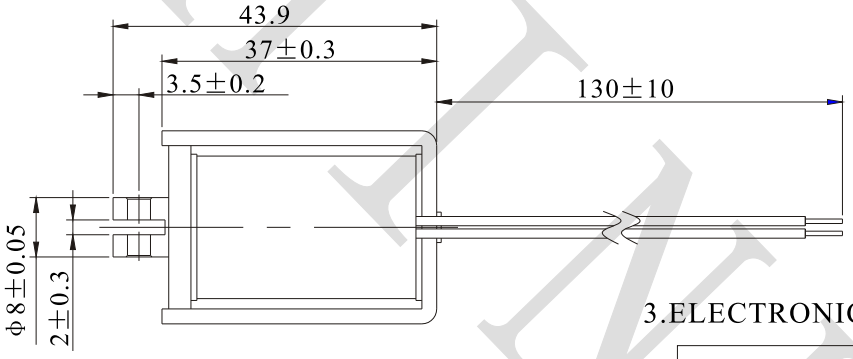
12.Environmental protection: compliant with EU 2020/95/EC(ROHS)

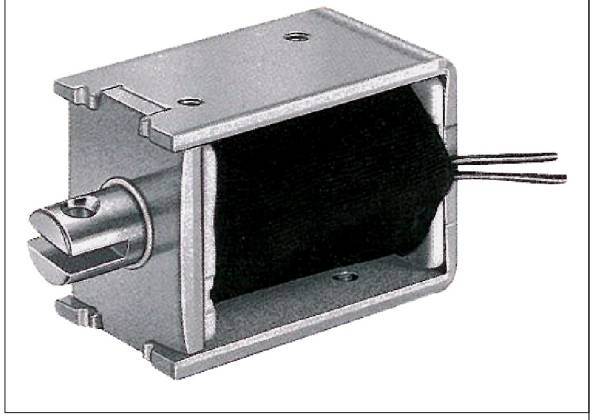
13.Lead strength: ≤1.0kgf–30s, the lead is normal

1.PHYSICAL CHARACTERISTICS(mm)

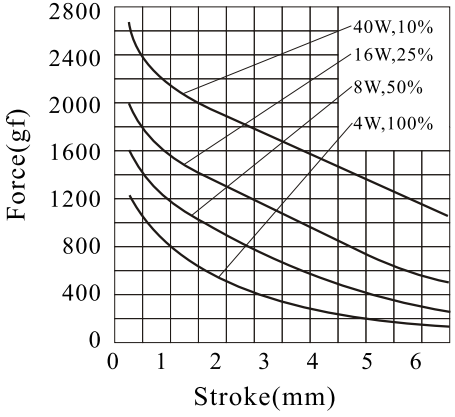




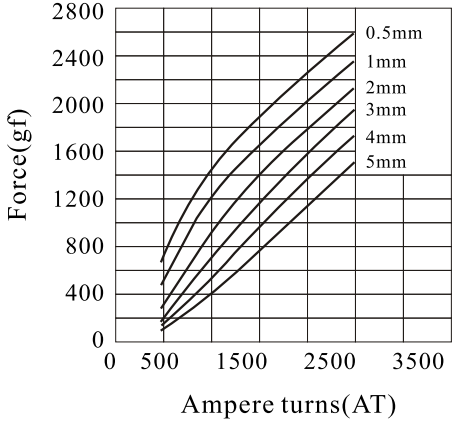




Stroke Vs Force



Ampere turns Vs Force



3.ELECTRONICAL SPECIFICATIONS

Duty cycle(%)= $\frac{ON\ time}{ON\ time+OFF\ time}$ X100%			Continuous (100%)	Or less (50%)	Or less (25%)	Or less (10%)
Max. ON time in seconds			∞	100	36	7
Watts at 20℃			4	8	16	40
Ampere-turns at 20℃			666	941	1332	2106
Type No.	Resisance (20℃) Ω ±10%	No. Turns	Volts DC			
SCM4420L06	9	1000	6	8.5	12	19
SCM4420L12	36	2000	12	17	24	38
SCM4420L24	144	4000	24	34	48	76
SCM4420L48	576	7540	48	68	96	152

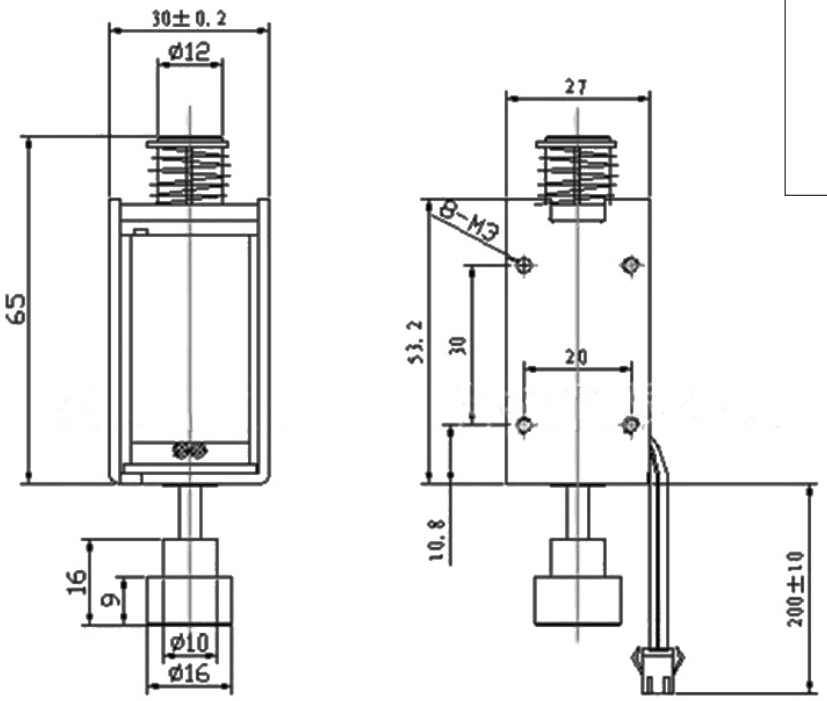
NAME:	Open frame solenoids		
CUSTOMER P/N:		DATE:	2011-09-29
SHINHOM P/N:	SCM4420L Series	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

SHINHOM

SHAANXISHINHOM ENTERPRISE CO LTD

OPEN FRAME SOLENOID ELECTROMAGNET

SCM5327L24

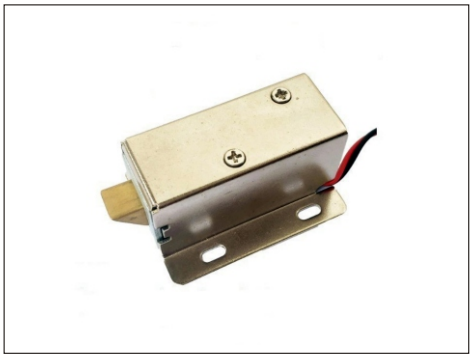


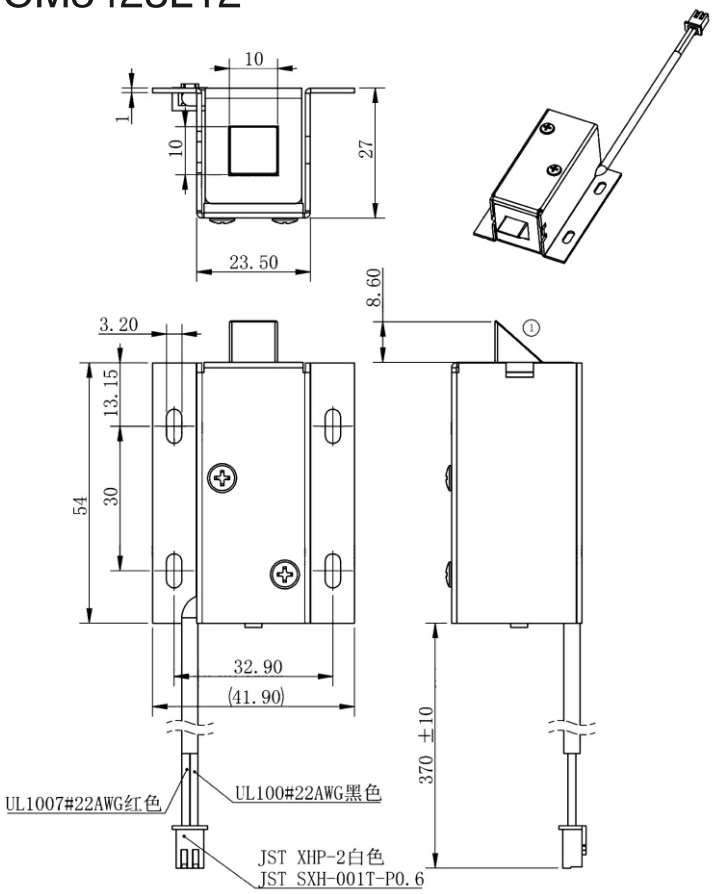
1. Working environment temperature and humidity: –10℃~50℃ 5%–95% RH
2. Storage environment temperature and humidity: –30℃~60℃ 5%–95% RH
3. Insulation resistance: 100MΩDC500V(between coil and skeleton)
4. Resistance voltage: 1sec@AC1200V 5mA(between coil and shell)
5. Insulation grade: B (130℃)
6. Power consumption: 11.9W (customizable)
7. Operating voltage range: DC24V±10% (customizable)
8. Stroke – suction: initial force ⩾350gf no power, maintain force ⩾1.5kgf (vertical placement, load down)
9. Life: ⩾ 500,000 times (DC24V 1s on and off 1s once, one hour, no load)
10. Temperature rise: ⩽75℃(DC24V on 1s off 1s once, one hour, 100% power, no–load)
11. Environmental protection: compliant with EU 2020/95/EC(ROHS)
12. Lead strength: ⩽0.5kgf–30s, the lead is normal
13. Power input polarity: red wire is connected to the positive pole, black wire is connected to the negative pole, push rod suction. : Red wire is connected to the negative pole, black wire is connected to the positive pole, push rod reset.

(The specification parameters in the above table are horizontally placed at the room temperature of 20~25℃, relative humidity of 65%RH±5%,1 standard atmospheric pressure)

OPEN FRAME SOLENOID ELECTROMAGNET

SCM5423L12



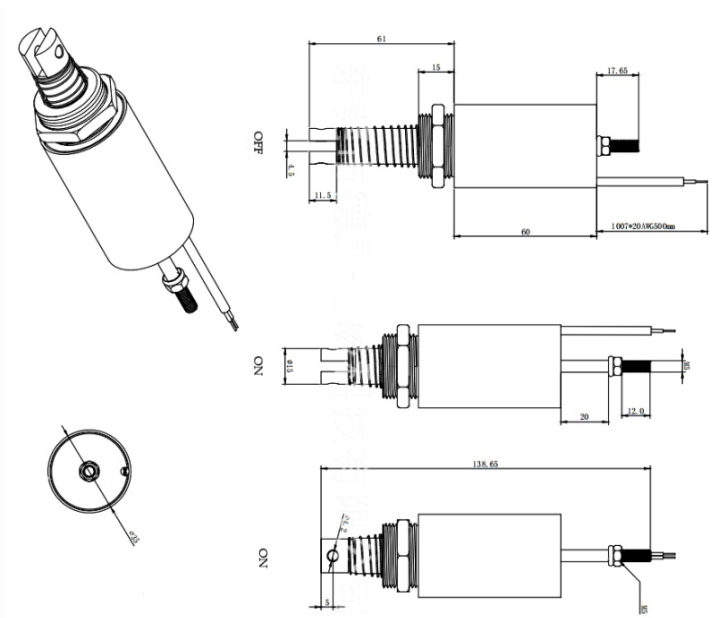


1. Ambient temperature and humidity: –10℃~50℃ 5%–95% RH
2. Storage environment temperature and humidity: –30℃~60℃ 5%–95% RH
3. Insulation resistance: 100MΩMIN DC500V(between coil and skeleton)
4. Resistance voltage: 1sec@AC1200V 5mA(between coil and shell)
5. Insulation grade: B (130℃)
6. Power consumption: 10W–50W(customizable)
7. Operating voltage range: DC12V ± 10%(customizable)
8. Stroke – suction: initial force ⩾350g (vertically placed, load down)
9. Life: ⩾ 500,000 times (pass 0.2 seconds, break 1.3 seconds for once, no load)
10. Temperature rise: ⩽75℃(on 0.2 seconds, off 1.3 seconds for one hour, no load)
11. Environmental protection: compliant with EU 2020/95/EC(ROHS)
12. Lead strength: ⩽0.5kgf–30s, the lead is normal
13. Power input polarity: No requirement

(The specification parameters in the above table are horizontally placed at the room temperature of 20~25℃, relative humidity of 65%RH ± 5%,1 standard atmospheric pressure)

OPEN FRAME SOLENOID ELECTROMAGNET

SCM6035L24

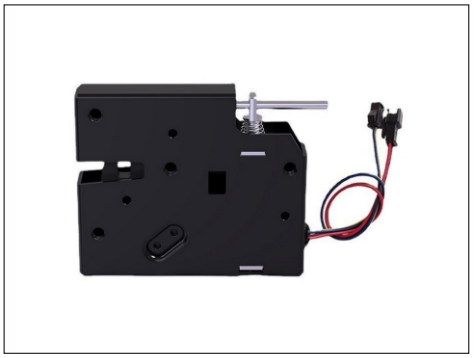


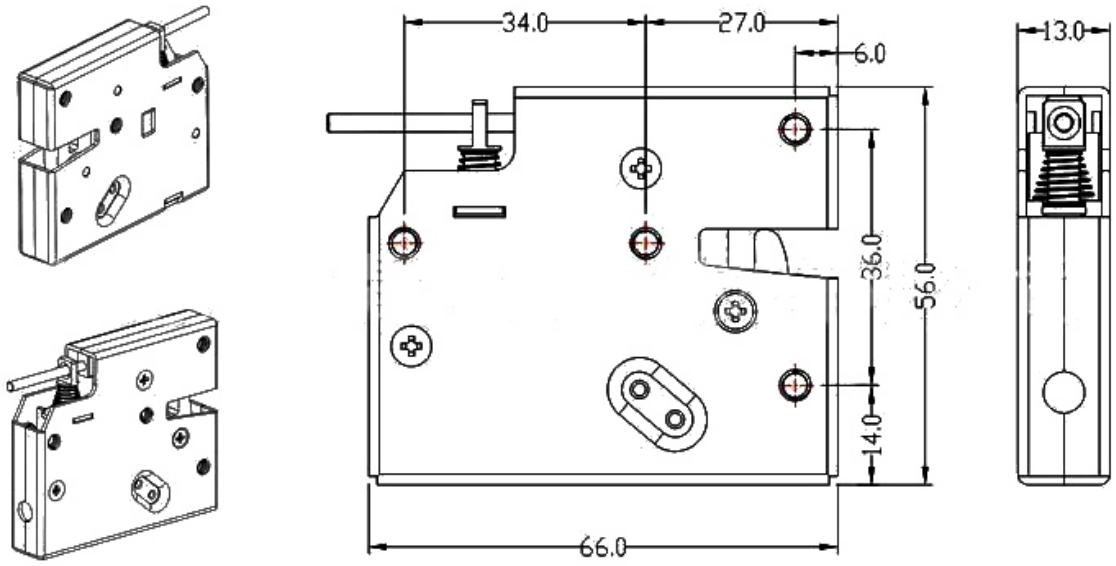
1. Working environment temperature and humidity: –10℃~50℃ 5%–95% RH
2. Storage environment temperature and humidity: –30℃~60℃ 5%–95% RH
3. Insulation resistance: 500MΩMIN DC500V(between coil and skeleton)
4. Resistance voltage: 1sec@AC1200V 5mA(between coil and shell)
5. Insulation grade: F (150℃)
6. Power consumption: W/W(customizable)
7. Operating voltage range: DC24V ± 10%(customizable)
8. Stroke – suction: 0mm:≥500g (power on)
9. Life: ≥ 500,000 times (pass 0.03 seconds break 0.3 seconds, one hour, no load)
10. Temperature rise: ≤75℃(on 0.03 seconds off 0.3 seconds, one hour, no load)
11. Response time: ≤30ms DC12V no load
12. Environmental protection: compliant with EU 2020/95/EC(ROHS)
13. Lead strength: ≤0.5kgf–30s, the lead is normal
14. Power input polarity: No requirement

(The specification parameters in the above table are horizontally placed at the room temperature of 20~25℃, relative humidity of 65%RH ± 5%,1 standard atmospheric pressure)

OPEN FRAME SOLENOID ELECTROMAGNET

SCM6613L24





1. Working environment temperature and humidity: –10℃~50℃ 5%–95% RH
2. Storage environment temperature and humidity: –30℃~60℃ 5%–95% RH
3. Insulation resistance: 100MΩ MIN DC500V(between coil and skeleton)
4. Resistance voltage: 1sec@AC1200V 5mA(between coil and shell)
5. Insulation class: H class (180℃)
6. Power consumption: 230W(DC24V,R=2.5Ω ±10%at20℃)
7. Operating voltage range: DC24V±10%
8. Stroke – suction: ≥900gF (vertical placement, load down)
9. Working cycle: ≤2% Max power time 2 seconds
10. Life: ≥1 million times (DC24V on 0.2s off 9.8s once, no load)
11. Temperature rise: ≤75℃(DC24V on 0.2s off 9.8s once, one hour, no load)
12. Environmental protection: compliant with EU 2020/95/EC(ROHS)
13. Lead strength: ≤0.5kgf–30s, the lead is normal
14. Power mode: instant trigger
15. Power input polarity: No requirement

(The specification parameters in the above table are horizontally placed at the room temperature of 20~25℃, relative humidity of 65%RH±5%,1 standard atmospheric pressure)