### [Boost level align.] S ir

Boost level for IPMA alignment.

This parameter can be accessed if **[Access Level]** L AC is set to **[Expert]** EPr.

| Setting | Description |
|---|---|
| 0...200% | Setting range<br>**Factory setting**: 100% |

### [Angle error Comp.] PEC

Angle position error compensation.

This parameter can be accessed if:
- **[Access Level]** L AC is set to **[Expert]** EPr, and
- **[HF inj. activation]** HF i is set to **[yes]** YES.

| Setting | Description |
|---|---|
| 0...500% | Setting range<br>**Factory setting**: 0% |

## About Output Voltage Management and Overmodulation

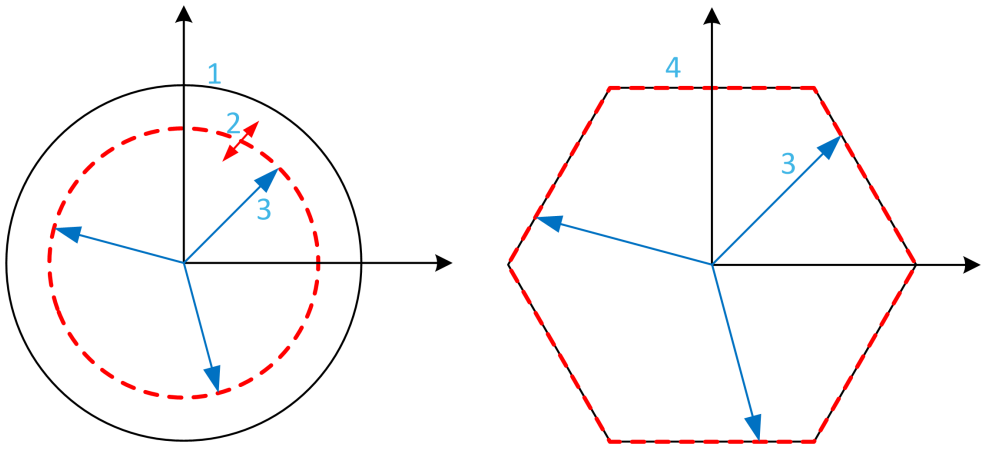
### [Overmodul. Activation] oVMA

Overmodulation activation.

This parameter can be accessed if **[Access Level]** L AC is set to **[Expert]** EPr.

The purpose of the overmodulation is to:
- compensate the voltage loss in DC bus when the drive is loaded.
- increase the maximum possible voltage to reduce current consumption at high motor voltage and limit thermal effect on the motor.

In factory settings, the motor supplied by the intermediate of the drive has:
- a common output voltage mode not null depending on the DC bus supply.
- No overmodulation (**[Overmodul. Activation]** oVMA is set to **[No]** no): sinusoidal phase to phase voltage.
- output voltage limited to the maximum possible value depending on DC bus supply which depends on the main power supply.




1 Maximum possible value of Output voltage limitation (default value)
2 VLim with numeric value under the maximum limitation
3 Output voltage
4 Output voltage limitation with full overmodulation (hexagon form)

| Setting | Code / Value | Description |
|---|---|---|
| **[Default]** | dEFAuLt | Overmodulation is not configured<br>By default, the Output voltage limitation describes a circle with at maximum radius depending of DC bus voltage.<br>The radius can be reduced to a lower value by setting a numerical value to **[Output voltage limitation]** VL iM.<br>**Factory setting** |
| **[Full]** | FuLL | Overmodulation is active and full.<br>The output voltage limitation describes a regular hexagon depending of DC bus voltage.<br>The phase to phase voltages are not sinusoidal. |

### [Output voltage limitation] VL iM

Output voltage limitation.

This parameter can be accessed if **[Access Level]** LAC is set to **[Expert]** EPr.

The purpose of this parameter is to modify the output voltage limitation to a lower value than the maximum default value.

The unit of the numerical value of this parameter is in phase to phase rms voltage.

This parameter cannot be set to a numerical value if **[Overmodul. Activation]** oVMA is set to **[FULL]** FuLL.

| Setting | Code / Value | Description |
|---|---|---|
| **[Default]** | dEFAuLt | Default value of Output Voltage limitation.<br>The Output Voltage limitation is at the maximum capability of the DC bus voltage depending on **[Overmodul. Activation]** oVMA setting.<br>**Factory setting** |
| 0...9999 V | | Setting range of the output limitation voltage.<br>Set a value lower than the corresponding **[Default]** dEFAuLt value to reduce the maximum output voltage limitation. If the numerical value is higher than the corresponding **[Default]** dEFAuLt value, this corresponding value is considered. |

## [Switching frequency] SWF - Menu

### Access

**[Complete settings]** ➡ **[Motor parameters]** ➡ **[Switching frequency]**

### [Switching frequency] SFr

Drive switching frequency.

Adjustment range: The maximum value is limited to 4 kHz if **[Motor surge limit.]** SVL parameter is configured.

If **[Sinus Filter Activation]** oFI is set to **[Yes]** YES, the minimum value is 2 kHz and the maximum value is limited to 6 kHz or 8 kHz according to drive rating.

**NOTE:** In the event of excessive temperature rise, the drive automatically reduces the switching frequency and reset it once the temperature returns to normal.

In case of high-speed motor, it is advised to increase the PWM frequency **[Switching frequency]** SFr at 8, 12 kHz or 16 kHz

| Setting ( ) | Description |
|---|---|
| 2...8 or 16 kHz according to drive rating | Setting range<br>**Factory setting**: 4.0 kHz or 2.5 kHz according to the drive rating |