

**Part 3  
Control Systems (Part 3)**

Producer/Licence No.	Item Description	Technical Details	Category/Additional Tests	Remarks	Cert. No.
<b>Schneider Electric-Schneider Automation ZI Carros 8ème Rue F-06516 Carros France</b>	Modular programmable logic controller  <u>Type</u>  Quantum Automation Platform  <u>Comprising:</u>		ENV1 ENV2 LR Test Specification No1 2015  IACS E10 IEC 61131-2	Expires: 17 May 2021  The equipment is to be installed in suitable metallic cabinets in order to limit the radiated electromagnetic emissions to levels specified within LR Type Approval Test Specification No. 1.	04/00057(E2)
<b>Processors</b>	140 CPU 113 02 140 CPU 113 03 140 CPU 311 10 140 CPU 434 12 U 140 CPU 434 12 A 140 CPU 534 14 A 140 CPU 534 14B  140 CPU 534 14 U	8086 20MHz CPU 8086 20MHz CPU 8086 66MHz CPU 8086 66MHz CPU Unity software 8086 20MHZ CPU Concept software 8086 133MHz CPU Concept software 8086 133MHz CPU Concept software + memory size 8086 133MHz CPU Unity software			
<b>High Performance Processors</b>	140 CPU651 50 140 CPU651 60 140 CPU652 60 140 CPU671 60  140CPU672 61  140 CPU670 60 140 CPU672 60 140 CPU658 60 140 CPU678 61	Processor for complex application Processor for complex application Processor for complex application Processor for application with redundancy (Hot Stand By) Processor for application with redundancy (Hot Stand By) Hot Stand By Processor Hot Stand By Processor Stand Alone Processor Hot Stand By Processor			
<b>Safety Processors</b>	140 CPU651 60S 140 CPU671 60S	Stand Alone Safety CPU Hot Standby Safety CPU			
<b>Power Supplies</b>	140 CPS 111 00 140 CPS 114 20 140 CPS 124 00 140 CPS 124 20 140 CPS 214 00 140 CPS 224 00 140 CPS 414 00 140 CPS 424 00 140 CPS 524 00	120-230 VAC-3A 115-230 VAC-11A, summable 115-230 VAC-10A, summable 115-230 VAC-10A, redundant 24VDC-8A, summable 24VDC-8A, summable 48-60VDC-8A, summable 48-60VDC-8A, summable 125VDC-8A, redundant			

*P.A. Theodorou - Head of Dept*

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<b>Safety I/O</b>	140 SAI 940 00S 140 SDI 953 00S 140 SDO 953 00S	Safety Analogue Inputs Safety Digital Inputs Safety Digital Outputs			
<b>Memory Units X= memory capacity</b>	TSX MCPCx  TSX MFPBx TSX MFPPx TSX MRPCx  TSX MRPFx TSX MRPPx	Flash EPROM and SRAM Memory from 224Kb to 2Mb Flash EPROM Backup memory 96Kb Flash EPROM memory from 218Kb to 4Mb Configurable SRAM memory for application/ file from 768Kb to 7Mb SRAM memory from file 4Mb to 8Mb SRAM memory for application from 218Kb to 384 Kb			
<b>Backplanes</b>	140 XBP002 00 140 XBP003 00 140 XBP004 00 140 XBP006 00 140 XBP010 00 140 XBP016 00 140 XBE 001 00	2 slots backplane 3 slots backplane 4 slots backplane 6 slots backplane 10 slots backplane 16 slots backplane Backplane extender			
<b>Discrete I/O Modules</b>	140 DAI340 00 140 DAI440 00 140 DAI540 00 140 DAI740 00 140 DAI753 00 140 DAO840 00 140 DAO840 10 140 DAO353 00 140 DAO353 01 140 DDO843 00 140 DDI353 00 140 DDI841 00 140 DDI853 00 140 DDM390 00 140 DRA840 00	16*24 Vac input 16*48 Vac input 16*115 Vac input 16*230 Vac input 32*230 Vac input channels 16*24....230 Vac output 16*24....115 Vac output 32*24 Vdc output 32*24 Vdc output 16*10....60 Vdc output channels 32*24 Vdc input 16*10....60 Vdc input 32*10....60 Vdc input channels 16*24 Vac input+8*24 Vdc output 16* Relay output			

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<b>Analogue I/O Modules</b>	140 AVI030 00 140 AVO020 00 140 ACO130 00 140 ACO020 00 140 ACI040 00 140 AMM090 00  140 ARI030 10	8* Voltage/current analogue input 4* Voltage analogue output 8* current analogue output 4* current analogue output 8 current analogue input 4* voltage/current analogue input+4* current analogue output 8 RTD input			
<b>Remote I/O Interface</b>	140 CRA931 00 140 CRA932 00 140 CRP931 00 140 CRP932 00 140CRA312 00 140 CRP312 00 140 NRP954 00 140 NRP954 01C  140 NRP312 00 140 NRP312 01	RIO Drop S908 1 channel RIO Drop S908 2 channels RIO Head S908 1 channel RIO Head S908 2 channel Rio internet communication RIO internet communication RIO optical repeater Remote I/O optical repeater (only coated version) Ethernet converter multimode fibre Ethernet converter monomode fibre			
<b>Terminal Block &amp; Accessories</b>	140 XTS 001 00 140 XTS 002 00 140 XTS 005 00	IP20 compliant 40 positions terminal block 40 position terminal block IP20 compliant 7 positions terminal			
<b>Communication</b>	140 NOE771 00 140 NOE771 01 140 NOE771 11 140 NOC771 11 140 NWM100 00 140 NOM211 00 140 NOM212 00 140 NOM251 00 140 NOM252 00 140 NOC78 000 140 NOC78 100 140 NOP850 00  TCSESM083F23F1 TCSESM063F2CS1  TCSESM063F2CU1	Ethernet TCP/IP network Ethernet TCP/IP network Ethernet TCP/IP network Ethernet TCP/IP network Ethernet TCP/IP network Modbus SL Bus Modbus SL Bus Modbus SL Bus Modbus SL Bus Optical Communication module with Ethernet Communication module with Ethernet Communication module with Ethernet IEC61850 Switch Ethernet IP 8 channels copper Switch Ethernet IP 6 channels copper and 2 multimodal optic fibres Switch Ethernet IP 6 channels copper and 2 unimodal optic fibre			

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<b>Modbus + Accessories</b>	490 NAA 271 0x 490 NRP 254 00 909 NAA 263 20 990 NAD 211 10 990 NAD 211 30 990 NAD 230 00 990 XCA 656 09 AM SA85-002 NW-BP85-00 NW-BP85-002	MB+ cable (x=length) MB+ fibre optic repeater line/drop Programmable cables RS232 MB+ drop cable length 2.4 meters MB+ drop cable 6 meters MB+ tap Fibre optic cable 3 meters MB+ AT adapter (ISA Bus) MB+ Bridge Mux MB+ Bridge Plus			
<b>Special Modules</b>	140 ERT854 20 140 ERT854 30 140 EHC105 00 140 EHC202 00	Time stamping input Time stamping input Fast counting 2 channels Fast counting 5 channels			
<b>ACCESSORIES</b>	ABE7CPA 140XCA 140XCP 140XSM 140XTS TSXMRP TSXMFP	Cables, connectors, taps, memory cards			

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