

US STEEL KOSICE/SLOVAKIA  
50.3023.01  
PROTECTION PANEL

WIRING DIAGRAM

V = E21.ASR + ASR21 / A00

025.011551- 5351 04

50.3023.01.000.701.xxx  
COVERSHEET

|         |            |
|---------|------------|
| DATE :  | 17.05.2005 |
| DRAWN : | KRAMBECK   |
| CHECK : | KLUGE      |
| NORM :  |            |

Sheet 1  
12 Sh.

21.12.2006  
HJ011551  
=E21.ASR+ASR21  
A00  
KRAMBECK  
KLUGEH

|                   |          |      |
|-------------------|----------|------|
| 04 AS BUILT SITE  | 01.12.06 | KRA. |
| 03 AS BUL. WORKS. | 14.11.05 | BER  |
| 02 HEATING        | 23.08.05 | BER  |
| No. Revision      | Date     | Name |

Schutzvermerk nach DIN 34 beachten!

21.12.2006  
RUP 60  
EVU 60

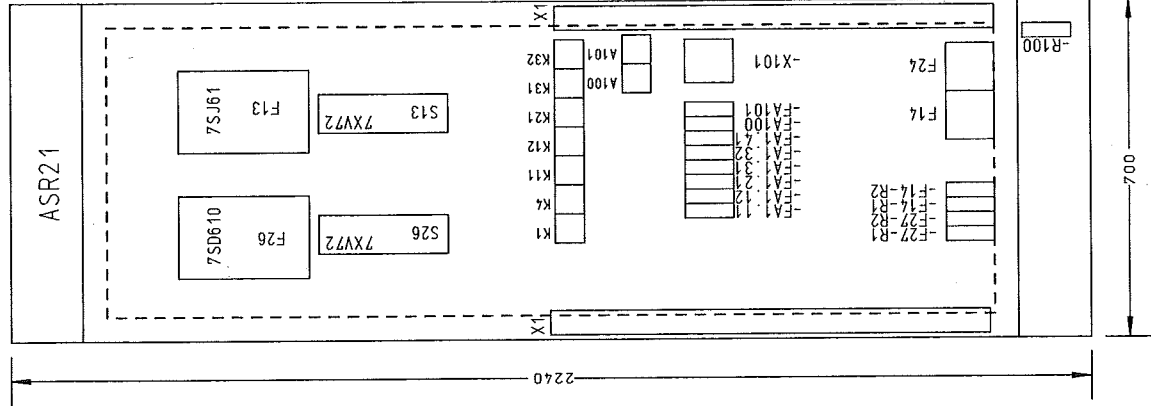
| 1                                 |  | 2                              |  | 3                     |    | 4                        |                         | 5          |    | 6                        |  | 7                                     |  | 8 |  |
|-----------------------------------|--|--------------------------------|--|-----------------------|----|--------------------------|-------------------------|------------|----|--------------------------|--|---------------------------------------|--|---|--|
| Auftraggeber-<br>Unterlagennummer |  | Ersteller-<br>Unterlagennummer |  | Änderungs-<br>Zustand |    | Unterlagen-Kennzeichnung |                         | Blatt      |    | Benennung                |  |                                       |  |   |  |
|                                   |  |                                |  |                       |    | Art   Zugehörigkeit      |                         | Zählnummer |    |                          |  |                                       |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | A00        | 1  | COVERSHEET               |  | WIRING DIAGRAM                        |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | A11        |    | TABLE OF CONTENTS        |  | WIRING DIAGRAM                        |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | D01        | 3  | SWITCHGEAR CUBICLE       |  | ARRANGEMENT DRAWING<br>WIRING DIAGRAM |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | D02        | 4  | WIRING MATERIALS         |  | WIRING DIAGRAM                        |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | K01        | 5  | TERMINAL DIAGRAM -X1     |  | WIRING DIAGRAM                        |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | K02        | 6  | TERMINAL DIAGRAM -X1     |  | WIRING DIAGRAM                        |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | K03        | 7  | TERMINAL DIAGRAM -X1     |  | WIRING DIAGRAM                        |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | K04        | 8  | TERMINAL DIAGRAM -X1     |  | WIRING DIAGRAM                        |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | K05        | 9  | TERMINAL DIAGRAM -X1     |  | WIRING DIAGRAM                        |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | Q01        | 10 | CROSS CONNECTION DIAGRAM |  | WIRING DIAGRAM                        |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | Q02        | 11 | CROSS CONNECTION DIAGRAM |  | WIRING DIAGRAM                        |  |   |  |
| 50.3023.01.000.701 .xxx           |  | 025.011551-5351 04             |  | 02                    | 03 | 04                       | V<br>=E21.ASR<br>+ASR21 | Q03        | 12 | CROSS CONNECTION DIAGRAM |  | WIRING DIAGRAM                        |  |   |  |
|                                   |  |                                |  |                       |    |                          |                         |            |    |                          |  |                                       |  |   |  |
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|                                   |  |                                |  |                       |    |                          |                         |            |    |                          |  |                                       |  |   |  |
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|                                   |  |                                |  |                       |    |                          |                         |            |    |                          |  |                                       |  |   |  |
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|                                   |  |                                |  |                       |    |                          |                         |            |    |                          |  |                                       |  |   |  |
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|                                   |  |                                |  |                       |    |                          |                         |            |    |                          |  |                                       |  |   |  |
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Schutzvermerk nach DIN 34 beachten!

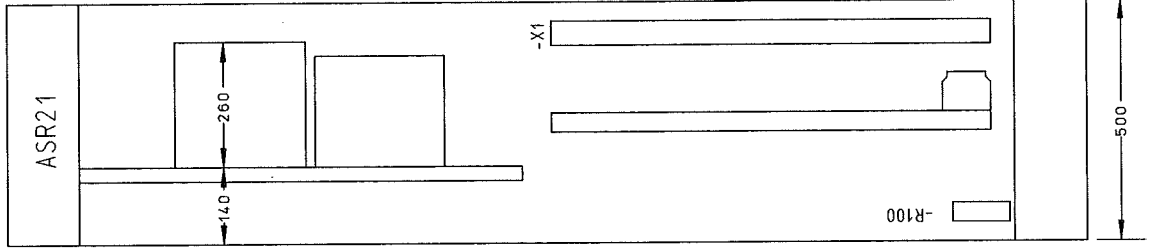
21.12.2006  
HJ011551  
E21-ASR+ASR21  
KLUGE  
KRAMECK  
D01

|       |               |          |      |        |            |                          |                     |                        |                     |         |
|-------|---------------|----------|------|--------|------------|--------------------------|---------------------|------------------------|---------------------|---------|
| 04    | AS BUILT SITE | 12.06    | KRA  | Datum  | 17.05.2005 | US STEEL KOSICE/SLOWAKIA | SWITCHGEAR CUBICLE  | 50.3023.01.000.701.xxx | V-E21-ASR<br>+ASR21 | /D01    |
| 03    | AS BUI. WORKS | 14.11.05 | BER  | Beauf. | KRAMBECK   | 50.3023.01               | ARRANGEMENT DRAWING |                        |                     | Blatt 3 |
| 02    | HEATING       | 23.08.05 | BER  | Gepr.  | KLUGE      | PROTECTION PANEL         | WIRING DIAGRAM      | 025.011551-5351        | 04                  | 12BL    |
| Zust. | Aenderung     | Datum    | Name | Norm   | Urspr.     | Ers.f.                   | Ers.d.              |                        |                     |         |

FRONTVIEW  
SWIVEL FRAME/MOUNTING PLATE

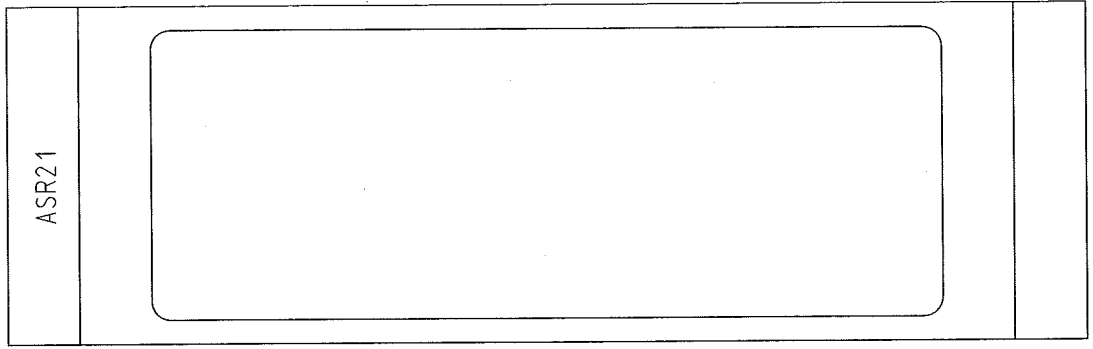


SIDEVIEW



ARRANGEMENT SIMILAR TO  
EXISTING CUBICLES

FRONTVIEW  
CUBICLE DOOR



| SQUARE             | USE                  | WIRE TYPE    |
|--------------------|----------------------|--------------|
| 1.5mm <sup>2</sup> | CONTROL VOLTAGE      | H07Z-K BLACK |
| 2.5mm <sup>2</sup> | BUS WIRES            | H07Z-K BLACK |
| 1.5mm <sup>2</sup> | AC-MEASURING VOLTAGE | H07Z-K BLACK |
| 2.5mm <sup>2</sup> | AC-MEASURING CIRCUIT | H07Z-K BLACK |



|      |               |          |     |            |                          |   |                  |  |                        |        |          |
|------|---------------|----------|-----|------------|--------------------------|---|------------------|--|------------------------|--------|----------|
| 04   | AS BUILT SITE | 01.12.06 | KRA | 17.05.2005 | US STEEL KOSICE/SLOVAKIA |  | WIRING MATERIALS |  | 50_3023.01_000.701 xxx | V      | -E21-ASR |
| 03   | AS BUI WORKS  | 14.11.05 | BER | BER        | 50_3023.01               |   |                  |  |                        | +ASR21 |          |
| 02   | HEATING       | 23.08.05 | BER | Gepr.      | PROTECTION PANEL         |   |                  |  |                        |        |          |
| 2021 | ANALYSIS      | 01.12.06 | BER | Norm       | Urspr.                   | Erst.f.   | WIRING DIAGRAM   |  | 025_011551-5351        | 04     | 12BL     |

HJ011551  
=E21:ASR+ASR21  
K03  
KLUEGH KRAMBECK

Schutzvermerk nach DIN 34 beachten!





[illegible]



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| Querverbindungen                    |  |                        |                |           |               |        |        |        |        | 1                        | 2 | 3 | 4 | 5 | 6 | 7 | 8                    |  |
|-------------------------------------|--|------------------------|----------------|-----------|---------------|--------|--------|--------|--------|--------------------------|---|---|---|---|---|---|----------------------|--|
| Rückverweis                         | Potential Position Querschnitt         | Leitungsmaterial Farbe | Ausgangsklemme | Ziel 1    | Ziel 2        | Ziel 3 | Ziel 4 | Ziel 5 | Ziel 6 | A                        | B | C | D | E | F |   |                      |  |
| G01                                 | +L1.1<br>26<br>2,5mm²<br>H07Z-K<br>BK  | -X1                    | 1 -FA1.11      | 2 -FA1.12 | 2             |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | -L1.1<br>26<br>2,5mm²<br>H07Z-K<br>BK  | -X1                    | 3 -FA1.11      | 4 -FA1.12 | 4             |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | +L1.3<br>26<br>2,5mm²<br>H07Z-K<br>BK  | -X1                    | 11 -FA1.32     | 2 -FA1.31 | 2             |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | -L1.3<br>26<br>2,5mm²<br>H07Z-K<br>BK  | -X1                    | 13 -FA1.32     | 4 -FA1.31 | 4             |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | +L1.11<br>26<br>2,5mm²<br>H07Z-K<br>BK | -X1                    | 21 -FA1.11     | 1 -K11    | A1            |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | -L1.11<br>26<br>2,5mm²<br>H07Z-K<br>BK | -X1                    | 24 -FA1.11     | 3 -K11    | A2            |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | +L1.21<br>26<br>2,5mm²<br>H07Z-K<br>BK | -X1                    | 28 -FA1.21     | 1 -K21    | A1            |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | -L1.21<br>26<br>2,5mm²<br>H07Z-K<br>BK | -X1                    | 31 -FA1.21     | 3 -K21    | A2            |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | +L1.31<br>26<br>2,5mm²<br>H07Z-K<br>BK | -X1                    | 35 -FA1.31     | 1 -K31    | A1            |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | -L1.31<br>26<br>2,5mm²<br>H07Z-K<br>BK | -X1                    | 38 -FA1.31     | 3 -K31    | A2            |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | +L1.12<br>26<br>2,5mm²<br>H07Z-K<br>BK | -X1                    | 55 -FA1.12     | 1 -K12    | A1            |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | -L1.12<br>26<br>2,5mm²<br>H07Z-K<br>BK | -X1                    | 57 -FA1.12     | 3 -K12    | A2            |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | +L1.32<br>26<br>2,5mm²<br>H07Z-K<br>BK | -X1                    | 59 -FA1.32     | 1 -K32    | A1            |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| G01                                 | -L1.32<br>26<br>2,5mm²<br>H07Z-K<br>BK | -X1                    | 61 -FA1.32     | 3 -K32    | A2            |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| N01                                 | 0<br>1,5mm²<br>H07Z-K<br>BK            |                        | -F13           | 47 -F26   | 54            |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| N01                                 | 0<br>1,5mm²<br>H07Z-K<br>BK            |                        | -F26           | 56 -X1    | S26<br>11     |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| N01                                 | PE<br>88<br>4,0mm²<br>H07Z-K<br>GN/VE  |                        | -F26           | PE PE     |               |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| N01                                 | 0<br>1,5mm²<br>H07Z-K<br>BK            |                        | -F27           | 11 -R1    | -F27<br>2     |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| N01                                 | 0<br>1,5mm²<br>H07Z-K<br>BK            |                        | -F27           | 12 -R2    | -F27<br>2     |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| N01                                 | +L1.11<br>0<br>1,5mm²<br>H07Z-K<br>BK  | -X1                    | 22 -F13        | 32 -F26   | 10 -F26<br>41 |        |        |        |        |                          |   |   |   |   |   |   |                      |  |
| Schutzvermerk nach DIN 34 beachten! |  |                        |                |           |               |        |        |        |        | GROSS CONNECTION DIAGRAM |   |   |   |   |   |   | V -E21.ASR<br>+ASR21 |  |
| KRAMBECK                            |  |                        |                |           |               |        |        |        |        | US STEEL KOSICE/SLOVAKIA |   |   |   |   |   |   | 50.3023.01           |  |
| KLUGE                               |  |                        |                |           |               |        |        |        |        | 50.3023.01               |   |   |   |   |   |   | / 001                |  |
| H011551                             |  |                        |                |           |               |        |        |        |        | PROTECTION PANEL         |   |   |   |   |   |   | 025.011551-5351      |  |
| E21.ASR+ASR21                       |  |                        |                |           |               |        |        |        |        | Ersd.: 4                 |   |   |   |   |   |   | 04                   |  |
| 12.12.2006                          |  |                        |                |           |               |        |        |        |        | Ersf.: 3                 |   |   |   |   |   |   | 12BL                 |  |
| AS BUILT SITE 12.06                 |  |                        |                |           |               |        |        |        |        | KRA. Datum 17.05.2005    |   |   |   |   |   |   | 7                    |  |
| AS BUILT WORKS 14.11.05             |  |                        |                |           |               |        |        |        |        | BER Bearb KRAMBECK       |   |   |   |   |   |   | 8                    |  |
| HEATING 23.08.05                    |  |                        |                |           |               |        |        |        |        | BER Gepr. KLUGE          |   |   |   |   |   |   |                      |  |
| Zust. Änderung                      |  |                        |                |           |               |        |        |        |        | Datum Name Norm          |   |   |   |   |   |   |                      |  |
|                                     |  |                        |                |           |               |        |        |        |        | Urspr.: 3                |   |   |   |   |   |   |                      |  |
|                                     |  |                        |                |           |               |        |        |        |        | Ersd.: 4                 |   |   |   |   |   |   |                      |  |
|                                     |  |                        |                |           |               |        |        |        |        | Ersf.: 3                 |   |   |   |   |   |   |                      |  |
|                                     |  |                        |                |           |               |        |        |        |        | WIRING DIAGRAM           |   |   |   |   |   |   |                      |  |
|                                     |  |                        |                |           |               |        |        |        |        | AREVA                    |   |   |   |   |   |   |                      |  |

| Querverbindungen                    |                                |                        |                |           |               |            |         |         |         | 1          | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------------------------|--------------------------------|------------------------|----------------|-----------|---------------|------------|---------|---------|---------|------------|---|---|---|---|---|---|---|
| Rückverweis                         | Potential Position Querschnitt | Leitungsmaterial Farbe | Ausgangsklemme | Ziel 1    | Ziel 2        | Ziel 3     | Ziel 4  | Ziel 5  | Ziel 6  | A          |   |   |   |   |   |   |   |
| N01                                 | +L1.11<br>0<br>1,5mm²          | H07Z-K<br>BK           | -X1            | 23 -R1    | -F27<br>1 -K1 | 13 -K4     | 33      |         |         |            |   |   |   |   |   |   |   |
| N01                                 | -L1.11<br>0<br>1,5mm²          | H07Z-K<br>BK           | -X1            | 25 -F13   | 42 -F13       | 57 -F26    | 11 -F26 | 33 -F26 | 34 -F26 | 39         |   |   |   |   |   |   |   |
|                                     | ----->                         |                        |                | -F26      | 52            |            |         |         |         |            |   |   |   |   |   |   |   |
| N01                                 | +80.1.1<br>0<br>1,5mm²         | H07Z-K<br>BK           | -X1            | 49 -F27   | 1 -K1         | 14 -K4     | 34 -K1  | A1 -X1  | 78 -X1  | -S26<br>10 |   |   |   |   |   |   |   |
| N02                                 | 0<br>1,5mm²                    | H07Z-K<br>BK           |                | -F13      | 41 -K1        | 34         |         |         |         |            |   |   |   |   |   |   |   |
| N02                                 | 0<br>1,5mm²                    | H07Z-K<br>BK           |                | -F13      | 48 -X1        | -S13<br>11 |         |         |         |            |   |   |   |   |   |   |   |
| N02                                 | PE<br>88<br>4,0mm²             | H07Z-K<br>GN/YE        |                | -F13      | PE PE         |            |         |         |         |            |   |   |   |   |   |   |   |
| N02                                 | 0<br>1,5mm²                    | H07Z-K<br>BK           |                | -F14      | 11 -R1        | -F14<br>2  |         |         |         |            |   |   |   |   |   |   |   |
| N02                                 | 0<br>1,5mm²                    | H07Z-K<br>BK           |                | -F14      | 12 -R2        | -F14<br>2  |         |         |         |            |   |   |   |   |   |   |   |
| N02                                 | +L1.21<br>0<br>1,5mm²          | H07Z-K<br>BK           | -X1            | 29 -F13   | 10 -F13       | 33         |         |         |         |            |   |   |   |   |   |   |   |
| N02                                 | +L1.21<br>0<br>1,5mm²          | H07Z-K<br>BK           | -X1            | 30 -R1    | -F14<br>1 -K1 | 33 -K4     | 13 -K1  | 43      |         |            |   |   |   |   |   |   |   |
| N02                                 | -L1.21<br>0<br>1,5mm²          | H07Z-K<br>BK           | -X1            | 32 -F13   | 11 -F13       | 56         |         |         |         |            |   |   |   |   |   |   |   |
| N02                                 | +80.1.2<br>0<br>1,5mm²         | H07Z-K<br>BK           | -X1            | 50 -F14   | 1 -K4         | 14 -K1     | 44 -K4  | A1 -X1  | 79 -X1  | -S13<br>10 |   |   |   |   |   |   |   |
| N03                                 | +L1.11/5<br>0<br>1,5mm²        | H07Z-K<br>BK           | -X1            | 73 -K1    | 23 -K4        | 23         |         |         |         |            |   |   |   |   |   |   |   |
| N03                                 | +L1.1100<br>0<br>1,5mm²        | H07Z-K<br>BK           | -X1            | 77 -K1    | 24 -K4        | 24         |         |         |         |            |   |   |   |   |   |   |   |
| R01                                 | +L1.41<br>0<br>1,5mm²          | H07Z-K<br>BK           | -X1            | 43 -F14   | 10 -F27       | 10 -K11    | 13 -K12 | 13 -K21 | 13 -K31 | 13         |   |   |   |   |   |   |   |
|                                     | ----->                         |                        |                | -K32      | 13 -FA100     | 21 -FA101  | 21      |         |         |            |   |   |   |   |   |   |   |
| R01                                 | +L1.41<br>0<br>1,5mm²          | H07Z-K<br>BK           | -X1            | 44 -F26   | 55 -F26       | 57 -F27    | 15 -F14 | 15      |         |            |   |   |   |   |   |   |   |
| R01                                 | -L1.41<br>0<br>1,5mm²          | H07Z-K<br>BK           | -X1            | 47 -F27   | 5 -F14        | 5          |         |         |         |            |   |   |   |   |   |   |   |
| R01                                 | AC-TRIP<br>0<br>1,5mm²         | H07Z-K<br>BK           | -X1            | 64 -FA100 | 22 -FA101     | 22         |         |         |         |            |   |   |   |   |   |   |   |
| Schutzvermerk nach DIN 34 beachten! |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| KRAMBECK                            |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| KLÜGEH                              |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| H4011551                            |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| E21.ASR+ASR21                       |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 21.12.2006                          |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| AS BUILT SITE 01.12.06              |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| AS BUI. WORKS 11.11.06              |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| HEATING 23.08.05                    |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| Zust. Änderung                      |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| Datum                               |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| Norm                                |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| Ersf.                               |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| Ersd.                               |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| PROTECTION PANEL                    |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 50.3023.01                          |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| US STEEL KOSICE/SLOWAKIA            |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| CROSS CONNECTION DIAGRAM            |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 50.3023.01.000.701.xxx              |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| V =E21.ASR                          |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| +ASR21                              |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 025.011551-5351                     |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 12BL                                |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| Blott11                             |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| / 002                               |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 04                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 03                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 02                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 01                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         |            |   |   |   |   |   |   |   |
| 00                                  |                                |                        |                |           |               |            |         |         |         | </         |   |   |   |   |   |   |   |

| Querverbindungen  |                                      |                           |                |         |           |         |        |        |        |
|---|--------------------------------------|---------------------------|----------------|---------|-----------|---------|--------|--------|--------|
| Rückverweis   | Potential<br>Position<br>Querschnitt | Leitungsmaterial<br>Farbe | Ausgangsklemme | Ziel 1  | Ziel 2    | Ziel 3  | Ziel 4 | Ziel 5 | Ziel 6 |
| A   |                                      |                           |                |         |           |         |        |        |        |
| R01   | TCSE<br>0<br>1,5mm <sup>2</sup>      | H07Z-K<br>BK              | 65 -F14<br>-X1 | 9 -F27  | 9         |         |        |        |        |
| S01   | ACN<br>26<br>2,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F13           | 12 -X1  | -S13<br>4 |         |        |        |        |
| S01   | AC3<br>26<br>2,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F13           | 13 -X1  | -S13<br>3 |         |        |        |        |
| S01   | AC2<br>26<br>2,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F13           | 14 -X1  | -S13<br>2 |         |        |        |        |
| S01   | AC1<br>26<br>2,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F13           | 15 -X1  | -S13<br>1 |         |        |        |        |
| S01   | ACN<br>26<br>2,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F13           | 27 -F13 | 28 -F13   | 29 -F13 | 30     |        |        |
| S01   | ABN<br>26<br>2,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F26           | 12 -X1  | -S26<br>4 |         |        |        |        |
| S01   | AB3<br>26<br>2,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F26           | 13 -X1  | -S26<br>3 |         |        |        |        |
| S01   | AB2<br>26<br>2,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F26           | 14 -X1  | -S26<br>2 |         |        |        |        |
| S01   | AB1<br>26<br>2,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F26           | 15 -X1  | -S26<br>1 |         |        |        |        |
| S01   | ABN<br>26<br>2,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F26           | 27 -F26 | 28 -F26   | 29 -F26 | 30     |        |        |
| S01   | PE<br>88<br>4,0mm <sup>2</sup>       | H07Z-K<br>GN/YE           | -S13           | 8 PE    |           |         |        |        |        |
| S01   | PE<br>88<br>4,0mm <sup>2</sup>       | H07Z-K<br>GN/YE           | -S26           | 8 PE    |           |         |        |        |        |
| S02   | 2VL2<br>0<br>1,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F26           | 44 -X1  | -S26<br>6 |         |        |        |        |
| S02   | 2VL1<br>0<br>1,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F26           | 45 -X1  | -S26<br>5 |         |        |        |        |
| S02   | VN<br>0<br>1,5mm <sup>2</sup>        | H07Z-K<br>BK              | -F26           | 59 -X1  | -S26<br>9 |         |        |        |        |
| S02   | 2VL3<br>0<br>1,5mm <sup>2</sup>      | H07Z-K<br>BK              | -F26           | 60 -X1  | -S26<br>7 |         |        |        |        |
| Schutzvermerk nach DIN 34 beachten!                                     |                                      |                           |                |         |           |         |        |        |        |
| KRAMBECK  |                                      |                           |                |         |           |         |        |        |        |
| KLUGER  |                                      |                           |                |         |           |         |        |        |        |
| H011551   |                                      |                           |                |         |           |         |        |        |        |
| E21 ASR+ASR21   |                                      |                           |                |         |           |         |        |        |        |
| 21.12.2006  |                                      |                           |                |         |           |         |        |        |        |
| Zust. Änderung Datum Name Norm Urspr.: Ersd.: Ersd.: 4                  |                                      |                           |                |         |           |         |        |        |        |
| 04 AS BUILT SITE 01.12.06 RM. Datum 17.05.2005 US STEEL KOSICE/SLOWAKIA |                                      |                           |                |         |           |         |        |        |        |
| 03 AS BUI. WORKS. 11.11.05 BER Beorb KRAMBECK 50.3023.01                |                                      |                           |                |         |           |         |        |        |        |
| 02 HEATING 23.08.05 BER Gepr. KLUGE PROTECTION PANEL                    |                                      |                           |                |         |           |         |        |        |        |
| CROSS CONNECTION DIAGRAM 50.3023.01.000.701.xxx V -E21 ASR              |                                      |                           |                |         |           |         |        |        |        |
| WIRING DIAGRAM 025.011551-5351 04                                       |                                      |                           |                |         |           |         |        |        |        |
| Blatt 12 / 003  |                                      |                           |                |         |           |         |        |        |        |
| 12BL  |                                      |                           |                |         |           |         |        |        |        |

