

???SIEMENS????????????????????100????????????????????????????????
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????????????IP55????????????????
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——????????4*90??——????????????????????????????????????
??——????????????????????IP55????????
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——??Esso Unirex
N3??20????CPU: 7????CPU(CPU
312,CPU 314,CPU 315-2 DP,CPU 315-2 PN/DP,CPU 317-2 DP,CPU 317-2
PN/DP,CPU 319-3 PN/DP) 6 ????? CPU???????????? I/O??CPU 312C?CPU
313C?CPU 313C-2 PtP?CPU 313C-2 DP?CPU 314C-2 PtP?CPU 314C-2
DP? 5 ?????? CPU?CPU 315F-2 DP?CPU 315F-2 PN/DP?CPU 317F-2
DP?CPU 317F-2 PN/DP?CPU 319F-3 PN/DP? 2????CPU(CPU 315T-2 DP,
CPU 317T-2 DP) 18?CPU??-25°C ? +60°C????????????
???????????????????????????????????? SIMATIC S7-300 ?????????? CPU?????? CPU
????????? CPU? ????????????? CPU ?????? CPU? CPU 312????????? CPU
314???????????????????????????????????? CPU 315-2 DP????????/????????????????PROFIBUS
DP???????????? CPU 315-2 PN/DP????????/????????????????PROFIBUS
DP?PROFINET IO????????????????PROFINet???????????????????????????????? CPU
317-2 DP????????????????????PROFIBUS DP???????????????? CPU 317-2
PN/DP????????????????????PROFIBUS DP?PROFINET
IO????????????????PROFINet???????????????????????????????? CPU 319-3
PN/DP????????????????????PROFIBUS DP?PROFINET
IO????????????????PROFINet???????????????????????????????? CPU 312C????????? I/O
???????????????? CPU CPU 313C????????????? I/O ???? CPU CPU 313C-2
PtP????????? I/O ?2???????????????????? CPU CPU 313C-2 DP????????? I/O
?PROFIBUS DP ????????????????? CPU CPU 314C-2 PtP????????????? I/O
?2???????????????????? CPU CPU 314C-2 DP????????????? I/O?PROFIBUS DP
???????????????? CPU CPU 315F-2 DP????? PROFIBUS DP
????????????????/???????????????? CPU 315F-2
PN/DP????????/????????????????PROFIBUS DP?PROFINET
IO????????????????PROFINet???????????????????????????????? CPU 317F-2
DP????????????????????PROFIBUS DP???????????????? CPU 317F-2
PN/DP????????????????????PROFIBUS DP?PROFINET
IO????????????????PROFINet???????????????????????????????? CPU 319F-3

PN/DP????????????????PROFIBUS DP?PROFINET
IO????????????????????PROFInet???????????????????????????????? 6ES7
151-1AA05-0AA1 ??????? IM151-1?90????????????????????6ES71511AA050A
B0*1+6ES79720BA120XA0*1? 6ES7 151-1AA05-0AA4 ??????? IM151-1?35
????????????????????6ES71511AA050AB0*1+6ES79720BA410XA0*1? 6ES7
151-1AA05-0AA5 ??????? IM151-1????????????????????6ES71511AA050
AB0*1+6ES79720BA520XA0*1? 6ES7 151-1AA05-0AB4 ??????? IM151-1?3
5????????????????????6ES71511AA050AB0*1+6ES79720BB410XA0*1? 6ES7
151-1AA05-0AB5 ??????? IM151-1????????????????????6ES71511AA050A
B0*1+6ES79720BB520XA0*1? 6ES7 151-1AB02-0AB0 ET 200S IM 151
?????? 6ES7 151-1BA02-0AB0 ????????? IM151-1 6ES7 151-1CA00-0AB0
???????? IM151-1 6ES7 151-7AB00-0AB0 ET 200S IM 151 ?CPU ??????
6ES7 138-4HA00-0AB0 DP-?????for CPU only) ??????? 6ES7
131-4BB01-0AA0 2?????? 24VDC ?? ?5?? 6ES7 131-4BB01-0AB0 2??????
24VDC ??? ?5?? 6ES7 131-4BD01-0AA0 4?????? 24VDC ?? ?5?? 6ES7
131-4BD01-0AB0 4?????? 24VDC ??? ?5?? 6ES7 131-4BD51-0AA0
4?????? 24VDC ?? ?5?? 6ES7 131-4CD00-0AB0 4?????? UC 24V...48V ?
LED SF (???)????5? 6ES7 131-4EB00-0AB0 2?????? 120VAC ?5?? 6ES7
131-4FB00-0AB0 2?????? 230VAC ?5?? 6ES7 131-4RD00-0AB0 4??????
DC 24V NAMUR 15 MM ???LED SF ?????5? ??????? 6ES7 132-4BB01-0AA0
2?????? 24VDC 0,5A ?? ?5?? 6ES7 132-4BB01-0AB0 2?????? 24VDC 0,5A
??? ?5?? 6ES7 132-4BD02-0AA0 4?????? 24VDC 0,5A ?? ?5?? 6ES7
132-4BB31-0AA0 2?????? ??? ??24V/2A????5? 6ES7 132-4BB31-0AB0
2?????????????? ??24V/2A????5? 6ES7 132-4BD32-0AA0 4?????? 24VDC 2A
?? ?5?? 6ES7 132-4FB01-0AB0 2?????? ??120/230V????5? 6ES7
132-4HB01-0AB0 2?????? 24VDC/230VAC 5A ?5?? 6ES7 132-4HB10-0AB0
2?????? ?????24V-48V/5A???24V-230V/5A?5?? ??????? 6ES7
134-4FB01-0AB0 2?????? ????? ?? 6ES7 134-4FB52-0AB0 2?????????? ??
+/-10V???????? 1MS 6ES7 134-4LB02-0AB0 2?????? ????? ??? (16?) 6ES7
134-4GB01-0AB0 2?????? ????? ?? 2?? 6ES7 134-4GB52-0AB0 2??????????
I-2? 4 - 20MA???????? 1MS? 6ES7 134-4GB11-0AB0 2?????? ????? ?? 4??
6ES7 134-4GB62-0AB0 2?????????? I-4? 4 - 20MA???????? 1MS 6ES7
134-4MB02-0AB0 2?????? ????? ??? (16?) 2?? 6ES7 134-4JB51-0AB0
2?????? RTD????? 6ES7 134-4JB01-0AB0 2?????? ?????? 6ES7
134-4NB01-0AB0 2????????????? ?????????????? 6ES7 134-4NB51-0AB0
2????????????? RTD?????? ??????????? ????????? 6ES7 135-4FB01-0AB0
2?????? ????? ?? 6ES7 135-4GB01-0AB0 2?????? ????? ?? 6ES7
135-4LB02-0AB0 2?????? ????? ??? (16?) 6ES7 135-4MB02-0AB0 2???????

???? ??? (16?) ???? 6ES7 138-4DA04-0AB0 1????24V/100KHZ 6ES7
138-4DB03-0AB0 SSI ?????? 6ES7 138-4DD00-0AB0 2 Pulse (pulse width
modulation, timer) 6ES7 138-4DC00-0AB0 STEP1 ?????? 6ES7
138-4DF01-0AB0 1 SI ???? (RS232 RS422 RS485 ????) 6ES7
138-4DF11-0AB0 1? SI ?????????RS232/422?485 MODBUS/USS 6ES7
138-4DL00-0AB0 1 -U ?? ?????? ?? 5V/24V ?????? 6ES7 138-4GA00-0AB0 4
?IQ-SENSE ??24VC????5? ????? 6ES7 193-4CC20-0AA0 TM-P15S23-A1 f.
PM//2x3 ?????????? 6ES7 193-4CC30-0AA0 TM-P15C23-A1 f. PM/2x3
???????????? 6ES7 193-4CD20-0AA0 TM-P15S23-A0 f. PM/2x3 ??????????
6ES7 193-4CD30-0AA0 TM-P15C23-A0 f. PM/2x3 ????????????? 6ES7
193-4CE00-0AA0 TM-P15S22-01 f. PM/2x2 ???? ?????? 6ES7
193-4CE10-0AA0 TM-P15C22-01 f. PM/2x2 ????????????? 6ES7
193-4CA20-0AA0 TM-E15S24-A1 f. EM/2x4 ????????????? ?5?? 6ES7
193-4CA30-0AA0 TM-E15C24-A1 f. EM/2x4 ????????????? ?5?? 6ES7
193-4CB20-0AA0 TM-E15S24-01 f. EM/2x4 ????????????? ?5?? 6ES7
193-4CB30-0AA0 TM-E15C24-01 f. EM/2x4 ????????????? ?5?? 6ES7
193-4CB00-0AA0 TM-E15S23-01 f. EM/2x3 ????????????? ?5?? 6ES7
193-4CB10-0AA0 TM-E15C23-01 f. EM/2x3 ????????????? ?5?? 6ES7
193-4CA40-0AA0 TM-E15S26-A1 für EM/2x6 ????????????? ?5?? 6ES7
193-4CA50-0AA0 TM-E15C26-A1 für EM/2x6 ????????????? ?5?? 6ES7
193-4JA00-0AA0 SIMATIC DP?ET 200S???????? ?? 6ES7 193-4GA00-0AA0
????TM-P?TM-E????? 3 x 10 MM,??5? 6ES7 193-4GB00-0AA0
????????????????????????????????5? ET200M: 6ES7 153-1AA03-0XA1 IM153-1??????90
????????????????????????6ES71531AA030XB0*1+6ES79720BA120XA0*1? 6ES7
153-1AA03-0XA4 IM153-1??????35????????????????????6ES71531AA030XB0*1
+6ES79720BA410XA0*1? 6ES7 153-1AA03-0XA5
IM153-1????????????????????????????????
?6ES71531AA030XB0*1+6ES79720BA520XA0*1? 6ES7 153-1AA03-0XB4 I
M153-1??????35????????????????????6ES71531AA030XB0*1+6ES79720BB410X
A0*1? 6ES7 153-1AA03-0XB5 IM153-1????????????????????????????
?6ES71531AA030XB0*1+6ES79720BB520XA0*1? S7-300?????PLC?????????
CPU????????????IO????????????????????????S7-300????????CPU????????????IO?????
????????? ???PLC??S7-300??? 20?????CPU: 7?????CPU(CPU 312,CPU
314,CPU 315-2 DP,CPU 315-2 PN/DP,CPU 317-2 DP,CPU 317-2
PN/DP,CPU 319-3 PN/DP) 6 ????? CPU???????????? I/O??CPU 312C?CPU
313C?CPU 313C-2 PtP?CPU 313C-2 DP?CPU 314C-2 PtP?CPU 314C-2
DP? 5 ??????? CPU?CPU 315F-2 DP?CPU 315F-2 PN/DP?CPU 317F-2
DP?CPU 317F-2 PN/DP?CPU 319F-3 PN/DP? 2?????CPU(CPU 315T-2 DP,

CPU 317T-2 DP) ???PLC S7-400????????? PLC S7-400????????? ???PLC
S7-300????????? S7-300 ??????PLC ?????????????????? ???PLC
S7-200????????? S7-200??PLC????????????????????????????????? ???PLC
S7-1200????????? SIMATIC S7-1200 CPUSIMATIC S7-1200 ??? CPU
?????????CPU 1211C?CPU 1212C ? CPU1214C S7-400
PLC????????????????????? S7-400 PLC???
???CPU??
????????????????? 4? ??????
??? “SIMATIC NET”?????
??? 5?
?????HMI??? HMI?????PLC???TD200?????????
OP3?OP7?OP17????/??????OP27?OP37?????????????TP7?TP27/37?TP170A/
B??SIMATIC??PC670?????????PC??????HMI?????HMI?????????????ProTool
?????????PLC?? SIMATIC S7????? ?????????? ?1?????????
?????????????????PLC?PC?????????????????????????????????STEP 7?????SIMATIC
S7??S7-300/400?C7 PLC?SIMATIC
WinAC??PC?????????????????????????????STEP
7-Micro/WIN??Windows????????S7-200??PLC????????????? SIMATIC S7?????
????????? ??PC?????
??PC?????WinAC?????????????????????????PLC?????????????????????Windows NT4.
0?????SIMATIC?????????????????WinAC?????PLC?????????PLC?????????????????????
?????????PLC?????????????????PC?????????PLC?????????WinAC?SIMATIC
S7?????????????????????????SIMATIC?????????STEP
7?????????????????WinAC?????????S7????????? SIMATIC S7????? ?????????? ??????
?????????????????????????????????HMI??SCADA?????????????????????????????????????P
roTool?????????????WinCC?
ProTool?????????HMI?????????????????????PC?????????STEP 7??ProTool?????????Pr
oTool/lite?????????????????OP3?OP7?OP17?TD17??ProTool/Pro?????????PC?????
?HMI???ProTool/Pro?????????????????????Windows??????
WinCC?????????????????????????SCADA?Supervisory Control and Data
Acquisition?????????????PC?????WinCC?????????????????STEP 7?????????????PLC
???
??????WinCC5.0?????????????IE?????????????
???SIMATIC??PLC?????1958?????C3,S3,S5,S7?????????????????????????????
?????SIMATIC?PLC?6??????SIMATIC?PLC?6?
1?????????????????1975?????????SIMATIC S3?????????????????????????????
2?1979??S3??SIMATIC S5????????????????????????????? 3?20??80?????S5?????????—
—U??PLC?????????S5-90U?95U?100U?115U?135U?155U? 4?1994?4??S7????

