

AC Drive Basic-Operating Videos

Chapter 1- AC Drive Basic-Operating Videos

1. SA3 Basic-operating Video

| Topic | Description |
|--|--|
| 1. PU mode operation | When P.79=1, use the keypad for frequency setting and start/stop |
| Video link: https://www.youtube.com/watch?v=6svg7-sNLPO | |
| 2. External mode operation | When P.79=2, the frequency is set by the external terminal or analog signal, activated by STF/STR terminal |
| Video link: https://www.youtube.com/watch?v=6svg7-sNLPO | |
| 3. Combined mode operation | When P.79=4, frequency is set by the keypad, activation is controlled by external terminal STF/STR |
| Video link: https://www.youtube.com/watch?v=6svg7-sNLPO | |
| 4. Switching between traditional parameters and parameter groups | Controlled by 00-25/P.990 |
| Video link: https://www.youtube.com/watch?v=6svg7-sNLPO | |
| 5. Monitoring switching between current, voltage and frequency | Controlled by keypad |
| Video link: https://www.youtube.com/watch?v=6svg7-sNLPO | |
| 6. Restore to default setting | Operation of P.998 |
| Video link: https://www.youtube.com/watch?v=6svg7-sNLPO | |
| 7. Alarm history | Refer to the user manual |
| Video link: https://www.youtube.com/watch?v=6svg7-sNLPO | |

2. SE3 Basic-operating Video

| Topic | Description |
|--|--|
| 1. PU mode operation | When P.79=1, use the keypad for frequency setting and start/stop |
| Video link: https://www.youtube.com/watch?v=bbteiaqwR3E | |
| 2. External mode operation | When P.79=2, the frequency is set by the external terminal or analog signal, activated by STF/STR terminal |
| Video link: https://www.youtube.com/watch?v=bbteiaqwR3E | |
| 3. Combined mode operation | When P.79=4, frequency is set by the keypad, activation is controlled by external terminal STF/STR |
| Video link: https://www.youtube.com/watch?v=bbteiaqwR3E | |
| 4. Switching between traditional parameters and parameter groups | Controlled by 00-25/P.990 |
| Video link: https://www.youtube.com/watch?v=bbteiaqwR3E | |
| 5. Monitoring switching between current, voltage and frequency | Controlled by keypad |
| Video link: https://www.youtube.com/watch?v=bbteiaqwR3E | |
| 6. Restore to default setting | Operation of P.998 |
| Video link: https://www.youtube.com/watch?v=bbteiaqwR3E | |
| 7. Alarm history | Refer to the user manual |
| Video link: https://www.youtube.com/watch?v=bbteiaqwR3E | |

3. SS2 Basic-operating Video

| Topic | Description |
|--|--|
| 1. PU mode operation | When P.79=1, use the keypad for frequency setting and start/stop |
| Video link: https://www.youtube.com/watch?v=MSd-U1eYFQY&list=PLWza8dfxMJw9jZVNo92waTysYabzwlYA | |
| 2. External mode operation | When P.79=2, the frequency is set by the external terminal or analog signal, activated by STF/STR terminal |
| Video link: https://www.youtube.com/watch?v=MSd-U1eYFQY&list=PLWza8dfxMJw9jZVNo92waTysYabzwlYA | |
| 3. Combined mode operation | When P.79=4, frequency is set by the keypad, activation is controlled by external terminal STF/STR |
| Video link: https://www.youtube.com/watch?v=MSd-U1eYFQY&list=PLWza8dfxMJw9jZVNo92waTysYabzwlYA | |
| 4. Monitoring switching between current, voltage and frequency | Controlled by keypad |
| Video link: https://www.youtube.com/watch?v=MSd-U1eYFQY&list=PLWza8dfxMJw9jZVNo92waTysYabzwlYA | |
| 5. Restore to default setting | Operation of P.998 |
| Video link: https://www.youtube.com/watch?v=MSd-U1eYFQY&list=PLWza8dfxMJw9jZVNo92waTysYabzwlYA | |
| 6. Alarm history | Refer to the user manual |
| Video link: https://www.youtube.com/watch?v=MSd-U1eYFQY&list=PLWza8dfxMJw9jZVNo92waTysYabzwlYA | |

4. SC3 Basic-operating Video

| Topic | Description |
|--|--|
| 1. PU mode operation | When P.79=1, use the keypad for frequency setting and start/stop |
| Video link: https://www.youtube.com/watch?v=qc8qqMsG7EI | |
| 2. External mode operation | When P.79=2, the frequency is set by the external terminal or analog signal, activated by STF/STR terminal |
| Video link: https://www.youtube.com/watch?v=qc8qqMsG7EI | |
| 3. Combined mode operation | When P.79=4, frequency is set by the keypad, activation is controlled by external terminal STF/STR |
| Video link: https://www.youtube.com/watch?v=qc8qqMsG7EI | |
| 4. Switching between traditional parameters and parameter groups | Controlled by 00-25/P.990 |
| Video link: https://www.youtube.com/watch?v=qc8qqMsG7EI | |
| 5. Monitoring switching between current, voltage and frequency | Controlled by keypad |
| Video link: https://www.youtube.com/watch?v=qc8qqMsG7EI | |
| 6. Restore to default setting | Operation of P.998 |
| Video link: https://www.youtube.com/watch?v=qc8qqMsG7EI | |
| 7. Alarm history | Refer to the user manual |
| Video link: https://www.youtube.com/watch?v=qc8qqMsG7EI | |

Chapter 2- IM Motor (Induction Motor) Tuning Process

| Topic | Description |
|--|--|
| 1. SA3 open loop control tuning | The tuning process for IM motors without a PG card. |
| Video link: https://www.youtube.com/watch?v=wID4WPLQge8 | |
| 2. SA3 closed-loop control tuning | The SA3 requires the installation of a PG card and the motor needs to be paired with an encoder. |
| Video link: https://www.youtube.com/watch?v=ar22JNquShg | |

Chapter 3- PM Motor (Permanent Magnetic Motor) Tuning Process

| Topic | Description |
|--|---|
| 1. SA3 open loop control tuning | The tuning process for PM motors without a PG card. |
| Video link: https://www.youtube.com/watch?v=TNiaaidF8jw | |
| 2. SE3 open loop control tuning | The tuning process for PM motors without a PG card. |
| Video link: https://www.youtube.com/watch?v=Ags5kUiMOM0 | |

Chapter 4- Example of INV software operation

| Topic | Description |
|--|---|
| 1. Using Shihlin INV software with SA3 | Using INV software to control SA3 |
| Video link: https://www.youtube.com/watch?v=oVE6ApuwGp4 | |
| 2. Open a saved parameter file | Using INV software to open the SC3 parameter file (in excel format) |
| Video link: https://www.youtube.com/watch?v=KHivSDrSRck | |
| 3. Using Shihlin INV software with SC3 | Using INV software to control SC3 |
| Video link: https://www.youtube.com/watch?v=eMT283MBtuw | |
| 4. Using INV software to monitor SS2 | Output monitoring method |
| Video link: https://www.youtube.com/watch?v=4A5IKCi14gE | |

Chapter 5- AC Drive Performance Test

| Topic | Description |
|--|--|
| 1. AC drive cross-comparison check | To detect the problem is on motor or AC drive side |
| Video link: https://www.youtube.com/watch?v=IOdyTUaxb2g | |
| 2. SA3 rotation speed test | Relationship between output voltage, output frequency, output voltage and rotation speed |
| Video link: https://www.youtube.com/watch?v=AUehQSE44ew | |
| 3. SE3 current test | Relationship between output current, input current and rotation speed |
| Video link: https://www.youtube.com/watch?v=eZ5Y1l6oz1c | |