

3 pole | changeover contact



Available contact materials	AgNi + 5 μ Au
Recommended minimum contact load	5 mA / 5 V
Maximum contact load AC	10 A / 250 V AC-1
Maximum contact load DC	10 A / 30 V DC-1
Inrush current	30 A, 20 ms
Rated load AC	2 500 VA
Rated load DC	fig. 3.
Rated current	10 A
Mechanical endurance (cycles)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 500 000

Nominal voltage	see table product references
Operating voltage range	$0.8 U_N \dots 1.1 U_N$
Pick-up voltage	$\leq 0.8 U_N$
Release voltage	$\geq 0.1 U_N$
Power consumption AC / DC	2.2 VA / 1.3 W

Test voltage open contact	1 kV / 1 min
Test voltage contact / contact	2.5 kV / 1 min
Test voltage contact / coil	2.5 kV / 1 min
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ
Pollution degree	3

Storage temperature (no ice)	-40 ... 80 °C
Operation temperature	-40 ... 60 °C
Pick-up time / bounce time	16 ms / ≤ 3 ms
Release time / bounce time	8 ms / ≤ 1 ms
Maximum switching frequency at rated load	1 200 / h
Weight	81 g
Housing material	PA / PC

Socket	S3-B, S3-S, S3-M, S3-M0, S3-M1, EC-11
Blanking plug	S0-NP (BAG 10 PCS)
Test button without locking	S3-HP (BAG 10 PCS)

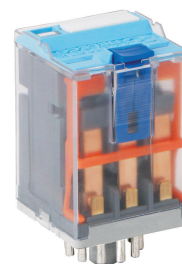


Figure 10 is a line graph showing the relationship between switching cycles (multiplied by 10⁶) and kVA for two different conditions: AC-1 (black line) and Cos φ 0.4 (blue line). The x-axis represents kVA, ranging from 0.5 to 2.5. The y-axis represents switching cycles x 10⁶, ranging from 0.1 to 10 on a logarithmic scale. Both curves show a decreasing trend as kVA increases. The AC-1 curve is consistently higher than the Cos φ 0.4 curve.

kVA	AC-1 (switching cycles x 10 ⁶)	Cos φ 0.4 (switching cycles x 10 ⁶)
0.5	~4.5	~2.5
1.0	~2.5	~1.2
1.5	~1.5	~0.8
2.0	~1.0	~0.6
2.5	~0.7	~0.5

A semi-logarithmic graph showing current in Amps on the y-axis (log scale from 0.1 to 10) versus time in Volts on the x-axis (linear scale from 0 to 200). Two curves are plotted: a black curve labeled 'DC-1' and a red curve labeled 'L/R 40 ms'. The black curve starts at 10 Amps at 0 Volts and decays to approximately 0.2 Amps at 200 Volts. The red curve starts at approximately 2.5 Amps at 0 Volts and decays to approximately 0.1 Amps at 150 Volts.

Standards IEC/EN 60947; IEC/EN 61810

