

Power distribution and switchgear cabinets

1. Power distribution

[execution 2004/2005](#)

power supply:	4 transformers each with 1000kVA
bus bar:	3200A
product / type:	Rittal / Maxi-PLS
outgoing feeders:	5 x 1600A
	1 x 1250A
	2 x 1000A

- engineering and manufacturing of electrical switchboard
- creation of control software
- execution of installation / mounted by BECK - Elektrotechnik
- commissioning in Germany

Special features:

- application of S7-300 programmable controller for aquisition of operating states, meter registrations, energy balances and instantaneous values
 - 10 multi-function instruments Fabr. Janitza UMG 503 for aquisition of 35 measurands and 5 meter registrations per power supply and/or outgoing feeder
 - connection of UMG 503 via Modbus / Profibus converter to the automation system
 - preprocessing of measuring data for routing to visualisation system WinCC and to an operating data aquisition via Ethernet
-

2. Power distribution

[execution 2004/2005](#)

power supply:	1600A
bus bar:	1600A
product / type:	Rittal / Maxi-PLS
outgoing feeders:	4 x 630A
	2 x 400A
	4 x 250A
	28 x160A

- engineering and manufacturing of electrical switchboard
- creation of control software
- execution of installation / mounted by BECK - Elektrotechnik
- commissioning in Germany

Special features:

- application of S7-300 programmable controller for aquisition of operating states, meter registrations, energy balances and instantaneous values
- 38 multi-function instruments Fabr. Janitza UMG 503 for aquisition of 35 measurands and 5 meter registrations per power supply and/or outgoing feeder
- connection of UMG 503 via Modbus / Profibus converter to the automation system
- preprocessing of measuring data for routing to visualisation system WinCC and to an operating data aquisition via Ethernet

Power distribution and switchgear cabinets

3. Power distribution

[execution 2004](#)

power supply: **2 x 1000A**
bus bar: **2500A**
product / type: **Elek / Elatis-M**
outgoing feeders: **3 x 630A**
6 x 400A
10 x 250A
18 x 160A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik

Special features:

- 2 multi-function instruments prod. Frako EMA 1101 for aquisition of measurands
-

4. Power distribution

[execution 2004](#)

power supply: **1 x 1600A**
bus bar: **1600A**
product / type: **Elek / Elatis-M**
outgoing feeders: **15 x 400A**
2 x 160A

- engineering and manufacturing of electrical switchboard
 - execution of installation / mounted by BECK - Elektrotechnik
-

5. Power distribution

[execution 2004](#)

power supply: **1 x 2000A**
bus bar: **1600A**
product / type: **Elek / Elatis-M**
outgoing feeders: **1 x 1250A**
6 x 400A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik

Power distribution and switchgear cabinets

6. Power distribution

[execution 2003](#)

power supply:	1 x 250A
bus bar:	630A
product / type:	Elek / Elatis-M
outgoing feeders:	1 x 250A 12 x 160A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik

Special features:

- application of Jean Müller „Powerlizer“ system for measuring, monitoring, displaying and analysing of operating data
-

7. Power distribution

[execution 2002](#)

power supply:	2 x 1600A
bus bar:	2000A
product / type:	Elek / Elatis-M
outgoing feeders:	1 x 1000A 7 x 630A 6 x 400A 6 x 250A 6 x 160A

- engineering and manufacturing of electrical switchboard
 - execution of installation / mounted by BECK - Elektrotechnik
-

8. Power distribution

[execution 2000](#)

power supply:	2000A
bus bar:	2000A
product / type:	Elek / UR-V
outgoing feeders:	3 x 630A 2 x 400A 1 x 250A 2 x 160A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik

List of references



14.04.2005

page 4 of 6

Power distribution and switchgear cabinets

9. Power distribution

execution 2000

power supply: **2 x 1250A**
bus bar: **2000A**
product / type: **Elek / HEV-M**
outgoing feeders: **6 x 630A**
4 x 400A
24 x 160A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik

Special features:

- 4 multi-function instruments prod. Janitza UMG 503 for the acquisition of meter registrations,
energy balances and instantaneous values

10. Power distribution

execution 2000

power supply: **4 x 1000A**
bus bar: **2000A**
product / type: **Elek / UR-V**
outgoing feeders: **24 x 630A**
21 x 400A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik

11. Power distribution

execution 1999

power supply: **2 x 1000A**
bus bar: **1500A**
product / type: **Elek / HEV-M**
outgoing feeders: **7 x 630A**
6 x 400A
11 x 250A
8 x 160A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik

List of references



14.04.2005

page 5 of 6

Power distribution and switchgear cabinets

12. Power distribution

[execution 1999](#)

power supply: **2500A**
bus bar: **3000A**
product / type: **Elek / UR-M**
outgoing feeders: **6 x 630A**
6 x 400A
2 x 250A
9 x 160A

- engineering and manufacturing of electrical switchboard

13. Power distribution

[execution 1998](#)

power supply: **2 x 630A**
bus bar: **1250A**
product / type: **Elek / UR-M**
outgoing feeders: **3 x 630A**
5 x 400A
17 x 160A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik

14. Power distribution

[execution 1998](#)

power supply: **2 x 1250A**
bus bar: **2500A**
product / type: **Elek / UR-V**
outgoing feeders: **2 x 630A**
4 x 400A
7 x 250A
17 x 160A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik

List of references



14.04.2005

page 6 of 6

Power distribution and switchgear cabinets

15. Power distribution

[execution 1998](#)

power supply: **2 x 630A**
bus bar: **1250A**
product / type: **Elek / UR-V**
outgoing feeders: **1 x 630A**
8 x 400A
5 x 250A
24 x 160A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik

16. Power distribution

[execution 1998](#)

power supply: **2 x 1000A**
bus bar: **1250A**
product / type: **Elek / HEV-M**
outgoing feeders: **6 x 630A**
4 x 400A
4 x 250A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik

17. Power distribution

[execution 1998](#)

power supply: **2 x 1000A**
bus bar: **1250A**
product / type: **Elek / HEV-M**
outgoing feeders: **6 x 630A**
6 x 400A
4 x 250A

- engineering and manufacturing of electrical switchboard
- execution of installation / mounted by BECK - Elektrotechnik