

Switching of large resistive and inductive loads

Selection table for power relays

The table below helps you to select suitable relay modules for the specified loads. A service life of around 100,000 switching operations is assumed.

D-SERIES



		DRR 2 CO	DRR 3 CO	DRL 1 CO	DRL 2 CO	DRL 3 CO
Example Part no. Single relay		1133370000	1133420000	1133460000	1133520000	1133580000
Example Art. no. KIT 24 V DC input		-	-	-	-	-
Insulation between input and output		Basic insulation	Functional insulation	Basic insulation	Basic insulation	Basic insulation
Contact material		AgCdO	AgCdO	AgCdO	AgCdO	AgCdO
Resistive AC load	AC1 loads: Heaters 250 V AC	< 10 A	< 10 A	< 16 A	< 10 A	< 10 A
	Inductive AC load					
Inductive AC load	AC15 loads: Valves, contactors 250 V	< 3.5 A	< 3.5 A	< 5.5 A	< 4.5 A	< 4.5 A
	AC3 loads: 1-phase motors 250 V AC	< 1.5 A	< 1.5 A	< 3.5 A	< 2 A	< 2 A
Resistive DC load	DC1 loads: Heaters	< 10 A	< 10 A	< 10 A	< 7 A	< 7 A
Inductive DC load	DC13 loads: Valves, contactors 24 V DC	< 2.5 A	< 2.5 A	< 4 A	< 3.5 A	< 3.5 A
Recommended field of application		Power relay (with octal relay) for switching several industrial loads < 3.5 A.	Power relay (with octal relay) for switching several industrial loads < 3.5 A.	Miniature power relay for switching industrial loads < 5.5 A.	Miniature power relay for switching several industrial loads < 4.5 A.	Miniature power relay for switching several industrial loads < 4.5 A.

The indicated currents only apply to the normally open contact. The data of the normally closed contact are to be set at approx. one third of the specified values. The real service life can be both above and below the specified value because each load stresses the switching contact differently and other environmental factors influence the service life of the switching contact, e.g. ambient temperature, mounting position, switching frequency, and many more. Therefore, these values are without guarantee and serve as orientation for better dimensioning. The assessment of the maximum load capacity was carried out on the basis of many years of practical experience as well as life cycle tests under laboratory conditions.