Overview of CPU Performance

Software packages

Software	Application	Model name		Note
		Q173CPUN	Q172CPUN	
Operating system software	Conveyor assembly use **SV13**	SW6RN-SV13QB	SW6RN-SV13QD	—
	Automatic machinery use **SV22**	SW6RN-SV22QA	SW6RN-SV22QC	
Programming software	Conveyor assembly use **SV13**	SW6RN-GSV13P		Included in the "Integrated start-up support software".
	Automatic machinery use **SV22**	SW6RN-GSV22P		
		SW3RN-CAMP		
	Digital oscilloscope use	SW6RN-DOSCP		

Integrated start-up support software packages MT Developer

Model name	Details	
SW6RN-GSVPROE	SW6RNC-GSVE (Integrated start-up support software) [1 CD-ROM]	• Conveyor assembly software : SW6RN-GSV13P • Automatic machinery software : SW6RN-GSV22P • Cam data creation software : SW3RN-CAMP • Digital oscilloscope software : SW6RN-DOSCP • Communication system software : SW6RN-SNETP • Document print software : SW3RN-DOCPRNP SW20RN-DOCPRNP
	SW6RNC-GSVHELPE (Operation manual [1 CD-ROM])	
	Installation manual	
SW6RNC-GSVSETE	SW6RNC-GSVPROE	
	A30CD-PCF (SSC I/F card (PCMCIA TYPE II 1CH/card))	
	Q170CDCBL3M (A30CD-PCF cable 3m(9.84ft.))	

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System component

<Motion dedicated equipments>

Part name	Model name	Description	Standards
Motion CPU module	Q173CPUN	Up to 32 axes control, Operation cycle 0.88ms~	CE, UL
	Q172CPUN	Up to 8 axes control, Operation cycle 0.88ms~	CE, UL
Servo external signals interface module	Q172LX	Servo external signal input 32 points (FLS, RLS, STOP, DOG/CHANGE✕8)	CE, UL
Serial absolute synchronous encoder interface module	Q172EX	Serial absolute synchronous encoder MR-HENC interface✕2,Tracking input 2 points	CE, UL
Manual pulse generator interface module	Q173PX	Manual pulse generator MR-HDP01/synchronous encoder interface✕3, Tracking input 3 points	CE, UL
Serial absolute synchronous encoder	MR-HENC	Resolution: 16384PLS/rev, Permitted speed: 4300r/min	CE, UL
Serial absolute synchronous encoder cable	MR-JHSCBL□M-H, L	Serial absolute synchronous encoder ↔ Q172EX (When not using the tracking enable signal.)	–
Dividing unit	Q173DV	For dividing SSCNET lines of Q173CPUN (Attachment: Battery holder for IC-RAM memory backup)	–
Battery unit	Q170BAT	For IC-RAM memory backup of Motion CPU module	–
Battery	MR-BAT/A6BAT	For backup of serial absolute synchronous encoder, for backup of external battery of Motion CPU module	–
Manual pulse generator	MR-HDP01	Resolution: 25PLS/rev, Permitted speed: 200r/min, Open collector output	–
SSCNET cable	Q173HB△CBL□M (Note-1)	• Q173CPUN ↔ MR-H□BN	—
	Q173J2B△CBL□M (Note-1)	• Q173CPUN ↔ MR-J2□-B (Note-2)	
	Q173DVCBL□M	• Q173CPUN ↔ Q173DV	
	Q172HBCBL□M	• Q172CPUN ↔ MR-H□BN • MR-H□BN ↔ FR-V5NS (Note-3)	
	Q172HBCBL□M-B	• Q172CPUN ↔ MR-H□BN and Q170BAT	
	Q172J2BCBL□M	• Q172CPUN ↔ MR-J2□-B (Note-2) • MR-J2□-B (Note-2) ↔ FR-V5NS (Note-3) • Q173DV ↔ FR-V5NS (Note-3)	
	Q172J2BCBL□M-B	• Q172CPUN ↔ MR-J2□-B (Note-2) and Q170BAT	
	FR-V5NSCBL□	• Q172CPUN ↔ FR-V5NS (Note-3) • FR-V5NS(Note-3) ↔ FR-V5NS (Note-3)	
	MR-HBUS□M	• MR-H□BN ↔ MR-H□BN	
	MR-J2HBUS□M-A	• MR-H□BN ↔ MR-J2□-B (Note-2) • MR-H□BN ↔ Q173DV	
	MR-J2HBUS□M	• MR-J2□-B (Note-2) ↔ MR-J2□-B (Note-2) • MR-J2□-B (Note-2) ↔ Q173DV	
SSC I/F board	A30BD-PCF	ISA bus loading type, 2CH/board	–
SSC I/F card	A30CD-PCF	PCMCIA TYPE II, 1CH/card	–
SSC I/F board cable	Q170BDCBL□M	For A30BD-PCF 3m (9.84ft.), 5m (16.4ft.), 10m (32.8ft.)	–
SSC I/F card cable	Q170CDCBL□M	For A30CD-PCF 3m (9.84ft.), 5m (16.4ft.), 10m (32.8ft.)	–

Note: the SSCNET cable rows reference "Refer to the "SSCNET cable model" of next page for cable length and details."

(Note-1) △=Number of lines (none: 1 Line, 2: 2 Lines, 4: 4 Lines)
(Note-2) MR-J2□-B : MR-J2S-□B/MR-J2M-P8B/MR-J2-□B/MR-J2-03B5
(Note-3) SSCNET communication option for vector inverter FREQROL-V500 series (Coming soon!)

<PLC common equipments>

Part name	Model name	Description	Standards
PLC CPU module	Q00CPU	Program capacity 8k	CE, UL
	Q01CPU	Program capacity 14k	CE, UL
	Q02CPU	Program capacity 28k	CE, UL
	Q02HCPU	Program capacity 28k	CE, UL
	Q06HCPU	Program capacity 60k	CE, UL
	Q12HCPU	Program capacity 124k	CE, UL
	Q25HCPU	Program capacity 252k	CE, UL
CPU base unit	Q33B	Power supply + CPU + 3 slots I/O modules, For Q series module	CE, UL
	Q35B	Power supply + CPU + 5 slots I/O modules, For Q series module	CE, UL
	Q38B	Power supply + CPU + 8 slots I/O modules, For Q series module	CE, UL
	Q312B	Power supply + CPU + 12 slots I/O modules, For Q series module	CE, UL
Extension base unit	Q63B	Power supply + 3 slots I/O modules, For Q series module	CE, UL
	Q65B	Power supply + 5 slots I/O modules, For Q series module	CE, UL
	Q68B	Power supply + 8 slots I/O modules, For Q series module	CE, UL
	Q612B	Power supply + 12 slots I/O modules, For Q series module	CE, UL
Extension cable	QC□B	Length 0.45m(1.48ft.), 0.6m(1.97ft.), 1.2m(3.9ft.), 3m(9.8ft.), 5m(16.4ft.), 10m(32.8ft.)	–
Power supply module	Q61P-A1	100 to 120VAC input/5VDC 6A output	CE, UL
	Q61P-A2	200 to 240VAC input/5VDC 6A output	CE, UL
	Q63P	24VDC Input/5VDC 6A output	CE, UL
	Q64P	100 to 120VAC/200 to 240VAC input/5VDC 8.5A output	CE, UL