preliminary datasheet

flowPIM 2 3rd

Output Inverter Application

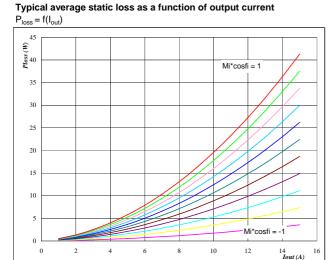
1200V/4A



3phase SPWM V_{GEon} =

 V_{GEoff} -15 V 64 Ω

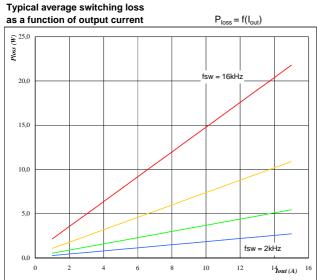
 R_{gon} R_{goff} 64 Ω



 $T_j =$ 150 °C

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



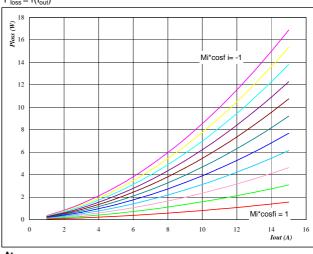


Αt $T_j =$ 150 °C 600

fsw from 2 kHz to 16 kHz in steps of factor 2

Typical average static loss as a function of output current

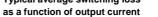


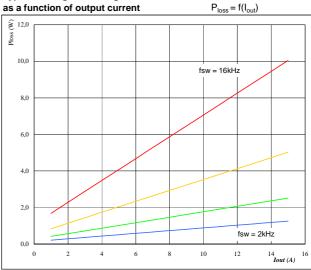


 $T_j =$ 150 °C

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

Figure 4 Typical average switching loss





Αt $T_j =$ 150 °C 600 ٧

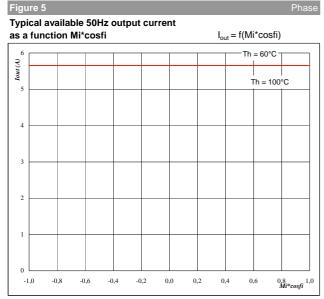
fsw from 2 kHz to 16 kHz in steps of factor 2

preliminary datasheet

flowPIM 2 3rd

Output Inverter Application

1200V/4A



Αt

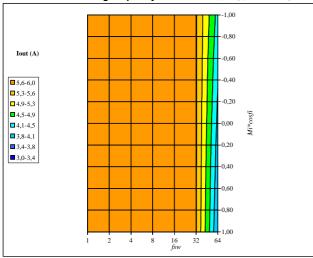
fsw =

°C $T_j =$ 150 ٧ DC link = 600 8

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

kHz

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

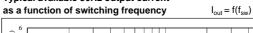


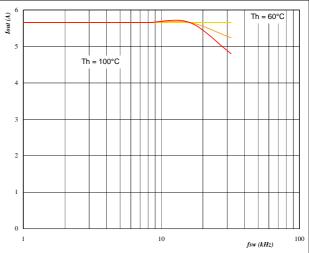
Αt

 $T_j =$ 150 °C DC link = 600 80

°С





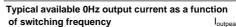


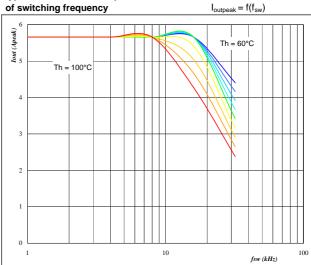
Αt

 $T_j =$ °C 150

DC link = 600 ٧ Mi*cosfi = 0.8

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





Αt

 $T_j =$ 150 °C

DC link = 600

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

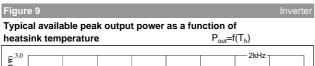
Mi =

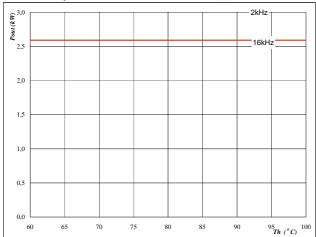
preliminary datasheet

flowPIM 2 3rd

Output Inverter Application

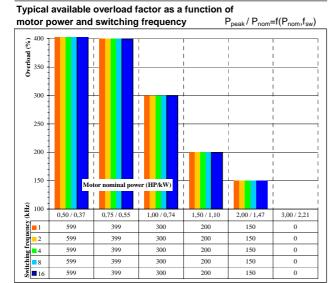
1200V/4A





fsw from 2 kHz to 16 kHz in steps of factor 2

Figure 11 Inverte

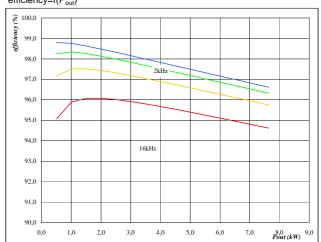


fsw from 1 kHz to 16kHz in steps of factor 2

Th = 80 °C

Motor eff = 0.85





At		
$T_j =$	150	°C
DC link =	600	V
Mi =	1	
cosfi =	0.80	

fsw from 2 kHz to 16 kHz in steps of factor 2



preliminary datasheet

PRODUCT STATUS DEFINITIONS

Datasheet Status	Product Status	Definition
Target	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice. The data contained is exclusively intended for technically trained staff.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data may be published at a later date. Vincotech reserves the right to make changes at any time without notice in order to improve design. The data contained is exclusively intended for technically trained staff.
Final	Full Production	This datasheet contains final specifications. Vincotech reserves the right to make changes at any time without notice in order to improve design. The data contained is exclusively intended for technically trained staff.

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