

MLFB: **3AJ5430-0FL88-5LK2 Z K85**

Rated current: **2500 A**      Rated voltage: **12 kV**      Rated short-circuit breaking current: **25 kA**

Serial-No.: **3AJ/00015708**      Factory ref.: **0070061449**      Order-Item: **000010**

Order Code:      Customer: **Siemens S.A.**  
**FC (PTD) - Switchboard Factory Corroios**

Customer code: **4503989861 / 302367665**

Date of routine test: **2008.05.05**

### Motor operating mechanism:

|                      |         |                 |                          |
|----------------------|---------|-----------------|--------------------------|
| Rated voltage        | Ua =    | <b>220 V AC</b> |                          |
| Spring charging time | at Ua : | <b>4.7 s</b>    | at 0.85 Ua: <b>5.5 s</b> |
| Current input (max)  | at Ua : | <b>2.4 A</b>    | at 0.85 Ua: <b>2.3 A</b> |

### Release:

|                             |      |                 |                     |                |
|-----------------------------|------|-----------------|---------------------|----------------|
| Closing solenoid: <b>Y9</b> | Ua = | <b>220 V AC</b> | Closing time at Ua: | <b>50.9 ms</b> |
| 1st release: <b>Y1</b>      | Ua=  | <b>220 V AC</b> | Opening time at Ua: | <b>51.0 ms</b> |
| 2nd release: <b>Y7</b>      | Ua=  | <b>230 V AC</b> | Opening time at Ua: | <b>50.9 ms</b> |
| 3rd release: <b>----</b>    | Ua=  | <b>----</b>     | Opening time at Ua: | <b>----</b>    |
|                             |      |                 | Tripping signal:    | <b>64.7 ms</b> |

Mechanical operating tests      **O-0,3s-CO-3min-CO**      checked

### Pole:

|                            |     |                 |     |                 |     |                 |
|----------------------------|-----|-----------------|-----|-----------------|-----|-----------------|
| Interrupter No.:           | L1: | <b>75211854</b> | L2: | <b>75211855</b> | L3: | <b>75211793</b> |
| Voltage drop test at 100A: | L1: | <b>2.3 mV</b>   | L2: | <b>2.2 mV</b>   | L3: | <b>2.3 mV</b>   |

### High voltage tests:

Test on auxiliary and control circuits: **2 kV AC / 1 min**

Power frequency voltage test: **42 kV AC / 1 min**

The equipment complies with specifications IEC 62271-100 / 102. Compliance with the above specifications has been checked by routine testing in our test laboratory.

Test lab. **PTD M C QPB**

Date **2008.05.31**

Mr. Udo Schülzke

SIEMENS AG BEREICH POWER TRANSMISSION AND DISTRIBUTION SCHA



MLFB: **3AJ5430-0FL88-5LK2 Z K85**

Rated current: **2500 A**      Rated voltage: **12 kV**      Rated short-circuit breaking current: **25 kA**

Serial-No.: **3AJ/00015709**      Factory ref.: **0070061449**      Order-Item: **000010**

Order Code:      Customer: **Siemens S.A.**  
**FC (PTD) - Switchboard Factory Corroios**

Customer code: **4503989861 / 302367665**

Date of routine test: **2008.05.05**

### Motor operating mechanism:

|                      |         |                 |                          |
|----------------------|---------|-----------------|--------------------------|
| Rated voltage        | Ua =    | <b>220 V AC</b> |                          |
| Spring charging time | at Ua : | <b>4.7 s</b>    | at 0.85 Ua: <b>6.0 s</b> |
| Current input (max)  | at Ua : | <b>2.5 A</b>    | at 0.85 Ua: <b>2.5 A</b> |

### Release:

|                             |      |                 |                     |                |
|-----------------------------|------|-----------------|---------------------|----------------|
| Closing solenoid: <b>Y9</b> | Ua = | <b>220 V AC</b> | Closing time at Ua: | <b>51.0 ms</b> |
| 1st release: <b>Y1</b>      | Ua=  | <b>220 V AC</b> | Opening time at Ua: | <b>51.6 ms</b> |
| 2nd release: <b>Y7</b>      | Ua=  | <b>230 V AC</b> | Opening time at Ua: | <b>46.6 ms</b> |
| 3rd release: <b>----</b>    | Ua=  | <b>----</b>     | Opening time at Ua: | <b>----</b>    |
|                             |      |                 | Tripping signal:    | <b>59.0 ms</b> |

Mechanical operating tests      **O-0,3s-CO-3min-CO**      checked

### Pole:

|                            |     |                 |     |                 |     |                 |
|----------------------------|-----|-----------------|-----|-----------------|-----|-----------------|
| Interrupter No.:           | L1: | <b>75211439</b> | L2: | <b>75211435</b> | L3: | <b>75211449</b> |
| Voltage drop test at 100A: | L1: | <b>2.2 mV</b>   | L2: | <b>2.2 mV</b>   | L3: | <b>2.2 mV</b>   |

### High voltage tests:

Test on auxiliary and control circuits: **2 kV AC / 1 min**

Power frequency voltage test: **42 kV AC / 1 min**

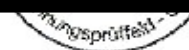
The equipment complies with specifications IEC 62271-100 / 102. Compliance with the above specifications has been checked by routine testing in our test laboratory.

Test lab. **PTD M C QPB**

Date **2008.05.31**

Mr. Udo Schülzke

SIEMENS AG BEREICH POWER TRANSMISSION AND DISTRIBUTION SCHA



MLFB: **3AJ5430-0FL88-5LK2 Z K85**

Rated current: **2500 A**      Rated voltage: **12 kV**      Rated short-circuit breaking current: **25 kA**

Serial-No.: **3AJ/00015710**      Factory ref.: **0070061449**      Order-Item: **000010**

Order Code:      Customer: **Siemens S.A.**  
**FC (PTD) - Switchboard Factory Corroios**

Customer code: **4503989861 / 302367665**

Date of routine test: **2008.05.05**

### Motor operating mechanism:

|                      |         |                 |                          |
|----------------------|---------|-----------------|--------------------------|
| Rated voltage        | Ua =    | <b>220 V AC</b> |                          |
| Spring charging time | at Ua : | <b>4.7 s</b>    | at 0.85 Ua: <b>5.7 s</b> |
| Current input (max)  | at Ua : | <b>2.5 A</b>    | at 0.85 Ua: <b>2.4 A</b> |

### Release:

|                             |      |                 |                     |                |
|-----------------------------|------|-----------------|---------------------|----------------|
| Closing solenoid: <b>Y9</b> | Ua = | <b>220 V AC</b> | Closing time at Ua: | <b>50.4 ms</b> |
| 1st release: <b>Y1</b>      | Ua=  | <b>220 V AC</b> | Opening time at Ua: | <b>50.1 ms</b> |
| 2nd release: <b>Y7</b>      | Ua=  | <b>230 V AC</b> | Opening time at Ua: | <b>47.8 ms</b> |
| 3rd release: <b>----</b>    | Ua=  | <b>----</b>     | Opening time at Ua: | <b>----</b>    |
|                             |      |                 | Tripping signal:    | <b>54.0 ms</b> |

Mechanical operating tests      **O-0,3s-CO-3min-CO**      checked

### Pole:

|                            |     |                 |     |                 |     |                 |
|----------------------------|-----|-----------------|-----|-----------------|-----|-----------------|
| Interrupter No.:           | L1: | <b>75211485</b> | L2: | <b>75211427</b> | L3: | <b>75211444</b> |
| Voltage drop test at 100A: | L1: | <b>2.2 mV</b>   | L2: | <b>2.2 mV</b>   | L3: | <b>2.2 mV</b>   |

### High voltage tests:

Test on auxiliary and control circuits: **2 kV AC / 1 min**

Power frequency voltage test: **42 kV AC / 1 min**

The equipment complies with specifications IEC 62271-100 / 102. Compliance with the above specifications has been checked by routine testing in our test laboratory.

Test lab. **PTD M C QPB**

Date **2008.05.31**

Mr. Udo Schülzke

SIEMENS AG BEREICH POWER TRANSMISSION AND DISTRIBUTION SCHA

MLFB: **3AJ5430-0FL88-5LK2 Z K85**

Rated current: **2500 A**      Rated voltage: **12 kV**      Rated short-circuit breaking current: **25 kA**

Serial-No.: **3AJ/00015711**      Factory ref.: **0070061449**      Order-Item: **000010**

Order Code:      Customer: **Siemens S.A.**  
**FC (PTD) - Switchboard Factory Corroios**

Customer code: **4503989861 / 302367665**

Date of routine test: **2008.05.06**

### Motor operating mechanism:

|                      |         |                 |                          |
|----------------------|---------|-----------------|--------------------------|
| Rated voltage        | Ua =    | <b>220 V AC</b> |                          |
| Spring charging time | at Ua : | <b>4.7 s</b>    | at 0.85 Ua: <b>5.7 s</b> |
| Current input (max)  | at Ua : | <b>2.4 A</b>    | at 0.85 Ua: <b>2.5 A</b> |

### Release:

|                             |      |                 |                     |                |
|-----------------------------|------|-----------------|---------------------|----------------|
| Closing solenoid: <b>Y9</b> | Ua = | <b>220 V AC</b> | Closing time at Ua: | <b>50.4 ms</b> |
| 1st release: <b>Y1</b>      | Ua=  | <b>220 V AC</b> | Opening time at Ua: | <b>51.2 ms</b> |
| 2nd release: <b>Y7</b>      | Ua=  | <b>230 V AC</b> | Opening time at Ua: | <b>51.1 ms</b> |
| 3rd release: <b>----</b>    | Ua=  | <b>----</b>     | Opening time at Ua: | <b>----</b>    |
|                             |      |                 | Tripping signal:    | <b>55.3 ms</b> |

Mechanical operating tests      **O-0,3s-CO-3min-CO**      checked

### Pole:

|                            |     |                 |     |                 |     |                 |
|----------------------------|-----|-----------------|-----|-----------------|-----|-----------------|
| Interrupter No.:           | L1: | <b>75211454</b> | L2: | <b>75211430</b> | L3: | <b>75211431</b> |
| Voltage drop test at 100A: | L1: | <b>2.2 mV</b>   | L2: | <b>2.2 mV</b>   | L3: | <b>2.6 mV</b>   |

### High voltage tests:

Test on auxiliary and control circuits: **2 kV AC / 1 min**

Power frequency voltage test: **42 kV AC / 1 min**

The equipment complies with specifications IEC 62271-100 / 102. Compliance with the above specifications has been checked by routine testing in our test laboratory.

Test lab. **PTD M C QPB**

Date **2008.05.31**

Mr. Udo Schülzke

SIEMENS AG BEREICH POWER TRANSMISSION AND DISTRIBUTION SCHA

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MLFB: **3AJ5420-0FL88-0LK2 Z**  
**B95 K85**

Rated current: **2500 A**      Rated voltage: **12 kV**      Rated short-circuit breaking current: **25 kA**

Serial-No.: **3AJ/00015712\_\_\_**      Factory ref.: **0070061449**      Order-Item: **000020**

Order Code:      Customer: **Siemens S.A.**  
**FC (PTD) - Switchboard Factory Corroios**

Customer code: **4503989861 / 302367665**

Date of routine test: **2008.05.08**

### Motor operating mechanism:

|                      |         |                 |                          |
|----------------------|---------|-----------------|--------------------------|
| Rated voltage        | Ua =    | <b>220 V AC</b> |                          |
| Spring charging time | at Ua : | <b>4.7 s</b>    | at 0.85 Ua: <b>5.7 s</b> |
| Current input (max)  | at Ua : | <b>2.5 A</b>    | at 0.85 Ua: <b>2.3 A</b> |

### Release:

|                             |      |                 |                     |                |
|-----------------------------|------|-----------------|---------------------|----------------|
| Closing solenoid: <b>Y9</b> | Ua = | <b>220 V AC</b> | Closing time at Ua: | <b>50.7 ms</b> |
| 1st release: <b>Y1</b>      | Ua=  | <b>220 V AC</b> | Opening time at Ua: | <b>52.2 ms</b> |
| 2nd release: <b>Y7</b>      | Ua=  | <b>230 V AC</b> | Opening time at Ua: | <b>50.9 ms</b> |
| 3rd release: <b>----</b>    | Ua=  | <b>----</b>     | Opening time at Ua: | <b>----</b>    |
|                             |      |                 | Tripping signal:    | <b>59.2 ms</b> |

Mechanical operating tests      **O-0,3s-CO-3min-CO**      checked

### Pole:

|                            |     |                 |     |                 |     |                 |
|----------------------------|-----|-----------------|-----|-----------------|-----|-----------------|
| Interrupter No.:           | L1: | <b>75221146</b> | L2: | <b>75211432</b> | L3: | <b>75211463</b> |
| Voltage drop test at 100A: | L1: | <b>2.2 mV</b>   | L2: | <b>2.1 mV</b>   | L3: | <b>2.2 mV</b>   |

### High voltage tests:

Test on auxiliary and control circuits: **2 kV AC / 1 min**

Power frequency voltage test: **42 kV AC / 1 min**

The equipment complies with specifications IEC 62271-100 / 102. Compliance with the above specifications has been checked by routine testing in our test laboratory.

Test lab. **PTD M C QPB**

Date **2008.05.31**

Mr. Udo Schülzke

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|                |  |                                       |                   |
|----------------|--|---------------------------------------|-------------------|
| MLFB:          | <b>3AJ5630-0AL80-5LK2 Z K85</b>                |                                       |                   |
| Rated current: | <b>1250 A</b>                                  | Rated voltage:                        | <b>12 kV</b>      |
|                |  | Rated short-circuit breaking current: | <b>20 kA</b>      |
| Serial-No.:    | <b>3AJ/00015713</b>                            | Factory ref.:                         | <b>0070061449</b> |
|                |  | Order-Item:                           | <b>000030</b>     |
| Order Code:    | Customer: <b>Siemens S.A.</b>                  |                                       |                   |
|                | <b>FC (PTD) - Switchboard Factory Corroios</b> |                                       |                   |
| Customer code: | <b>4503989861 / 302367665</b>                  |                                       |                   |

Date of routine test: **2008.05.04**

### Motor operating mechanism:

|                      |         |                 |                          |
|----------------------|---------|-----------------|--------------------------|
| Rated voltage        | Ua =    | <b>220 V AC</b> |                          |
| Spring charging time | at Ua : | <b>4.7 s</b>    | at 0.85 Ua: <b>5.7 s</b> |
| Current input (max)  | at Ua : | <b>2.4 A</b>    | at 0.85 Ua: <b>2.3 A</b> |

### Release:

|                   |             |      |                 |                     |                |
|-------------------|-------------|------|-----------------|---------------------|----------------|
| Closing solenoid: | <b>Y9</b>   | Ua = | <b>220 V AC</b> | Closing time at Ua: | <b>49.7 ms</b> |
| 1st release:      | <b>Y1</b>   | Ua=  | <b>220 V AC</b> | Opening time at Ua: | <b>51.3 ms</b> |
| 2nd release:      | <b>----</b> | Ua=  | <b>----</b>     | Opening time at Ua: | <b>----</b>    |
| 3rd release:      | <b>----</b> | Ua=  | <b>----</b>     | Opening time at Ua: | <b>----</b>    |
|                   |             |      |                 | Tripping signal:    | <b>60.6 ms</b> |

Mechanical operating tests **O-0,3s-CO-3min-CO** checked

### Pole:

|                            |     |                 |     |                 |     |                 |
|----------------------------|-----|-----------------|-----|-----------------|-----|-----------------|
| Interrupter No.:           | L1: | <b>71105758</b> | L2: | <b>71103727</b> | L3: | <b>71105766</b> |
| Voltage drop test at 100A: | L1: | <b>3.9 mV</b>   | L2: | <b>4.0 mV</b>   | L3: | <b>4.1 mV</b>   |

### High voltage tests:

|   |                         |
|---|-------------------------|
| Test on auxiliary and control circuits: | <b>2 kV AC / 1 min</b>  |
| Power frequency voltage test:           | <b>28 kV AC / 1 min</b> |

The equipment complies with specifications IEC 62271-100 / 102. Compliance with the above specifications has been checked by routine testing in our test laboratory.

Test lab. **PTD M C QPB**

Date **2008.05.31**

Mr. Udo Schülzke

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|                |  |                                       |                   |
|----------------|--|---------------------------------------|-------------------|
| MLFB:          | <b>3AJ5630-0AL80-5LK2 Z K85</b>                |                                       |                   |
| Rated current: | <b>1250 A</b>                                  | Rated voltage:                        | <b>12 kV</b>      |
|                |  | Rated short-circuit breaking current: | <b>20 kA</b>      |
| Serial-No.:    | <b>3AJ/00015714</b> _____                      | Factory ref.:                         | <b>0070061449</b> |
|                |  | Order-Item:                           | <b>000030</b>     |
| Order Code:    | Customer: <b>Siemens S.A.</b>                  |                                       |                   |
|                | <b>FC (PTD) - Switchboard Factory Corroios</b> |                                       |                   |
| Customer code: | <b>4503989861 / 302367665</b>                  |                                       |                   |

Date of routine test: **2008.04.30**

### Motor operating mechanism:

|                      |         |                 |                          |
|----------------------|---------|-----------------|--------------------------|
| Rated voltage        | Ua =    | <b>220 V AC</b> |                          |
| Spring charging time | at Ua : | <b>4.7 s</b>    | at 0.85 Ua: <b>5.7 s</b> |
| Current input (max)  | at Ua : | <b>2.2 A</b>    | at 0.85 Ua: <b>2.3 A</b> |

### Release:

|                   |             |      |                 |                     |                |
|-------------------|-------------|------|-----------------|---------------------|----------------|
| Closing solenoid: | <b>Y9</b>   | Ua = | <b>220 V AC</b> | Closing time at Ua: | <b>49.5 ms</b> |
| 1st release:      | <b>Y1</b>   | Ua=  | <b>220 V AC</b> | Opening time at Ua: | <b>50.6 ms</b> |
| 2nd release:      | <b>----</b> | Ua=  | <b>----</b>     | Opening time at Ua: | <b>----</b>    |
| 3rd release:      | <b>----</b> | Ua=  | <b>----</b>     | Opening time at Ua: | <b>----</b>    |
|                   |             |      |                 | Tripping signal:    | <b>60.0 ms</b> |

Mechanical operating tests **O-0,3s-CO-3min-CO** checked

### Pole:

|                            |     |                |     |                 |     |                 |
|----------------------------|-----|----------------|-----|-----------------|-----|-----------------|
| Interrupter No.:           | L1: | <b>7103721</b> | L2: | <b>71103724</b> | L3: | <b>71103718</b> |
| Voltage drop test at 100A: | L1: | <b>4.0 mV</b>  | L2: | <b>4.1 mV</b>   | L3: | <b>4.0 mV</b>   |

### High voltage tests:

|   |                         |
|---|-------------------------|
| Test on auxiliary and control circuits: | <b>2 kV AC / 1 min</b>  |
| Power frequency voltage test:           | <b>28 kV AC / 1 min</b> |

The equipment complies with specifications IEC 62271-100 / 102. Compliance with the above specifications has been checked by routine testing in our test laboratory.

Test lab. **PTD M C QPB**

Date **2008.05.31**

Mr. Udo Schülzke

SIEMENS AG BEREICH POWER TRANSMISSION AND DISTRIBUTION SCHA

