

V23990-P623-F58-PM

application sheet

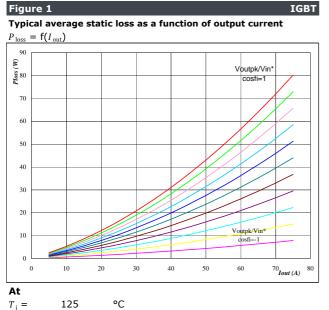
flow PIM 2 3rd

Output Inverter Application

650 V / 50 A

FWD

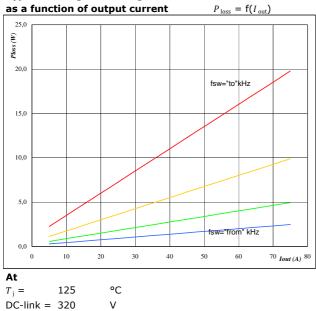
General conditions				
H Bridge SPWM				
V _{GEon}	=	15 V		
V _{GEoff}	=	-15 V		
R gon	=	8Ω		
R goff	=	8Ω		



Mi*cosfi from -1 to 1 in steps of 0,2

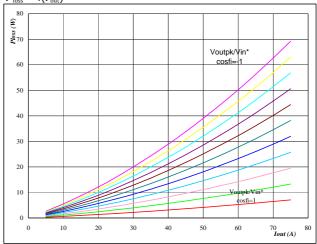


Typical average switching loss











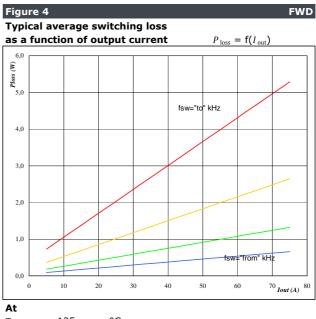
IGBT



Mi*cosfi from -1 to 1 in steps of 0,2

°C

125



 $T_{\rm j}$ = 125 °C DC-link = 320 V fsw from 4 kHz to 32 kHz in steps of factor 2



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Phase

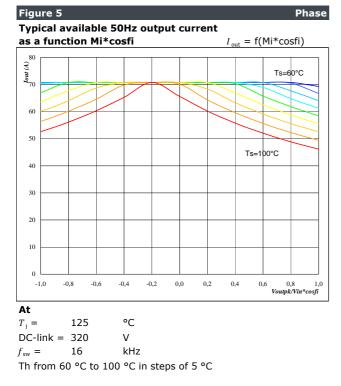
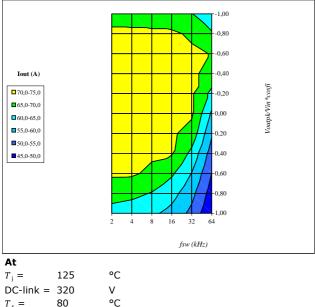
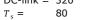


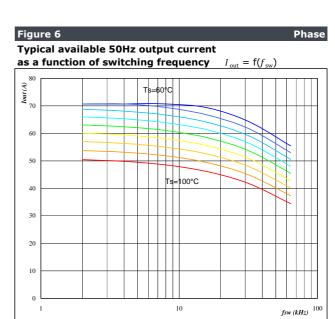
Figure 7

Phase

Typical available 50Hz output current as a function of $V_{outpk}/V_{in}*cosfi$ and switching frequency $I_{out} = f(f_{sw}, Mi*cosfi)$







At

°C $T_{i} =$ 125 DC-link = 320V

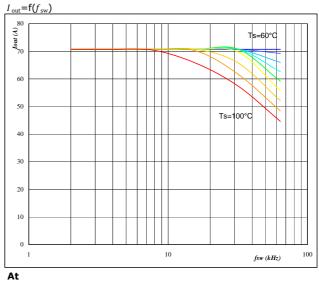
Mi*cosfi = 1

Th from 60 °C to 100 °C in steps of 5 °C

Figure 8

Typical available 0Hz output current

as a function of switching frequency



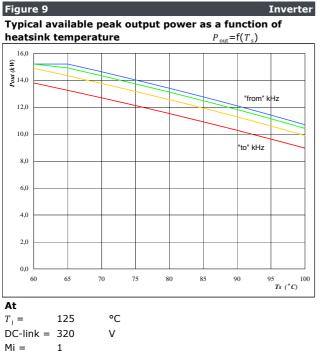
°C $T_j =$ 125 DC-link = 320V Mi*cosfi = 0 Ts from 60 °C to 100 °C in steps of 5 °C



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650 V / 50 A

Inverter



Mi =

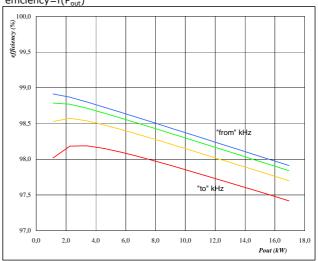
cosfi = 1

fsw from 4 kHz to 32 kHz in steps of factor 2

Figure 10

Output Inverter Application

Typical efficiency as a function of output power efficiency=f(P_{out})



At

2

DC-link =	320	V
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Mi = 1

cosfi = 1

fsw from 4 kHz to 32 kHz in steps of factor 2