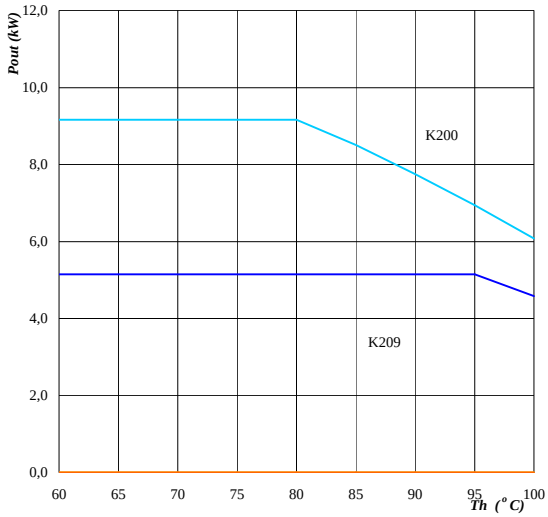
Output inverter selection quide

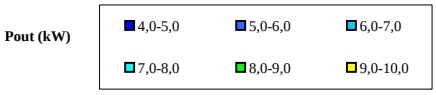
General conditions: 3 phase SPWM, Vgeon= 15 V
Vgeoff= -15 V

Figure 1. Typical available electric peak output power as a function of heatsink temperature

Inverter Pout=f(Th)



Conditions: Tj=125°C
DC link= 600 V
Modulation index Mi= 1
cosfi= 0,80
Switching frequency fsw= 4 kHz



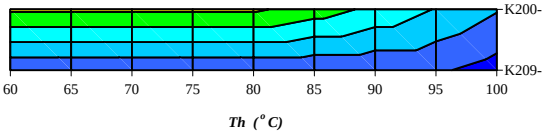
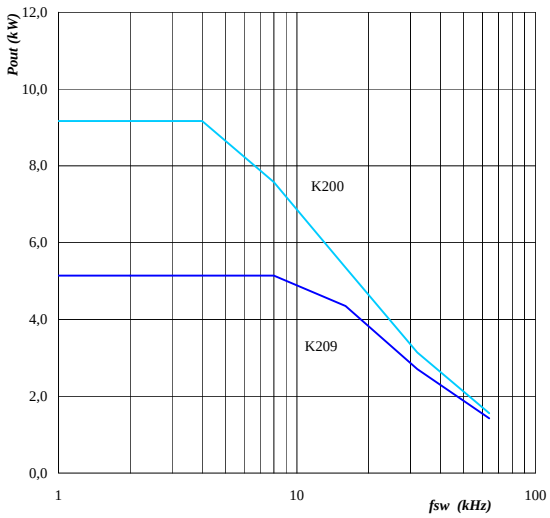
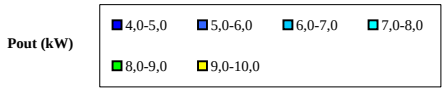


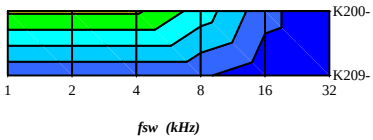
Figure 2. Typical available electric peak output power as a function of switching frequency

Inverter Pout=f(fsw)



Conditions: Tj=125°C
DC link= 600 V
Modulation index Mi= 1
cosfi= 0,80
Th= 80 °C





Module type K209-
K200-

Rgon= 54 Ohm
36 Ohm

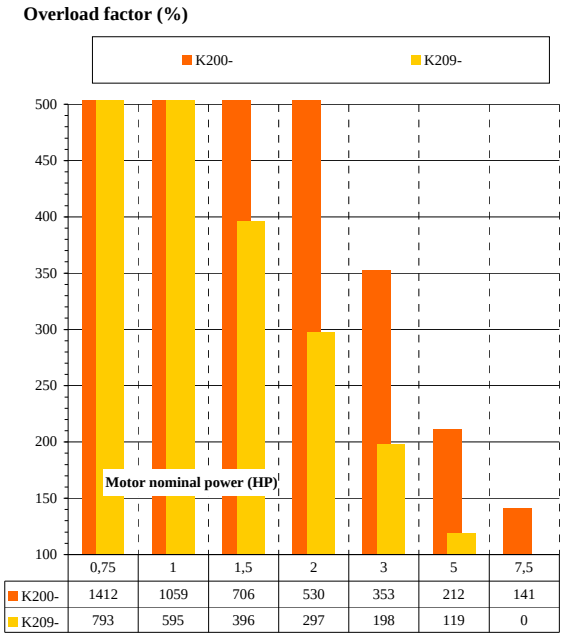
Rgoff= 54 Ohm
36 Ohm

Output inverter selection quide

General conditions: 3 phase SPWM, Vgeon= 15 V
Vgeoff= -15 V

Figure 3. Typical available overload factor as a function of motor power

Inverter Ppeak/Pnom=f(Pnom)



	0,75	1	1,5	2	3	5	7,5
K200-	1412	1059	706	530	353	212	141
K209-	793	595	396	297	198	119	0

Conditions: Tj=125C
DC link= 600 V
Modulation index Mi= 1
cosfi= 0,8
Switching frequency fsw= 4 kHz
Heatsink temperature= 80 °C
Motor efficiency= 0,85

Module type		Rgon=		Rgoff=	
	K209-		54 Ohm		54 Ohm
	K200-		36 Ohm		36 Ohm