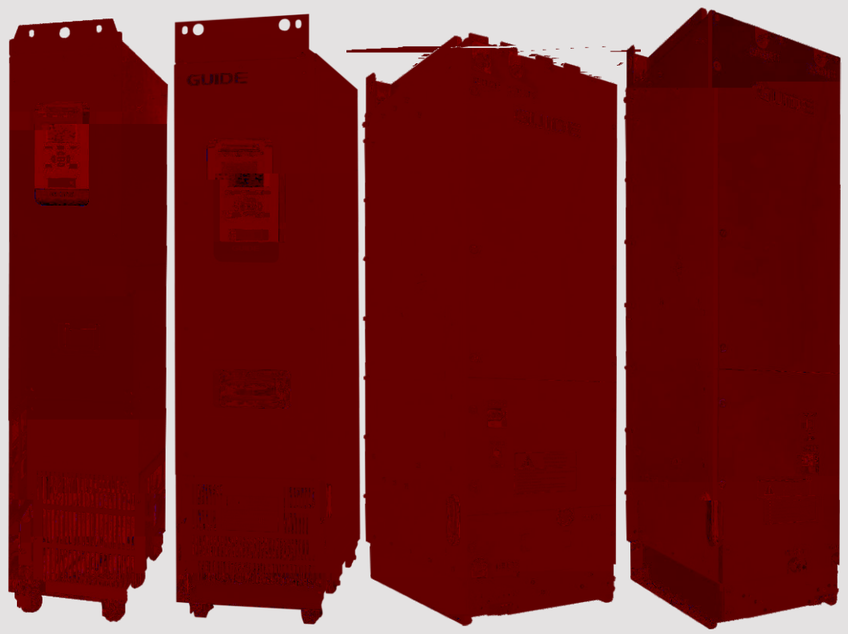
# HF680N系列
# 高性能工程型驱动




GUIDE

Usf_l Esgbc Rcaf lmjmew Am,* Jrb,

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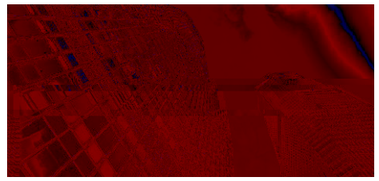
uuu,ebcrca,amk

2..+..55+35.

0.04,./

Amnwpjefr¦ Usf_l Esgbc Rcaf lmjmew Am,* Jrb,



# ? @MSR SQ

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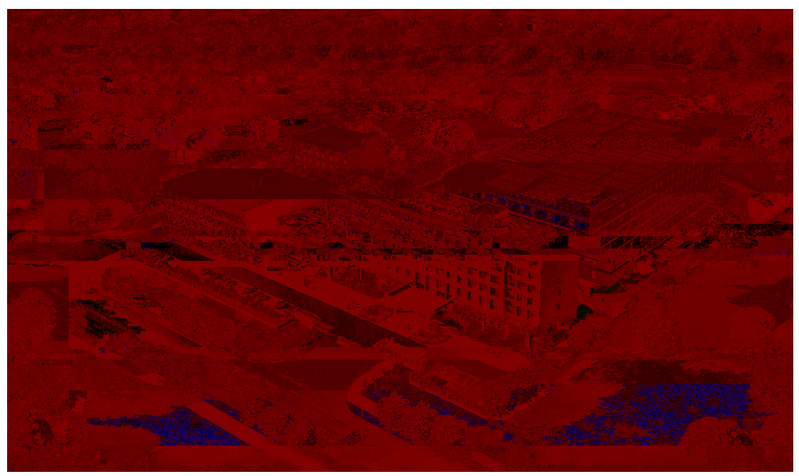





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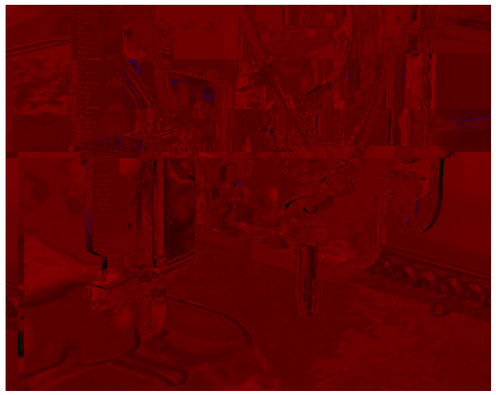

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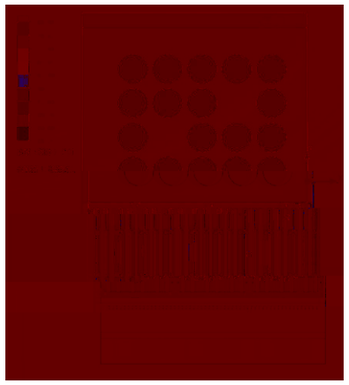



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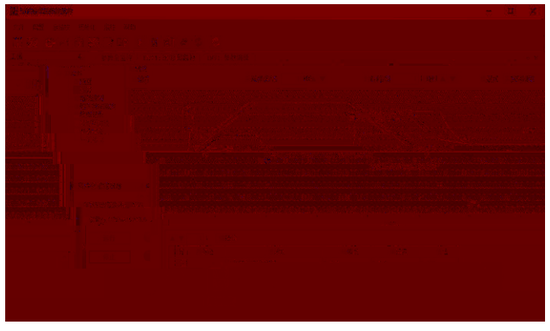



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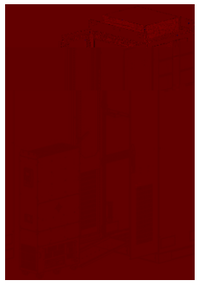

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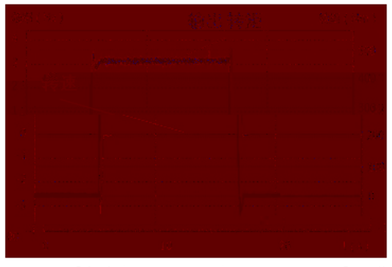
1



01.Lk .pnk 0..#

23iU



01.Lk .pnk 0..#

15iU

01.Lk





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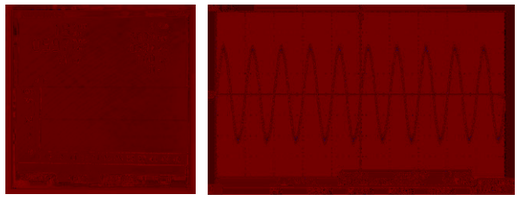


FD46.L./

FD46.L.0

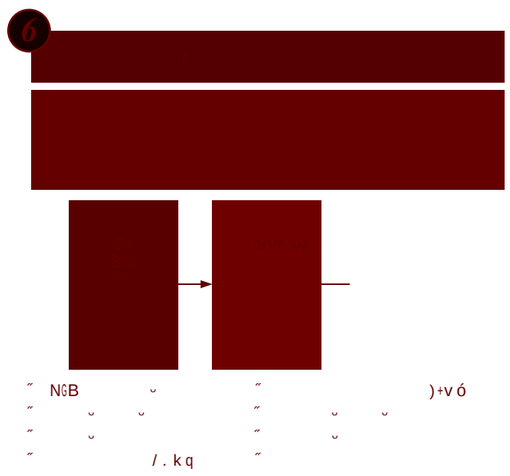
FD46.L.1

FD46.L/1

FD46.LJA./

FD46.LJA.0

FD46.LJA.1





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# FD46.L

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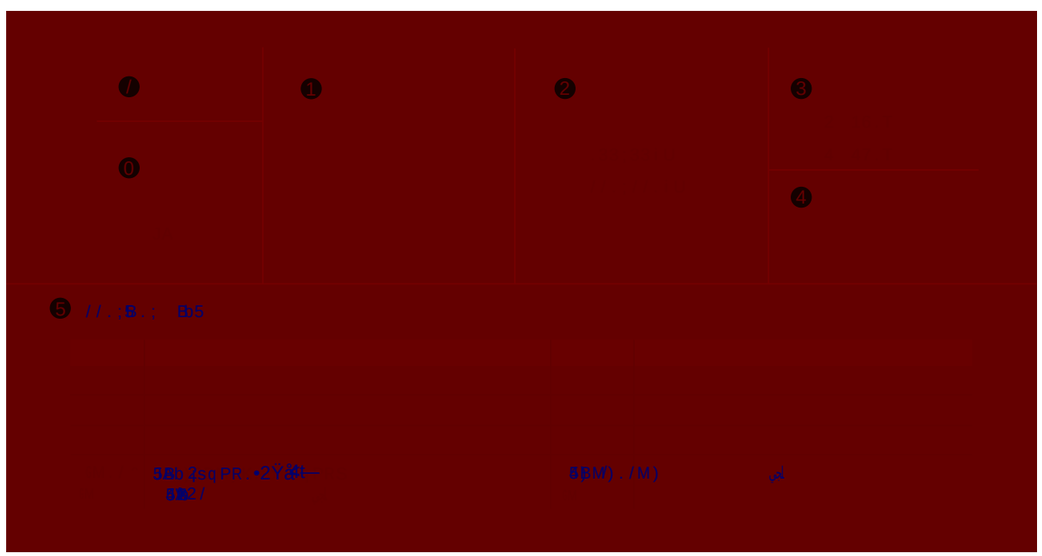
FD46.L JA VVV + VVVV + 2 + VVV ) V

7 0 1 2 3 4 5



## FD46.LJA//

| | | |
|---|---|---|
| 输入 | | 44.T ⍝ 47.T |
| | | +/3# ⍝ /.# |
| 输出 | | .⍝ 47.T |
| | | / p |
| | | .⍝ 1..Fx |
| 控制特性 | | ⌄ ⌄ |
| | | /iFx ⍝ /.iFx p |
| | | 3 /3.# / p<br>3 /6.# / p<br>/0..iU //.# 3 / p<br>/0..iU /4.# 3 3 p |
| 其它要求 | | p |
| | | +/._ ⍝ )3._ 3._ ⍝ 4._ ._ |
| | | GNO. |
| | | |
| 水冷系统技术指标 | | - - 482 |
| | ⍝J-kgl' | U/ 05 U0 13 U1 20 |
| | ⍝_' | 33 |
| | _ | /. |
| | KN_ | .,4 |
| | ⍝ln_' | 6.\|0.. |
| | | - N? ⌄ NCV Rcdjml |
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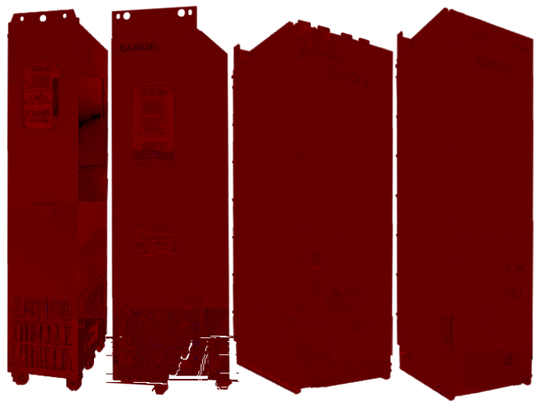
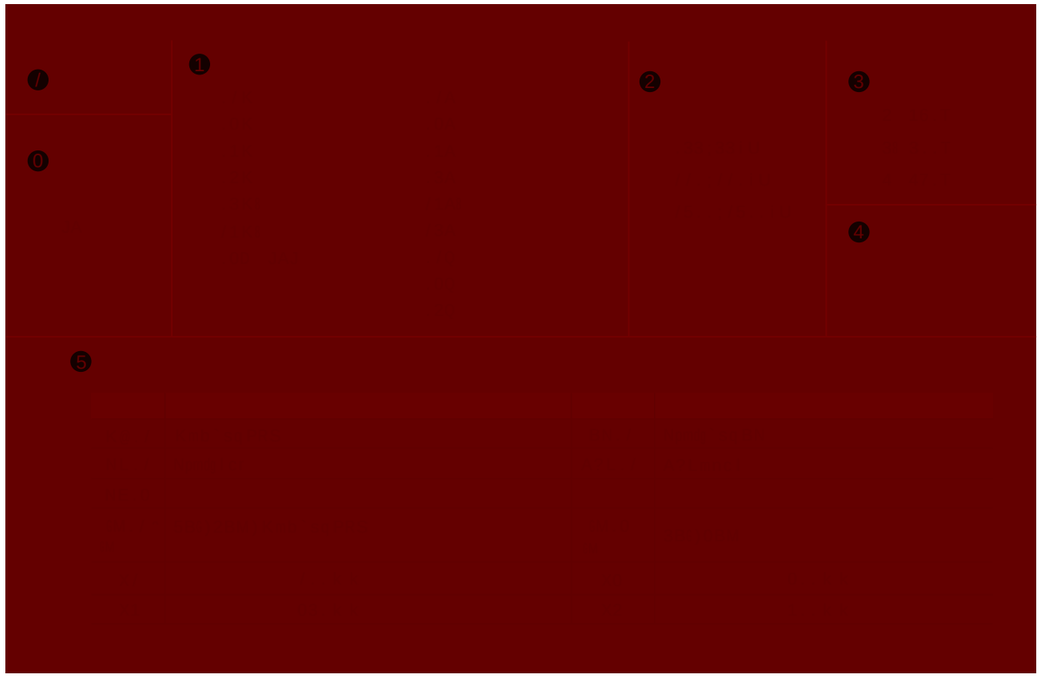
## FD46.L



FD46.L JA VVV + VVVV + 2 + VVV ) V



# FD46.L./



## FD46.L./

| | iU | iT? | ? | ? | | kk F(U(B | ie |
|---|---|---|---|---|---|---|---|
| SL;16.T 16.T⇒26.T 16.T | | | | | | | |
| | | | | | | | |
| | 213 | 231 | 431 | 6.. | K2 | /113(1..(4.. | 0.. |
| | 43. | 457 | 76. | /0.. | K2 | /113(1..(4.. | 0.. |
| | 6.. | 620 | /0/3 | /266 | 0(K2 | Z | Z |
| | /0.. | /041 | /600 | 0010 | 0(K2 | Z | Z |
| | /6.. | /672 | 0512 | 1126 | 1(K2 | Z | Z |
| | 02.. | 0303 | 1423 | 2242 | 2(K2 | Z | Z |
| | 1... | 1/35 | 2334 | 336. | 3(K2 | Z | Z |
| | 14.. | 1566 | 3245 | 4474 | 4(K2 | Z | Z |
| /0 | | | | | | | |
| | /0.. | /041 | /600 | 0010 | 0(K2 | Z | Z |
| | 02.. | 0303 | 1423 | 2242 | 2(K2 | Z | Z |
| | 14.. | 1566 | 3245 | 4474 | 4(K2 | Z | Z |
| SL;47.T 44.T⇒47.T 47.T | | | | | | | |
| | | | | | | | |
| FD46.L./K⇒43.⇒4 | 43. | 46. | 35. | 5.. | K2 | /113(1..(4.. | 0.. |
| FD46.L./K⇒71.⇒4 | 71. | 753 | 60. | /... | K2 | /113(1..(4.. | 0.. |
| FD46.L./⇒/0/.⇒4 | /0/. | /05/ | /.41 | /1.0 | 0(K2 | Z | Z |
| FD46.L./⇒/51.⇒4 | /51. | /6/3 | /3/7 | /64. | 0(K2 | Z | Z |
| FD46.L./⇒04..⇒4 | 04.. | 0501 | 0056 | 057. | 1(K2 | Z | Z |
| FD46.L./⇒124.⇒4 | 124. | 141. | 1.15 | 150. | 2(K2 | Z | Z |
| FD46.L./⇒210.⇒4 | 210. | 2316 | 1575 | 243. | 3(K2 | Z | Z |
| FD46.L./⇒30..⇒4 | 30.. | 3223 | 2334 | 336. | 4(K2 | Z | Z |
| /0 | | | | | | | |
| FD46.L./⇒/0/.⇒4⇒R | /0/. | /05/ | /.41 | /1.0 | 0(K2 | Z | Z |
| FD46.L./⇒/51.⇒4⇒R | /51. | /6/3 | /3/7 | /64. | 0(K2 | Z | Z |
| FD46.L./⇒124.⇒4⇒R | 124. | 141. | 1.15 | 150. | 2(K2 | Z | Z |
| FD46.L./⇒30..⇒4⇒R | 30.. | 3223 | 2334 | 336. | 4(K2 | Z | Z |

/ ⌄ JAB
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3 ⌄ FD46.L./K p

## FD46.L./

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# FD46.L.0



## FD46.L.0

| | ? | ? | iU | ? | iU | | Ykk[ F(U(B | ie |
|---|---|---|---|---|---|---|---|---|
| | | SL;16.T 16.T+26.T | | 16.T | | | | |
| FD46.L.0K+/10+2 | 043 | 1.6 | /7/ | 0/1 | /10 | @2 | 70.(0/.(240 | 33 |
| FD46.L.0K+/63+2 | 11. | 162 | 016 | 076 | /63 | @3 | //00(00/(300 | 6. |
| FD46.L.0K+03.+2 | 263 | 342 | 13. | 2.1 | 03. | @4 | /1/3(03.(4/6 | /0. |
| FD46.L.0K+1/3+2 | 323 | 412 | 171 | 3.6 | 1/3 | | | |
| FD46.L.0K+133+2 | 4/. | 5/. | 22. | 351 | 133 | | | |
| FD46.L.0K+2..+2 | 446 | 555 | 260 | 423 | 2.. | | | |
| | 50. | 616 | 3/7 | 504 | 23. | | | |
| | 263 | 342 | 13. | 2.1 | 03. | @4 | Z | Z |
| | 323 | 412 | 171 | 3.6 | 1/3 | | | |
| | 4/. | 5/. | 22. | 351 | 133 | | | |
| | 446 | 555 | 260 | 423 | 2.. | | | |
| | 50. | 616 | 3/7 | 504 | 23. | | | |
| | 62. | 756 | 4.4 | 6.4 | 3.. | 0(@4 | Z | Z |
| FD46.L.0A+41.+2 | /.7. | /046 | 564 | /./4 | 41. | | | |
| FD46.L.0A+6..+2 | /22. | /454 | /.17 | /07. | 6.. | | | |
| FD46.L.0A+/0..+2 | 0/4. | 03/2 | /336 | /713 | /0.. | 1(@4 | Z | Z |
| FD46.L.0A+/4..+2 | 066. | 1130 | 0.56 | 036/ | /4.. | 2(@4 | Z | Z |
| FD46.L.0A+0..+2 | 14.. | 2/7. | 0375 | 1004 | 0... | 3(@4 | Z | Z |
| FD46.L.0A+02..+2 | 210. | 3.05 | 1//5 | 165/ | 02.. | 4(@4 | Z | Z |



HF680N多传动产品

## FD46.L.0

| | ? | ? | iU | ? | iU | | Ykk[ F(U(B | ie |
|---|---|---|---|---|---|---|---|---|
| | | SL;3..T 16.T+3..T | | 3..T | | | | |
| FD46.L.0K+/4..+3 | 0.0 | 023 | /63 | 0/0 | /4. | @2 | 70.(0/.(240 | 33 |
| FD46.L.0K+00..+3 | 1.1 | 145 | 055 | 07/ | 00. | @3 | //00(00/(300 | 6. |
| FD46.L.0K+1/3+3 | 17. | 251 | 135 | 2/5 | 1/3 | @4 | /1/3(03.(4/6 | /0. |
| FD46.L.0K+133+3 | 216 | 31/ | 2./ | 25. | 133 | | | |
| FD46.L.0K+2..+3 | 3.3 | 4/0 | 240 | 31. | 2.. | | | |
| FD46.L.0K+23..+3 | 37. | 5/3 | 32. | 374 | 23. | | | |
| | 40/ | 531 | 346 | 440 | 3.. | | | |
| | 52. | 675 | 455 | 520 | 34. | | | |
| | 17. | 251 | 135 | 2/5 | 1/3 | @4 | Z | Z |
| | 216 | 31/ | 2./ | 25. | 133 | | | |
| | 3.3 | 4/0 | 240 | 31. | 2.. | | | |
| | 37. | 5/3 | 32. | 374 | 23. | | | |
| | 451 | 6/4 | 4/4 | 440 | 3.. | | | |
| | 52. | 675 | 455 | 520 | 34. | | | |
| FD46.L.0A+6..+3 | /.2. | /04. | 730 | /.4. | 6.. | 0(@4 | Z | Z |
| FD46.L.0A+/..+3 | /26. | /572 | /132 | /103 | /... | | | |
| FD46.L.0A+/3..+3 | /641 | 0036 | /5.3 | /765 | /3.. | 1(@4 | Z | Z |
| FD46.L.0A+0..+3 | 06.3 | 12.. | 0345 | 0427 | 0... | 2(@4 | Z | Z |
| FD46.L.0A+03..+3 | 1256 | 20/3 | 1/61 | 11// | 03.. | 3(@4 | Z | Z |
| FD46.L.0A+10..+3 | 2/30 | 3.10 | 1577 | 2016 | 10.. | 4(@4 | Z | Z |

## FD46.L.0

| | ? | ? | iU | ? | iU | | Yk k[ F(U(B | ie |
|---|---|---|---|---|---|---|---|---|
| | | SL:47.T 44.T⇄47.T | | 47.T | | | | |
| FD46.L.0K+/10+4 | //3 | /30 | /4. | /04 | /10 | @2 | 70.(0/.(240 | 33 |
| FD46.L.0K+/4.+4 | /17 | 016 | 03. | /30 | /4. | | | |
| FD46.L.0K+03.+4 | 0/6 | 1.. | 1/3 | 016 | 03. | @3 | //00(00/(300 | 6. |
| FD46.L.0K+1/3+4 | 052 | 16/ | 2.. | 1.. | 1/3 | @5 | /173(02.(4.. | /23 |
| FD46.L.0K+2..+4 | 127 | 254 | 3.. | 16/ | 2.. | | | |
| FD46.L.0K+3..+4 | 214 | 311 | 34. | 254 | 3.. | | | |
| | 266 | 4.. | 41. | 311 | 34. | | | |
| | 327 | 454 | 5/. | 4.. | 41. | | | |
| | 475 | //21 | /0.. | 540 | 6.. | 0(@5 | Z | Z |
| | /.24 | /5/2 | /6.. | //21 | /0.. | | | |
| | /346 | /7.3 | 0... | /5/2 | /6.. | 1(@5 | Z | Z |
| | /521 | 0064 | 02.. | /7.3 | 0... | 2(@5 | Z | Z |
| | 0.7/ | 0635 | 1... | 0064 | 02.. | | | |
| FD46.L.0A+1...+4 | 04/2 | 1207 | 14.. | 0635 | 1... | 3(@5 | Z | Z |
| FD46.L.0A+14..+4 | 1/15 | 14/7 | 16.. | 1207 | 14.. | 4(@5 | Z | Z |

/ ˘ FD46.L.0K
0 ˘ FD46.L.0K
1 ˘ FD46.L.0K @5 6sF
2 ˘ @5 p

## FD46.L.0

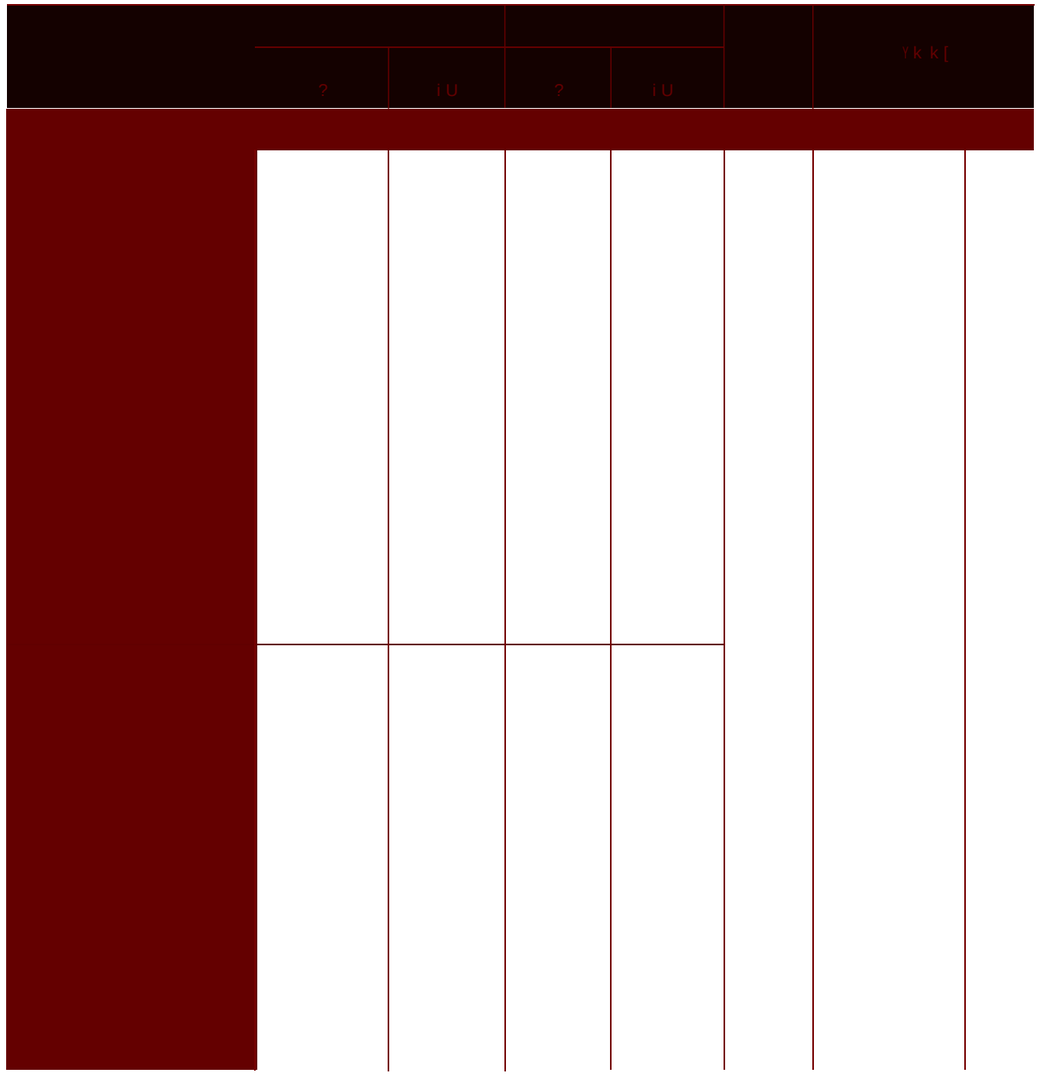
| | |
|---|---|
| | 16.T⇄26.T<br>16.T⇄3..T<br>44.T⇄47.T |
| | 3.-4.Fx |
| | +/3#⇄)/.# |
| | ?DC |
| | ˘ p |
| | .,777 |
| | 1# p |
| | /3.# 3 /<br>/6.# 3 / p |
| | 35.T⇄5/.T 2..T p<br>35.T⇄6/.T 3..T p<br>/...T⇄//3.T 47.T p |
| | /iFx⇄/.iFx |

# FD46.L.1

## FD46.L.1

| | ? | iU | ? | iU | | Yk k[ F(U(B |
|---|---|---|---|---|---|---|
| FD46.L.1K+//.+2 | 0/3 | //. | /7. | 7. | | |
| FD46.L.1K+/10+2 | 043 | /10 | 0/4 | //. | | |
| FD46.L.1K+/4.+2 | 11. | /4. | 046 | /10 | @/7.F | D46. Ī هم ŧ |
| FD46.L.1K+/63+2 | 143 | /63 | 110 | /4. | | |
| FD46.L.1K+0..+2 | 2/3 | 0.. | 145 | /63 | | |
| FD46.L.1K+00.+2 | 216 | 00. | 2/6 | 0.. | | |
| FD46.L.1K+03.+2 | 263 | 03. | 22. | 00. | | |
| FD46.L.1K+06.+2 | 323 | 06. | 265 | 03. | | |
| FD46.L.1K+1/3+2 | 4/. | 1/3 | 326 | 06. | | |
| | | | | | | /1/3(03.(4/6 |

FD46.L.1



## FD46.L.1

| | |
|---|---|
| | 32.T⇸5..T<br>32.T⇸6/.T<br>6..T⇸//3.T |
| | &TA' ˘ &QTA' ˘T-D p |
| | ˘ ˘ ˘ Npmdg`sq BN p |
| | 16.T⇸24.T p<br>16.T⇸3..T p<br>44.T⇸47.T p |
| | .⇸1..Fx |
| | .Fx-0..#&TA QTA' ˘ .,6Fx-/3.#&T-D' |
| | /iFx⇸/.iFx |
| | /3.# 3 /<br>/6.# 3 / p |

# FD46.L/1

## FD46.L/1

| | T | ? | ? | Sba<br>T | iU | iU | R | R | | F(U(B | ie' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 6..T⇸/0..T | | | | | | | |
| FD46.L/1K:25..:4 | 47. | 12. | 111 | //36 | 251 | 5.7 | /,2/7 | .,724 | @5? | 757(02.(4.. | /.. |
| FD46.L/1K:35..:4 | 47. | 2/. | 2.0 | //36 | 35. | 633 | /,/55 | .,563 | | | |
| FD46.L/1K:51..:4 | 47. | 31. | 3/7 | //36 | 515 | //.3 | .,7/. | .,4.5 | | | |
| FD46.L/1K:61..:4 | 47. | 4.. | 366 | //36 | 612 | /03/ | .,6.2 | .,314 | | | |
| FD46.L/1K:7..:4 | 47. | 43. | 415 | //36 | 7.2 | /133 | .,520 | .,273 | | | |
| FD46.L/1K:/..:4 | 47. | 50/ | 5.5 | //36 | /..0 | /3.1 | .,447 | .,224 | | | |
| FD46.L/1A:/24..:4 | 47. | /.4. | /.17 | //36 | /251 | 00/. | .,233 | .,1.1 | @5?(0 | Z | Z |
| FD46.L/1A:/44..:4 | 47. | /0.. | //54 | //36 | /446 | 03.0 | .,2.0 | .,046 | | | |
| FD46.L/1A:/6..:4 | 47. | /1.. | /052 | //36 | /6.5 | 05// | .,15/ | .,025 | | | |
| FD46.L/1A:0..:4 | 47. | /220 | /2/1 | //36 | 0..2 | 1..5 | .,113 | .,001 | | | |

## FD46.L/1

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| | .T⇸6/3T?A & '<br>3.Fx |

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## FD46.L/1



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# FD46.LJA./

## FD46.LJA./

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|---|---|---|---|---|---|---|---|
| 44.T\|47.T | | | | | | | |
| FD46.LJA./K+/011-4 | /011 | /15. | //21 | /2.. | N/ | //..(10.(303 | 04. |
| FD46.LJA./K+/713-4 | /713 | 0/3. | /574 | 00.. | | | |
| 44.T\|47.T | | | | | | | |
| FD46.LJA.2K+/011-4 | /011 | /15. | //21 | /2.. | N/ | //..(10.(303 | 04. |
| FD46.LJA.2K+/713-4 | /713 | 0/3. | /574 | 00.. | | | |

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0 ⌣
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2 ⌣ JAB
3 ⌣ /713iU ⌣
4 ⌣ ⌣ p

## FD46.LJA./

| | |
|---|---|
| | 44.Tn47.T |
| | 3.-4.Fx |
| | +/3#n)/.# |
| | dJL-0# -2# p<br>0#dJL-q p |
| | ⌣ ⌣ Npmdg`sqBN ⌣ Npmdglcr p |
| | 76# |
| | /3.# 3 / p |
| | .n (/,2/2 |
| | ⌣ ⌣ ⌣ ⌣ p |
| | - - 4 2 |
| J-kgl | GLJCR/ 0.J-kgl GLJCR0 /.J-kgl |
| | 33 |
| | 3 |
| Kn | .,4 |
| In | 3.\|/3. |
| k k | GLJCR/8QKAR/4/1<br>GLJCR08QKAR/0.7 |
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# FD46.LJA.0

## FD46.LJA.0

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|---|---|---|---|---|
| 4 A( JA'D JA'И ₀ρ | Ч" | Г4. Б | /4Ѫ | |
| FD46.LJA.0K-03.-4 | | 03. | 04. | |
| FD46.LJA.0K-1/3.4 | | 1/3 | 10 | |
| FD46.LJA.0K-2..4 | | 2.. | | |
| FD46.LJA.0K-3..4 | | 3.. | | |
| FD46.LJA.0K-34.4 | | 34. | | |
| FD46.LJA.0K-41.4 | | 41. | | |
| FD46.LJA.0K-6..4 | | 6.. | 4 6.. +6..6.. s L ╕ ╕ D | |

/ ⌄ FD46.LJA.0K

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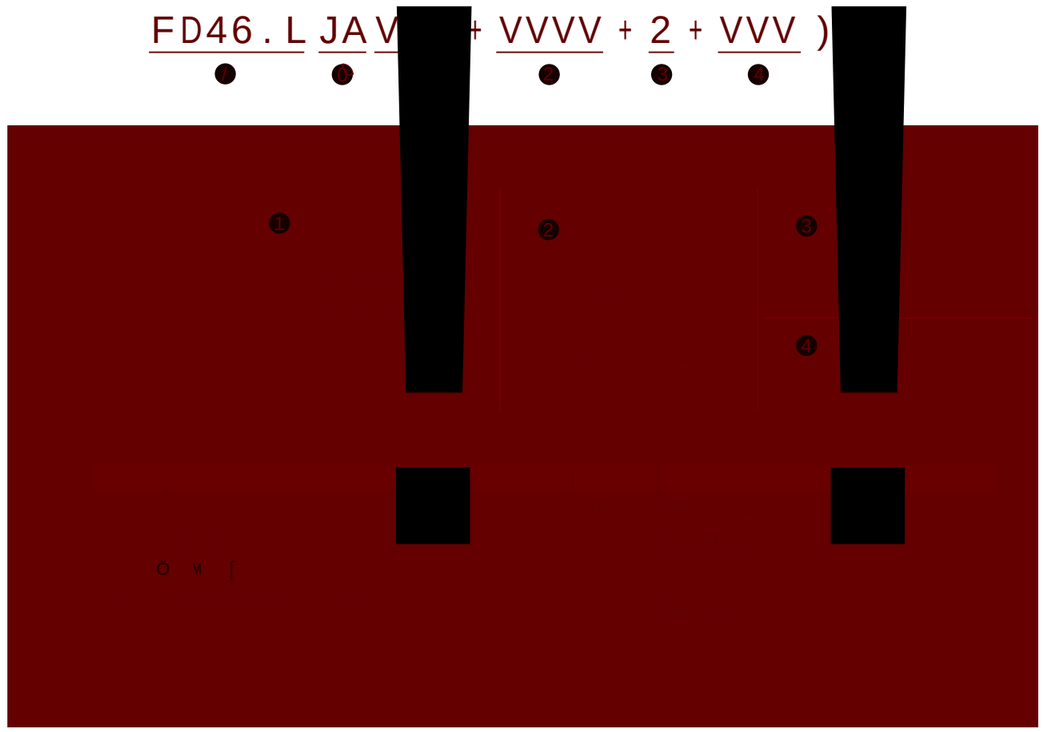
# FD46.LJA.1

| | |
|---|---|
| | 32.T₨5..T<br>6..T₨//3.T |
| | &TA'⌄ &QTA'⌄T-D p |
| | ⌄ ⌄ ⌄ Npmdg`sqBN p |
| | 16.T\|24.T& 'p<br>44.T\|47.T& 'p |
| | .₨1..Fx |
| | .Fx-0..#&TA QTA'⌄.,6Fx-/3.#&T-D' |
| | /iFx₨/.iFx |
| | /3.# 3 / p<br>7..iU /0.# 3 / p |



6.1.1

| | |
|---|---|
| | BA32.+//..T |
| | |
| | .T|47.T 3# |
| | 3# |
| | .Fx|4.Fx |
| | /3.# 4.q |
| | /,.iFx|4,.iFx |
| | /..# |
| | |
| | ˘PQ263 ˘ |
| | ˘ - ?0/ ?00˘ ˘ |
| | |
| | ˘ ˘ |
| | ˘ ˘ ˘ ˘ ˘ |
| | 3 ˘ 0 .ñ)/.T .k?-2k?ñ0.k? |
| | 1 / 0 ˘ 0 .ñ)/.T .k?-2k?ñ0.k? |
| | ˘ ˘ ˘ ˘ ˘ |
| -/AB | |
| | BA+?A |
| | ˘ ˘ ˘ ˘ ˘ |
| | ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ |
| | /... /... /.. /# ˘ ˘ ˘ ˘ 5..U-k® 5.iN_|/.4iN_ |
| | +/._ |)3._ 2._ 4._ & ' 3#PF | 73#PF& ' |
| | 7Fx|0..Fx 3,7k-q®&.,4E' |





# FD46.L.7



FD46.L.7D BA+BA



| | | | | |
|---|---|---|---|---|
| / | FD46.L.7K | / | | |
| 0 | | 1 | | |
| 1 | | + | | |
| 2 | | / | | |
| 3 | | + | | |
| 4 | | + | | |
| 5 | | + | | ˘ |

BA+BA p

p p

p

p

| BA+BA | | | &?' | | &k k' J(U(F | &k k' A(B | D&k k' | &l e' |
|---|---|---|---|---|---|---|---|---|
| [illegible] | EBFD46.LBE+/..+6.. | 1 | 3. | | 0..(03. (01. | 2+c//(c/6 +/54(/2. | 0+c4,2 | 04,3 |
| [illegible] | EBFD46.LBE+0..+6.. | 1 | /.. | | 03.(1/3 (07. | 2+c/0(c0. +0/0(/32 | 0+c// | 2/,3 |
| [illegible] | EBFD46.LBE+043+6.. | 1 | /3. | | 033(10. (103 | 2+c//(c/6 +0..(/54 | 0+c// | 34,4(c |

# FD46.L

| | | | |
|---|---|---|---|
| Kmb`sqPRS | KQ./ | EBFD:?KQV/ | Kmb`sqPRS |
| BN | BN./ | EBFD:?BNV/ | Npmdg`sqBN |
| BN | BN.0 | EBFD:?BNV0 | Npmdg`sqBN |
| NL | NL./ | EBFD:?NLV/ | Npmdglcr |
| NL | NL.0 | EBFD:?NLV1 | Npmdglcr |
| A?L | A?L./ | EBFD:?ALV/ | A?Lmncl |
| NE | NE.0 | EBFD:?NEV/ | |
| [illegible] | [illegible] | EBFD43.2TQ./ | |
| [illegible] | [illegible] | 00.1?0/.74./ | |