

# General technology standards of BJS Czech, Humpolec, Czech Republic

STANDARDIZED COMPONENTS		PRODUCER	TYPE / SERIES	REMARKS
CONTROL SYSTEM	CPU	SIEMENS	SIMATIC S7 type 300 or 400 (or safety var. F)	PROFINET communication protocol
	decentrla units	SIEMENS	SIMATIC ET 200 (if no active FESTO elements are used)	PROFINET communication protocol
		FESTO	MPA-s communication module + MPA pasive modules	PROFINET communication protocol
	operation pannels	SIEMENS	SIMATIC HMI - BASIC 2 <sup>nd</sup> gen. or COMFORT	PROFINET communication protocol
	visualisation software (at new installations at least one in developing version)	SIEMENS	SIMATIC WinCC v.13	PROFINET communication protocol
FREQUENCY INVERTORS	simple applications with no requirement on CPU cummunication	SIEMENS	SINAMICS V20	only for <u>no</u> CPU data exchange
	applications interlinked with CPU	SIEMENS	SINAMICS G120C incl. BOP-2 panel	PROFINET communication protocol
	applications with power recuperation (e.g. lifts)	SIEMENS	SINAMICS G120 or S120 + BOP-2 panel + recuperation	PROFINET communication protocol
	single axis servo applications (e.g. macinery set-up)	SIEMENS	SINAMICS S110	PROFINET communication protocol
	multiple axis servo applications (e.g. series of conveyors etc)	SIEMENS	SINAMICS S120	PROFINET communication protocol
MOTORS / GEARED MOTORS / SERVOS / LINEAR MOTORS	motors 370 W ÷ 550 W	SEW EURODRIVE	DRS	IE 1
	motors ≥750 W	SEW EURODRIVE	DRE	eficiency IE2, FU controlled thermal class F
	geared motor	SEW EURODRIVE		for humid application double sealed
	servo motors	SIEMENS	SIMOTICS S	gears on servo motors SEW EURODRIVE
	linear motors	SIEMENS	SIMOTICS L	
	** for standard application is required at least IP54, for application at humid environment IP65, at explosive environment at least ATEX 21			
	** all motors have to be equipped with local switch-off (e.g. EATON) locable with safety locker			
** motor breaks up to 3 kW 230V, over 3 kW 400V				
** ATEX geared motors with synthetic oil filling				
SENSORS	position sensors, rottaiion sensors	SICK		
	tehermocouples	JUMO		
	pressure sensors	Endress + Heuser		
	Vibration controls	Schenck		
SAFETY	safety controllers	Pilz / SIEMENS F series		
	safety relays	Pilz		
	optic safety gates, safety move snesors	SICK		
	protective fencing, fencing gates	DIRICKX Bohemia		
ACTORS	Pneumatic units	FESTO	MPA series, valves DSBC, DSBG, ADN, ADNGF	MPA-I or MPA-s comm. module on PROFINET
	Hadraulic units	BOSCH Rexroth		
CABINETS / CABLES	cable cabinets + upstand 100 mm H: 2.000, W: 800 (1.200), D: 500 mm	RITTAL		<b>ALL EXCEPTIONS FROM THESE STANDARD COMPONENTS MUST BE CONFIRMED BY BJS CZECH IN WRITTEN FORM</b>
	reserve in cabinets	min 20 %		
	cables	LAPPKABEL or HELUKABEL		
MECHANICAL	bearings	SKF / INA / FAG		
COLOURS	motors / geared motors / servo drives	RAL 7035	Light grey / Lichtgrau	
	cable cabinets / decentral cabinets / control cabinets	RAL 7035	Light grey / Lichtgrau	
	protective covers of movable parts, fencing and fencing gates	RAL 2010	Signal orange / Signalorange	
	hydraulic components	RAL 8023	Orange brown / Orangebraun	
	steel constructions, machinery covers	RAL 7035	Light grey / Lichtgrau	

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