

变频器控制原理

变频控制方式

1: VVVF Variable Voltage and Variable Frequency

2: CVCF Constant Voltage and Constant Frequency

VVC 的控制原理

VVC

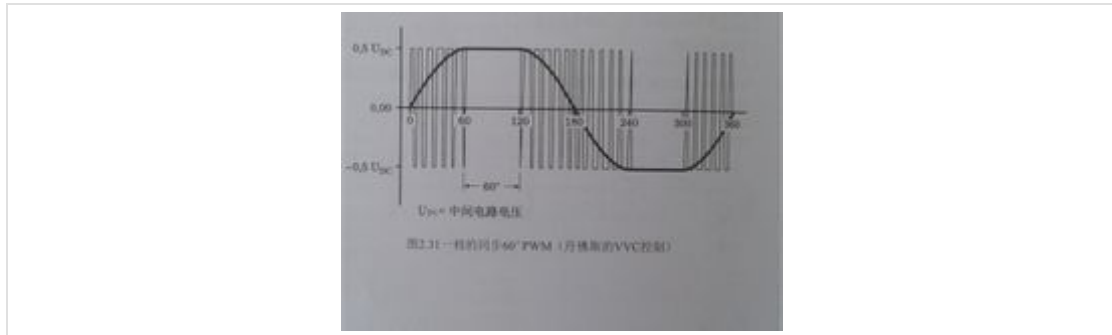
ASIC

60°PWM

IGBTS

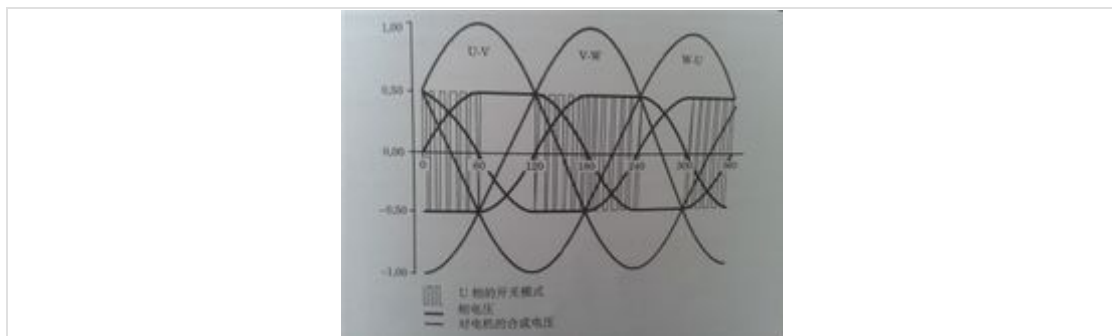
1/6

60°



PWM

VVC



VVC+

PWM

0-12HZ

PWM U/F

0-10HZ

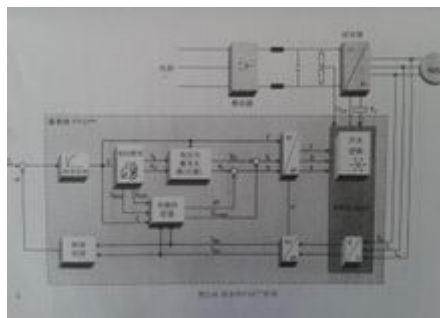
SFAVM 60°AVM
PWM

75°C SFAVM

75

60°AVM

SFAVM	8kHz	1. 60°PWM(VVC) 2. “ ” 3.
60°AVM	14kHz	1. SFAVM 1/3 2. 60°PWM(VVC) 3. SFAVM

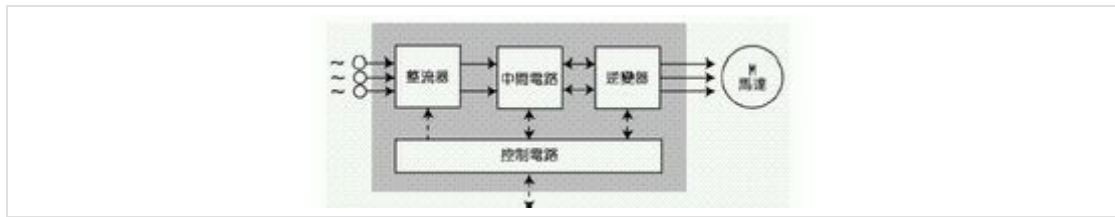


ISX0

Isy0 10 00

V/f

各組成部分原理



1

2

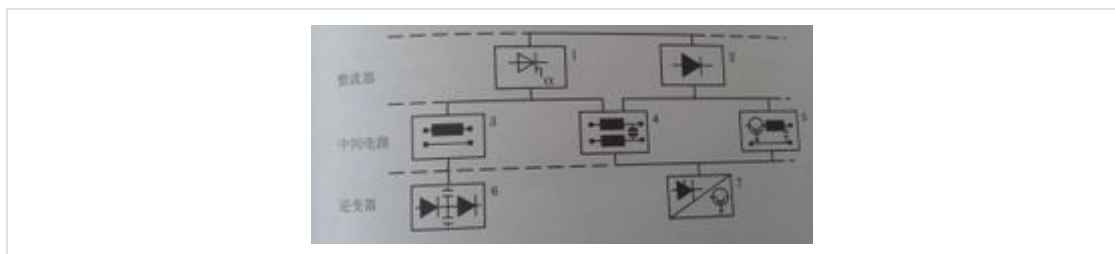
a)

b)

c)

3

4



1-

2-

3-

4-

5-

6-

7-

CSI 1+3+6

PAM 1+4+7 2+5+7

PAM/VVC(2+4+7)

50Hz

30Hz

整流器

中间电路

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|

|

逆变器

|

|

|

300Hz 20KHz