

V23990-P828-F-PM

preliminary datasheet

Mi*cosfi = 1

60

Iout (A)

70

50



Output Inverter Application

1200V/35A

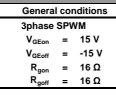
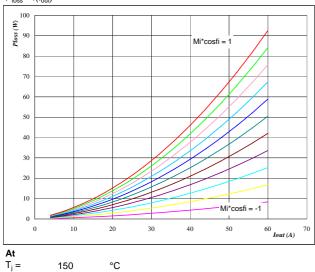


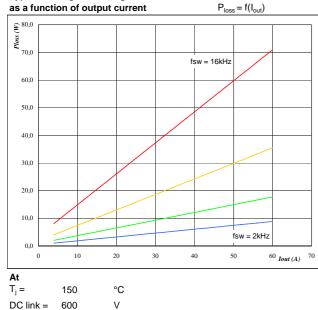
Figure 1 Typical average static loss as a function of output current $P_{loss} = f(I_{out})$



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



Typical average switching loss as a function of output current



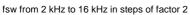
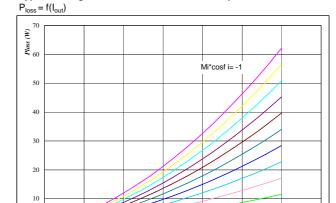


Figure 2 Typical average static loss as a function of output current



30

40



10

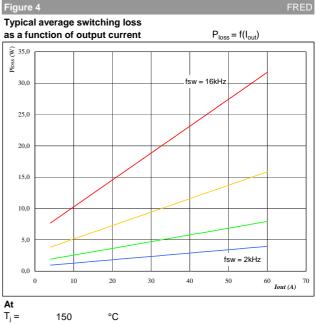
20

0

IGBT

0

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



DC link = 600 V fsw from 2 kHz to 16 kHz in steps of factor 2



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flowPACK 1 3rd gen

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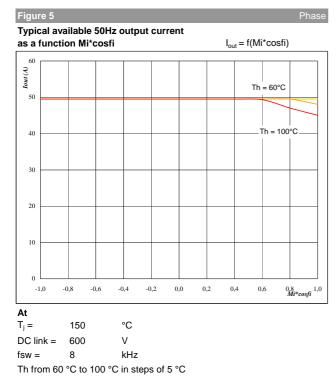
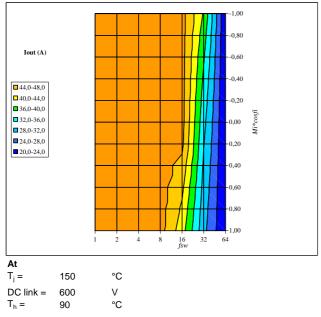
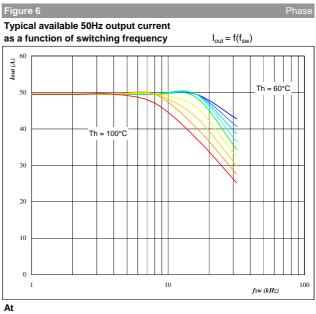


Figure 7

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





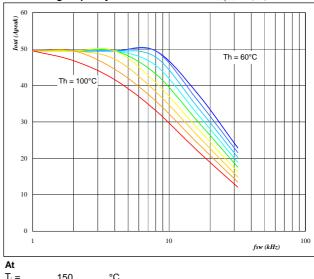
$T_j =$

°C 150 DC link = 600 V Mi*cosfi = 0.8

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

Figure 8

Typical available 0Hz output current as a function $I_{outpeak} = f(f_{sw})$ of switching frequency



 $T_j =$ 150 °C DC link = 600 V Th from 60 °C to 100 °C in steps of 5 °C Mi = 0

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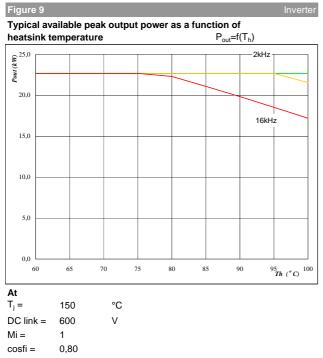
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flowPACK 1 3rd gen

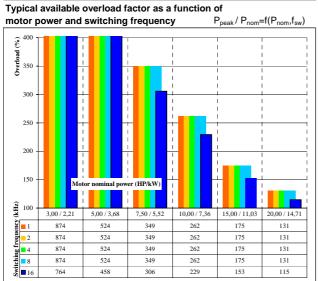
Output Inverter Application

1200V/35A



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

Figure 11



349

349

306

262

262

229

175

175

153

131

131

115

At

874

874

764

 $T_j =$ 150 °C DC link = 600 V Mi = 1 cosfi = 0,8 fsw from 1 kHz to 16kHz in steps of factor 2 Th =90 °C Motor eff = 0,85

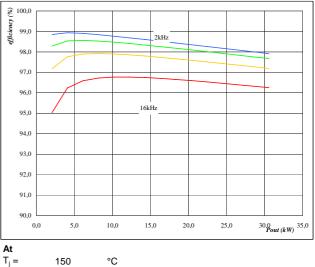
524

524

458

Figure 10

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



 $T_j =$ 150

DC link = 600

Mi = 1

cosfi = 0.80

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

V



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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.
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