Connector list Vector Control

22.10.01

Connector number	Connector name	Description	Double word
K0000	FixConn 0%	Fixed connector 0 In function diagram: 15.4, 290.2	no
K0001	FixConn 100%	Fixed connector 100 % In function diagram: 15.4, 290.2	no
KK0002	FixConn 200%	Fixed connector 200 % In function diagram: 15.4, 290.2	yes
K0003	FixConn -100%	Fixed connector -100% In function diagram: 15.4, 290.2	no
KK0004	FixConn -200%	Fixed connector -200% In function diagram: 15.4, 290.2	yes
K0005	FixConn 50%	Fixed connector 50% In function diagram: 290.2	no
K0006	FixConn 150%	Fixed connector 150% In function diagram 290.2	no
K0007	FixConn -50%	Fixed connector -50% In function diagram 290.2	no
K0008	FixConn -150%	Fixed connector -150% In function diagram: 290.2	no
K0011	AI1 Setpoint	Analog input 1 normalized in function diagram: 80.7	no
K0013	AI2 Setpoint	Analog input 2 normalized in function diagram: 80.7	no
K0015	AO1 ActV	Actual value analog output 1 (after smoothing, before scaling and offset) In function diagram: 80.3	no
K0016	AO2 ActV	Analog output 2 actual value (after smoothing, before scaling and offset) in function diagram: 81.2	no
KK0020	Speed smooth	Speed (smoothed) in function diagram: 350.7, 351.7, 352.7	yes
K0021	Output Volts	Output voltage (smoothed) in functin diagram: 285.3, 286.3	no
K0022	Output Amps	Output current component (smoothed) in function diagram: 285.8, 286.8	no
K0023	Output Power	Output power (smoothed) in function diagram: 285.8, 286.8	no
K0024	Motor Torque	Torque (smoothed) in function diagram: 285.8	no
K0025	DC Bus Volts	DC link voltage (smoothed) in function diagram: 285.3, 286.3	no
K0030	Control Word 1	Control word 1 in function diagram: 180.7	no
K0031	Control Word 2	Control word 2 (bits 16-31) in function diagram: 190.5	no
K0032	Status Word 1	Status word 1 in function diagram: 200.5	no
K0033	Status Word 2	Status word 2 (bits 16 to 31) in function diagram: 210.5	no
K0034	act. MotDataSet	Aktive motor data set in function diagram: 20.5, 540.1	no

Connector number	Connector name	Description	Double word
K0035	ActiveBICO DSet	Active BICO data set in function diagram: 20.5, 540.1	no
K0036	Active FuncDSet	Active function data set in function diagram: 20.5, 540.1	no
KK0040	Curr FixSetp	Connector with currently valid fixed setpoint (selectable by function data set and fixed setpoint bits) in function diagram: 290.6	yes
KK0041 ... KK0052	FixSetpoint	16 fixed setpoints of currently selected function data set in function diagram: 290.4	yes
KK0057	MOP (Input)	Input of motor-operated potentiometer in function diagram: 300.5	yes
KK0058	MOP (Output)	Output value of motor-operated potentiometer in function diagram: 300.8	yes
KK0067	Add Setpoint 1	Additional setpoint 1; is added to the main setpoint before the ramp-function generator in function diagram: 316.2	yes
KK0068	Add Setpoint 2	Additional setpoint 2: is added to the main setpoint behind the ramp-function generator in function diagram: 318.4	yes
KK0069	Main Setp.(act)	Main setpoint in function diagram: 316.2	yes
KK0070	n(set, sum1)	Setpoint after summation point 1 in function diagram: 316.4	yes
KK0071	n(set, spd sel)	Setpoint after summation point 2 in function diagram: 316.6	yes
KK0072	n(set, RgenIn)	Setpoint at ramp-function generator input in function diagram: 317.2	yes
KK0073	n(set, RgenOut)	Setpoint at ramp-function generator output in function diagram: 317.7	yes
KK0074	n(set,sum2)	Setpoint after summation point 3 in function diagram: 318.4	yes
KK0075	n/f (set)	Setpoint after limitation to n/f(max) pos/neg direction of rotation in function diagram: 318.7, 320.7	yes
K0077	T(Accel)	Pre-control torque (inertia compensation) in function diagram: 320.5	no
KK0078	n/f(max,FWDSpd)	Speed setpoint limitation in positive direction of rotation in function diagram: 316.6	yes
KK0079	n/f(max,REVSpd)	Speed setpoint limitation in negative sense of rotation in function diagram: 316.6	yes
K0080	T(Setpoint)	Torque setpoint for slave drive in function diagram: 320.3	no
K0081	Fix Torque 1	Maximum value of the upper torque limit in function diagram: 320.4	no
K0082	Max Torque 1	Upper torque limit in function diagram: 319.6, 320.7	no
K0083	Fix Torque 2	Maximum value of the lower torque limit in function diagram: 320.4	no
K0084	Max Torque 2	Upper torque limit in function diagram: 319.6, 320.7	no
K0085	I FixAddSet	Additional current setpoint in function diagram: 319.6, 320.7	no

Connector number	Connector name	Description	Double word
K0086	Torq FixAddSet	Additional torque setpoint in function diagram: 319.6, 320.3	no
K0087	Torq Add Fsetp	Fixed setpoint for additional torque setpoint in function diagram: 319.2, 320.1	no
K0088	I Add Fsetp	Deviation of the position of the external encoder from the zero position as defined by the zero pulse If an external encoder is used for motor position measurement (P0182=104), the position-feedback scaling factor and the resolution of the motor encoder apply. Otherwise, the position-feedback scaling factor and the resolution of the external encoder are used. In function diagram: FP242	no
K0090	Rotor angle	Mechanical angle in function diagrams: 230.6, 240.6, 250.7, 260.6, 500.3 The actual position variable KK0090 shows a mechanical rotor position without regarding the adjusted angle offset in P132.	no
KK0091	Meas´dRot.Speed	Actual speed in function diagram: 250.7	yes
K0092	Flux angle diff	Flux angle difference	no
K0093	Load angle	Load angle in function diagram: 384.6	no
KK0094	SBP SetpCh1	First output connector for the setpoint encoder normalized with P140.1 (P139=2xxx) or P141.1 (P139=1xxx). in function diagram: 256.8	yes
KK0095	SBP SetpCh2	Second output connector of setpoint encoder normalized with P140.2 (P139=2xxx) or P141.2 (P139=1xxx). in function diagram: 256.8	yes
KK0120	Pos. angle	Position actual value of motor encoder in linear units In function diagram: 330.8	yes
KK0148	n/f(act)	Speed/frequency actual value in function diagram: 350.7, 351.7, 352.7	yes
KK0149	n/f(FWD Ctrl)	Unsmoothed n/f actual value of the precontrol in function diagram: 351.6	yes
KK0150	n/f(set)	Smoothed speed setpoint prior to setpoint/actual value comparison of speed controller In function diagram: 360.4	yes
KK0151	n/f(act,smo´d)	Smoothed speed actual value prior to setpoint/actual value comparison of speed controller In function diagram: 360.4	yes
KK0152	n/f Deviation	Setpoint/actual value deviation at speed controller input in function diagram: 360.5	yes
K0153	T(set, n/f Reg)	Speed controller output in function diagram: 360.8	no
K0154	n/f (Reg,P)	P component of speed controller in function diagram: 360.8	no
K0155	n/f(Reg,I-Port)	I component of speed controller In function diagram: 360.8	no

Connector number	Connector name	Description	Double word
K0156	n/fRegGain(act)	Current gain for the speed controller	no
KK0157	n/f(Droop)	Speed difference from droop In function diagram: 360.3	yes
KK0158	n/f(Band-Stop)	Speed actual value after filtering through band-stop in function diagram: 360.3	yes
K0159	Output DT1 Elem	Output of the DT1 function on speed controller in function diagram: 360.4	no
K0161	Mmax1 (reg,act)	Upper torque limit at the speed controller output in function diagram: 360.8, 362.8	no
K0162	Mmax2 (reg,act)	Lower torque llimit at the speed controller outpu in function diagram: 360.8, 362.8	no
K0163	M(set,friction)	Output connector friction torque in function diagram: 370.7 to 373.7, 375.7	no
K0164	T(set,precon)	Additional torque switched-in at the output of the n/f controller in function diagram: 365.8, 367.5	no
K0165	Torq(set,limit)	Output connector torque limitation In function diagram: 370.4	no
K0167	Isq(set,limitr)	Setpoint torque forming current ccomponent after torque and current limitation in function diagram: 370.7	no
K0168	Isq(set,active)	Setpoint torque forming current component from torque limitation to current controller In function diagram: 370.8, 390.3	no
K0170	Torq(limit1,set	Output of fixed setpoint for Torq(limit,1) in function diagram: 370.1	no
K0171	Torq(limit2,set	Output of fixed setpoint for Torq(limit, 2) in function diagram: 370.1	no
K0172	Torq(limit1,act	Upper torque limit of speed limitation controller in function diagram: 370.2	no
K0173	Torq(limit2,act	Lower torque limit of speed limitation controller in function diagram: 370.2	no
K0175	I(max,perm)	Currently valid value of maximum current in function diagram: 370.5	no
K0176	Isq(max, abs)	Amount of torque forming current component to which limitation takes place in current limitation. The maximum current and the magnetizing current are included in calculation. In function diagram: 370.6	no
K0177	Isd(static)	Flux-generating component of the current setpoint (steady-state portion) in function diagram: 380.7, 381.7	no
K0178	I(Set,smoothed)	Smoothed current setpoint at low frequencies at no-load of motor in function diagram: 382.7	no
K0179	Isd(set)	Setpoint of flux-generating current component in function diagram: 380.8, 381.8	no
K0180	Psi(set)	Fixed setpoint for setpoint flux in function diagram: 390.1	no
K0181	Psi(act)	Actual value of flux calculated from the flux model in function diagram: 390.7	no
K0182	Isd(act)	Actual value of flux forming current component in function diagram: 390.4	no

Connector number	Connector name	Description	Double word
K0183	Isd(set,active)	Setpoint flux forming current (from flux controller) In function diagram: 390.4	no
K0184	Isq(act)	Actual value of torque forming current component in function diagram: 390.4	no
KK0188	Slip Frequency	Slip speed in function diagram: 390.7	yes
K0189	U(set,abs)	Setpoint voltage amount from current controller. Phase-to-phase voltage, rms value of the fundamental. The voltage applied to the motor is reduced by the valve voltage. In function diagram: 390.7	no
K0190	Mod Depth Limit	Modulation limit in function diagram: 405.8	no
K0191	Max OutputVolts	Maximum possible output voltage in function diagram: 405.8, 380.3, 381.3	no
KK0192	FieldWeakFrq-ac	Actual frequency at which field weakening starts, takes into account the available voltage reserves in function diagram: 380.4, 381.4, 384.2	yes
K0193	Flux(Curve)	Flux setpoint at output of flux characteristic in function diagram: 380.4, 381.4	no
K0194	Flux(LoadDepnd)	Flux setpoint of the load-dependent flux characteristic in function diagram: 380.5, 381.5	no
K0195	Flux(set,smth)	Smoothed flux setpoint in function diagram: 380.6, 381.6	no
K0196	Flux(FieldWkReg	Output of the field-weakening controller in function diagram: 380.6, 381.6	no
K0197	Flux(set,totl)	Resulting flux setpoint of vector control in function diagram: 380.7, 381.7. 384.2	no
KK0199	f(set,stator)	Stator frequency setpoint in function diagram: 384.2, 395.8, 396.8	yes
KK0200	f(set,gating)	Setpoint frequency v/f characteristic in function diagram: 400.5	yes
K0203	Boost	Voltage boost for v/f characteristic. in function diagram: 400.4	no
K0204	U(set,V/f)	Setpoint voltage for v/f characteristic in function diagram: 400.7	no
K0205	A(set,V/f)	Setpoint modulation depth, v/f characteristic in function diagram: 400.8	no
KK0208	I max-Reg.(Out)	Output I(max) controller for v/f characteristic. in function diagram: 400.3	yes
K0209	Imax-Reg(Outp)	Output voltage of the I(max) controller for reducing the setpoint voltage of the drive	no
K0210	Iexc(set)	Setpoint of the excitation current (only separately excited synchronous machine) 8000h = 4*Ierr,n in function diagram: 384.7	no
K0211	Iexc(act)	Actual value of the excitation current (only separately excited synchronous machine) 8000h = 4*Ierr,n in function diagram: 384.6	no
K0212	Diexc(sd)	Dynamic component of excitation current in function diagram: 384.2	no

Connector number	Connector name	Description	Double word
K0213	Iμp(I Mod Reg)	Magnetizing current in the d axis of the I model in function diagram: 384.3	no
K0214	Iμd(I Mod Reg)	Integral component of magnetizing current in the d axis of the I model in function diagram: 384.3	no
K0215	Iμd(set,I-mod.)	Setpoint of the magnetizing current in the d axis of the I model in function diagram: 384.3	no
K0216	Iμq(set,I-mod.)	Setpoint of the magnetization current in the q axis of the I model in function diagram: 384.3	no
K0217	Vmax(Isd-Reg.)	Maximum output voltage of the Isd controller in function diagram: 390.5	no
K0218	Vsd(Isd-Reg.)	Output voltage of the Isd controller in function diagram: 390.4	no
K0219	Vsq(Isd-Reg.,i)	Integral component of output voltage of the Isd controller in function diagram: 390.5	no
K0220	Vsq(Isq-Reg.)	Output voltage of the Isq controller in function diagram: 390.4	no
K0221	Vsq(Isq-Reg.,i)	Integral component of output voltage of the Isq controller in function diagram: 390.4	no
K0222	Modulation Dept	Amount of modulation depth in function diagram: 390.8, 420.7	no
K0227	dIsd(set,PReg)	Dynamic component of Isd setpoint in function diagram: 384.7	no
K0228	Vsd(Decoupl)	Vsd at output of decoupling network in function diagram: 390.4	no
K0229	Alpha(set)	Setpoint of angle Alpha in function diagram: 390.7	no
K0230	cEMFRegGain(act	Actual value of EMF controller scaling in function diagram: 395.4, 396.4	no
K0231	cEMF model outp	Component of EMF in the d axis in function diagram: 395.3, 396.3	no
KK0232	fmax(cEMF Reg)	Maximum frequency of the EMF controller in function diagram: 395.6, 396.6	yes
KK0233	f(cEMF Reg,p)	Output frequency of the EMF controller (P component) in function diagram: 395.6, 396.8	yes
KK0234	f(cEMF Reg,i)	Output frequency of EMF controller (I component) in function diagram: 395.6, 393.8	yes
KK0235	f(Reson Damp)	Output frequency of resonance damping in function diagram: 396.5	yes
K0236	DCBusVolt(smo´d	Smoothed DC link bus voltage actual value in function diagram: 386.3	no
K0238	Phase 1 Amps	Momentary value of the converter output curren in Phase U in function plan: 280.4, 286.2	no
K0239	Phase 3 Amps	Momentary value of converter output current in phase W in function diagram: 280.4, 286.2	no
K0240	DC BusVolts act	DC link voltage in function diagram: 500.8	no

Connector number	Connector name	Description	Double word
K0241	Torque(act)	Torque actual value In function diagram 360.2	no
K0242	OutputAmps(rms9	Fundamental frequency rms value of output current in function diagram: 285.5, 286.5	no
K0244	Motor Utilizat.	Thermal motor utilization (calculated value)	no
K0245	MotTemp	Motor temperature with connected KTY sensor Normalization: 256°C = 4000Hex in function diagram: 491.4	no
K0246	Drive Utiliz	Drive utilization (output of the i2t calculation). in function diagram: 490.3	no
K0247	DriveTemperat.	Maximum value of measured converter temperatures	no
K0248	CalcTimeHdroom	Free calculating time. In function diagram: 490.7	no
K0249	Drive Status	Current converter status In function diagram: 20.3, 520.8	no
K0250	Flt/Warn #	Connector for current alarm number and curren fault number. Upper byte: fault number Lower byte: alarm number. The value 0 means that no alarm or fault is present. Attention: The alarm number and the fault number are not updated at the same time as the fault or warning bit in the status word; they are staggered a few sampling periods. In function diagram: 510.3	no
K0252 Compact PLUS only	MotTemp (SBP)	The motor temperature is provided from an external source (SBP board). P131 defines the type of temperature sensor. P131 = 0 if KTY or PTC sensor connected. P131 = 3 if PT100 sensor connected. The temperature is to be displayed normalized as 4000Hex = 100% (100%=256°C). The connector wiring is defined using P385 "Src Motor Temp". in function diagram: 280.4	no
KK0270	f(KIB/VdmaxReg)	Output of the KIB/Vdmax controller for v/f control. Affects the frequency setpoint.	yes
K0271	I(KIB/VdmaxReg)	Output of the KIB/Vdmax controller for vector control. Affects the torque-generating current component.	no
KK0275 not Compact PLUS	Sync TargFreq	Measured target frequency during synchronizing. Maximum value is 8 times the rated motor frequency (P107) in function diagram: X02.3, 316.4	yes
K0276 not Compact PLUS	Sync PhaseDiff	Connector actual phase shift between phase U of the synchronizing converter and measured synchronizing signal of the target voltage system. Analog output: 100% at 90.0°el in function diagram: X02.3	no
KK0277 not Compact PLUS	df (SyncReg)	Output frequency of the synchronizing controller in function diagram: X02.8, 318.3	yes
K0401	FIXSETP K U001	FB: 1st fixed setpoint 16-bit In function diagram: 705.2	no

Connector number	Connector name	Description	Double word
K0402	FIXSETP K U002	FB 2nd fixed setpoint 16-bit in function diagram: 705.2	no
K0403	FIXSETP K U003	FB. 3rd fixed setpoint 16-bit in function diagram: 705.2	no
K0404	FIXSETP K U004	FB: 4th fixed setpoint 16-bit in function diagram: 705.2	no
K0405	FIXSETP K U005	FB: 5th fixed setpoint 16-bit in function diagram: 705.2	no
K0406	FIXSETP K U006	FB: 6th fixed setpoint 16-bit in function diagram: 705.2	no
K0407	FIXSETP K U007	FB: 7th fixed setpoint 16-bit in function diagram: 705.2	no
K0408	FIXSETP K U008	FB: 8th fixed setpoint 16-bit in function diagram: 705.2	no
K0409	FIXSETP K U009	FB: 9th fixed sestpoint 16-bit (unsigned). in function diagram: 705.2	no
KK0411	FIXSETP KK U011	FB: 1st fixed setpoint 32-bit. in function diagram: 705.3	yes
KK0412	FIXSETP KK U012	FB: 2nd fixed setpoint 32-bit in function diagram: 705.3	yes
KK0413	FIXSETP KK U013	FB: 3rd fixed setpoint 32-bit in function diagram: 705.3	yes
KK0414	FIXSETP KK U014	FB: 4th fixed setpoint 32-bit in function diagram: 705.3	yes
KK0415	FIXSETP KK U015	FB: 5th fixed setpoint 32-bit in function diagram: 705.3	yes
KK0416	FIXSETP KK U016	FB: 6th fixed setpoint 32-bit in function diagram: 705.3	yes
KK0417	FIXSETP KK U017	FB: 7th fixed setpoint 32-bit in function diagram: 705.3	yes
KK0418	FIXSETP KK U018	FB: 8th fixed setpoint 32-bit in function diagramm: 705.3	yes
KK0420 ... KK0422	K-> KK CONV	3 outputs of the K -> KK converter in function diagram: 710.7	yes
K0423 ... K0428	KK-> K CONV	6 outputs of the KK -> K converter. in function diagram: 710.7	no
K0431	B ® K CONV U076	Output of the 1st binector -> connector. in function diagram: 720.4	no
K0432	B ® K CONV U078	Output of the 2nd binector -> connector. in function diagram 720.4	no
K0433	B ® K CONV U080	Output of the 3rd binector -> connector in function diagram: 720.8	no
K0434 ... K0441	AdrCon	Service connectors, only for Siemens service personnel	no
K0442	ADD K 0.83	Output of the 1st 16-bit adder. in function diagram: 725.2	no
K0443	ADD K 1.01	Output of the 2nd 16-bit adder in function diagram: 725.2	no
K0444	ADD K 1.42	Output of the 3rd 16-bit adder in function diagram: 725.3	no
K0445	ADD K 2.20	Output of the 4th 16-bit adder. in function diagram: 725.3	no
K0446	ADD 4K 1.57	Output of the 16t-bit adder with 4 inputs. in function diagram: 725.5	no

Connector number	Connector name	Description	Double word
K0447	SUB K 1.02	Output of the 1st 16-bit subtracter. in function diagram: 725.2	no
K0448	SUB K 1.58	Output of the 2nd 16-bit subtracter in function diagram: 725.2	no
K0449	SUB K 2.06	Output of the 3rd 16-bit subtracter in function diagram: 725.3	no
KK0450	ADD KK 1.15	Output of the 1st 32-bit adder. in function diagram: 725.2	yes
KK0451	ADD KK 1.29	Output of the 2nd 32-bit adder in function diagram: 725.2	yes
KK0452	ADD KK 2.05	Output of the 3rd 32-bit adder in function diagram: 725.3	yes
KK0453	ADD KK 2.21	Output of the 4th 32-bit adder in function diagram: 725.3	yes
KK0454	SUB KK 1.16	Output of the 1st 32-bit subtracter. in function diagram: 725.2	yes
KK0455	SUB KK 2.35	Output of the 2nd 32-bit subtracter in function diagram: 725.2	yes
K0456	MOD ADD K 1.72	Output of the 16-bit adder modulo. in function diagram: 725.8	no
KK0457	MOD ADD KK 1.91	Output of the 32-bit adder modulo in function diagram: 725.8	yes
K0458	VZ INV K 0.84	Output of the 1st 16-bit inverter. in function diagram: 725.5	no
K0459	VZ INV K 1.17	Output of the 2nd 16-bit inverter in function diagram: 725.5	no
K0460	VZ INV K 2.36	Output of the 3rd 16-bit inverter in function diagram: 725.5	no
KK0461	VZ INV KK 1.03	Output of the 1st 32-bit inverter. in function diagram: 725.5	yes
KK0462	VZ INV KK 2.22	Output of the 2nd 32-bit inverter in function daigram: 725.5	yes
K0463	SVZ INV K 1.30	Output of the 16-bit switchable inverter in function diagram: 725.8	no
KK0465	SVZ INV KK 1.90	Output of the 32-bit switchable inverter. in function diagram: 725.8	yes
K0467	MUL K 1.04	Output of the 1st 16-bit multiplier in function diagram: 730.2	no
K0468	MUL K 1.59	Output of the 2nd 16-bit multiplier in function diagram: 730.2	no
K0469	MUL K 2.37	Output of the 3rd 16-bit multiplier in function diagram: 730.2	no
KK0470	MUL KK 1.31	Output of the 32-bit multiplier in function diagram: 730.2	yes
K0471	DIV K 1.05	Output of the 1st 16-bit divider in function diagram: 730.4	no
K0472	DIV K 2.23	Output of the 2nd 16-bit divider in function diagram: 730.4	no
KK0473	DIV KK 1.43	Output of the 1st 32-bit divider in function diagram: 730.4	yes
KK0474 ... KK0478	ConnToPar Value	Return value for connector-to-parameter converter in function diagram: 798.8	yes

Connector number	Connector name	Description	Double word
K0479	ConnToPar ParNo	First parameter number for connector-to-parameter conversion. The connector supplies internally all possible parameter numbers if the respective index is softwired and externally only the parameter number of the first index is shown. In function diagram: 798.3	no
K0480	ConnToPar Index	First index number for connector-to-parameter conversion. The connector supplies internally all possible index numbers if the respective index is softwired and externally only the index number of the first index is shown. In function diagram 798.3	no
K0481	MULDIV K 1.06	Output of the 1st 16-bit multiplier/divider in function diagram: 730.8	no
KK0482	MULDIV KK 1.06	Output of the 1st multiplier/divider (32-bit intermediate result) in function diagram: 730.8	yes
K0483	MULDIV K 1.32	Output of the 2nd 16-bit multiplier/divider in function diagram: 730.8	no
KK0484	MULDIV KK 1.32	Output of the 2nd multiplier/divider (32-bit intermediate result) in function diagram: 730.8	yes
K0485	MULDIV K 1.73	Output of the 3rd 16-bit multiplier/divider in function diagram: 730.8	no
KK0486	MULDIV KK 1.73	Output of the 3rd multiplier/divider (32-bit intermediate result) in function diagram: 730.8	yes
K0490	B->K CONV U057	Output of 4th binector -> connector converter Function diagram: 720.8	no
K0491	ABSVGEN K 0.75	Output of the 1st 16-bit absolute-value generato in function daigram: 735.3	no
K0492	ABSVGEN K 2,47	Output of the 2nd 16-bit absolute-value generator in function diagram: 735.3	no
K0493	ABSVGEN K 2.67	Output of the 3rd 16-bit absolute-value generato in function diagram: 735.3	no
KK0494	ABSVGEN KK 2.07	Output of the 1st 32-bit absolute-value generato in function diagram: 735.3	yes
K0501 ... K0503	LIMITR K 1.74	1st 16-bit limiter in function diagram: 735.7	no
K0504 ... K0506	LIMITR K 2.38	2nd 16-bit limiter in function diagram: 735.7	no
KK0507 ... KK0509	LIMITR KK 2.48	1st 32-bit limiter in function diagram: 735.7	yes
K0511 ... K0512	LMTMON K 1.18	1st limit-value monitor, 16-bit: fixed setpoint and output, smooothing element in function diagram: 740.2	no
K0513 ... K0514	LMTMON K 2.49	2nd limit-value monitor, 16-bit: fixed setpoint and output, smoothing element in function diagram: 740.2	no
KK0515 ... KK0516	LMTMON KK 2.68	3rd limit-value monitor, 32-bit: fixed setpoint and output, smoothing element in function diagram: 740.6	yes
KK0517	LMTMON KK 1.75	4th limit-value monitor, 32-bit: fixed setpoint in function diagram: 740.6	yes

Connector number	Connector name	Description	Double word
K0521	SWITCH K 0.85	1st 16-bit analog switch in function diagram: 750.2	no
K0522	SWITCH K 1.19	2nd 16-bit analog switch in function diagram: 750.2	no
K0523	SWITCH K 1.21	3rd 16-bit analog switch in function diagram: 750.2	no
K0524	SWITCH K 1.60	4th 16-bit analog switch in function diagram: 750.4	no
K0525	SWITCH K 1.76	5th 16-bit analog switch in function diagram: 750.4	no
KK0526	SWITCH KK 0.86	1st 32-bit analog switch in function diagram: 750.2	yes
KK0527	SWITCH KK 0.87	2nd 32-bit analog switch in function diagram: 750.2	yes
KK0528	SWITCH KK 1.20	3rd 32-bit analog switch in function diagram: 750.2	yes
KK0529	SWITCH KK 1.77	4th 32-bit analog switch in function diagram: 750.4	yes
KK0530	SWITCH KK 2.08	5th 32-bit analog switch in function diagram: 750.4	yes
KK0531 ... KK0538	DEMUX KK 0.62	8 outputs of the 32-bit 8-fold demultiplexer in function diagram: 750.7	yes
KK0539	OutpMultiplex 1	Output of the 32-bit 8-fold multiplexer In function diagram: 750.7	yes
K0541	CURVE K 1.07	1st 16-bit characteristic curve in function diagram: 755.3	no
K0542	CURVE K 1.33	2nd 16-bit characteristic curve in function diagram: 755.5	no
K0543	CURVE K 2.09	3rd 16-bit characteristic curve in function diagram: 755.8	no
K0544	DEADZONE K 0.88	Dead zone output 1 in function diagram: 755.5	no
KK0545	MAX KK 2.24	Output maximum selection 32-bit in function diagram: 760.2	yes
KK0546	MIN KK 2.25	Output minimum selection 32-bit in function diagram: 760.2	yes
KK0551	TRA/STOR KK 0.7	1st 32-bit tracking/storage element in function diagram: 760.5	yes
KK0552	TRA/STOR KK 2.6	2nd 32-bit tracking/storage element in function diagram: 760.8	yes
KK0553	STORE KK 0.77	1st 32-bit analog memory in function diagram: 760.5	yes
KK0554	STORE KK 2.50	2nd 32-bit analog memory in function diagram: 760.8	yes
K0561	COUNT MIN K U31	Fixed setpoint minimum 16-bit counter in function diagram: 785.2	no
K0562	COUNT MAX K U31	Fixed setpoint maximum 16-bit counter in function diagram: 785.2	no
K0563	COUNT SET K U31	Fixed setpoint setting value 16-bit counter in function diagram: 785.2	no
K0564	COUNT STA K U31	Fixed setpoint starting value 16-bit counter in function diagram: 785.2	no
K0565	COUNTER K 1.38	Output of the 16-bit counter in function diagram: 785.7	no

Connector number	Connector name	Description	Double word
KK0570	ComfRGen Input	Input of the comfort ramp-function generator in function diagram: 790.3	yes
KK0571	ComfRGen Output	Output of the comfort ramp-function generator in function diagram: 790.8	yes
KK0572	ComfRGen dy/dt	dy/dt of the comfort ramp-function generator in function diagram: 790.8	yes
KK0573	ComfRGen PosDir	Upper limit value of the comfort ramp-function generator In function diagram: 790.7	yes
KK0574	ComfRGen NegDir	Lower limit value of the comfort ramp-function generator. In function diagram: 790.7	yes
K0577	SimpRGen Output	Output of the simple ramp-function generator in function diagram: 791.5	no
K0580	TeCntr Set/ActV	Setpoint/actual value deviation of the technolog controller with controller type "PID controller". With controller type "PI controller with D portion in the actual value channel", the negated actual value is displayed. in function diagram: 792.3	no
K0581	TeCntr Input	Input of the technology controller in function diagram: 792.5	no
K0582	TeCntr D-Comp	D component of the technology controller in function diagram: 792.4	no
K0583	TeCntr P-Comp	P component of the technology controller in function diagram: 792.6	no
K0584	TeCntr I-Comp	I component of the technology controller in function diagram: 792.6	no
K0585	TeCntr CntrOut	Technology controller output before output limitation in function diagram: 792.6	no
K0586	TeCntr UpperLim	Fixed setpoint for the upper limitation of the technology controller in function diagram: 792.4	no
K0587	TeCntr LowerLim	Inverted value of the upper limitation of the technology controller in function diagram: 792.4	no
K0588	TeCntr Output	Output of the technology controller after output limitation in function diagram: 792.8	no
K0590	WobbleSignal	Output signal of wobble generator in function diagram: 795.8	no
K0591	Setp, Wobbled	Wobbled setpoint in function diagram: 795.8	no
KK0592 ... KK0599	TraceValueOutp	Output connector for the trace values in function diagram: 797.6	yes
KK0600	AnaDelayEl 1 KK	Analog output value of the 1st analog delay element in function diagram: 734.6	yes
KK0601	AnaDelayEl 2 KK	Analog output value of the 2nd analog delay element in function diagram: 734.8	yes
KK0602	MulDiv KK 1.12	32-bit result of the 1st high-resolution multiplier/divider in function diagram: 732.2	yes
KK0603	I32 KK 1.53	32-bit output value of the 1st integrator in function diagram: 734.4	yes

Connector number	Connector name	Description	Double word
KK0604	I32 KK 1.85	32-bit output value of the 2nd integrator in function diagram: 734.8	yes
KK0605	PT1GI KK 2.31	32-bit output value of the 1st PT1 element in function diagram: 734.6	yes
KK0606	PT1GI KK 2.43	32-bit output value of the 2nd PT1 element in function diagram: 734.8	yes
KK0607	D Elem KK 2.32	32-bit output of the 1st D element in function diagram: 734.3	yes
K0611	Integr32_1 Ti	16-bit fixed connector output for integral-time constant of the 1st 32-bit integrator. In function diagram: 734.2	no
K0612	Integr32_2 Ti	16-bit fixed connector output for integral-time constant of the 2nd 32-bit integrator. In function diagram: 734.6	no
K0613	PulseGen_1 Tp	16-bit fixed connector output for period off the 1st pulse generator in function diagram: 782.2	no
KK0616	PAmpl.32_1 KK	32-bit result of the 1st P amplifier/multiplier (2-word) in function diagram: 732.2	yes
KK0617	PAmpf.32_2 KK	32-bit result of the 2nd P amplifier/multiplier (2-word) in function diagram: 732.2	yes
KK0618	Shift32_1 KK	32-bit result of the 1st shift multiplier/divider in function diagram: 732.5	yes
KK0619	Shift32_2 KK	32-bit result of the 2nd shift multiplier/divider in function diagram: 732.5	yes
KK0620	Shift32_3 KK	32-bit result of the 3rd shift multiplier/divider in function diagram: 732.8	yes
KK0621	Shift32_4 KK	32-bit result of the 4th shift multiplier/divider in function diagram: 732.8	yes
KK0640 ... KK0643	SH 1.68 KK	Double word connectors of first S&H board	yes
K0644 ... K0651	SH 1.68 K	Connectors of first S&H element	no
K0650	Short Run Time	Time for the short run calculation in sampling increments of the setpoint channel (absolute value connector)	no
KK0652 ... KK0655	SH 1.69 KK	Double word connectors of second S&H board	yes
K0656 ... K0663	SH 1.69 K	Connectors of second S&H element	no
KK0664 ... KK0667	SH 1.70 KK	Double word connectors of third S&H board	yes
K0668 ... K0675	SH 1.70 K	Connectors of third S&H element	no
K0900	T(act, Tech)	Torque (smoothed) in normalization 1000H=T_Ref (P354) for applications with T100/T300	no
K0901	V(set, Tech)	Output voltage (smoothed) in normalization 1000H = U_Ref (P351) for applications with T100/T300	no
K0902	I(Outp, Tech)	Output current (smoothed) in normalization 1000H = I_Ref (P350) for applications with T100/T300	no
K0903	DCBus(act,Tech)	DC link bus voltage (smoothed) in normalization 1000H = U_Ref (P351) for applications with T100/T300	no

Connector number	Connector name	Description	Double word
K0904	I(max.permTech)	Currently applicable value of maximum current in normalization 1000H = I_Ref (P350) for applications with T100/T300	no
K0905	Isq(act, Tech)	Actual value of the torque-generating current in normalization 1000H = I_ref (P350) for applications with T100/T300	no
K0906	Isq(smth,Tech)	Setpoint of the torque-generating current in normalization 1000H = I_Ref for applications with T100/T300	no
K2001 ... K2016	SCom1 Word	Received process data from SCom1 (16-bit)	no
KK2031 ... KK2045	SCom1 DWord	Received process data from SCom1 (32-bit)	yes
K3001 ... K3016	CB/TB Word	Received process data from CB/TB In function diagram: 120.5	no
KK3031 ... KK3045	CB/TB DWord	Received process data from CB/TB In function diagram: 120.6	yes
K4101 ... K4103 not Compact PLUS	SCI Sl.1 AnaIn	SCI1 Analog inputs Slave 1 In function diagram: Z20.7	no
K4201 ... K4203 not Compact PLUS	SCI Sl.2 AnaIn	SCI slave 2 Analog inputs In function diagram: Z21.8	no
K4501 ... K4516 not Compact PLUS	SCB Word	SCB 16-bit setpoints In function diagram: Z01.6, Z05.6	no
KK4531 ... KK4545 not Compact PLUS	SCB DWord	SCB 32-bit setpoints In function diagram: Z05.7	yes
K5101	1st EB1 AnaIn1	Analog input 1 of the first inserted EB1 In function diagram: Y01.8	no
K5102	1st EB1 AnaIn2	Analog input 2 of the first inserted EB1 In function diagram: Y01.8	no
K5103	1st EB1 AnaIn3	Analog input 3 of the first inserted EB1 In function diagram: Y01.8	no
K5104	1st EB1 AnaOut1	Setpoint, analog ouptut 1 of the first inserted EB1 In function diagram: Y02.5	no
K5105	1st EB1 AnaOut2	Setpoint, analog output 2 of the first inserted EB1 In function diagram: Y02.5	no
K5106	1EB1stat.DI/DO	Display of status of the terminals (status of digital inputs/outputs) of the first inserted EB1 In function diagram: Y03.2	no
K5111	AnaIn 1st EB2	Analog input of the first inserted EB2 In function diagram: Y07.8	no
K5112	AnaIn 1st EB2	Setpoint, analog output of the first inserted EB2 In function diagram: Y07.5	no
K5113	Stat.DI/DO 1EB2	Display of status of the terminals (status of digital inputs/outputs) of the first inserted EB2 In function diagram: Y07.3	no
K5201	2nd EB1 AnaIn1	Analog input 1 of the second inserted EB1 In function diagram: Y04.8	no
K5202	2nd EB1 AnaIn2	Analog input 2 of the second inserted EB1 In function diagram: Y04.8	no
K5203	2nd EB1 AnaIn3	Analog input 3 of the second inserted EB1 In function diagram: Y04.8	no
K5204	2nd EB1 AnaOut1	Setpoint, analog output 1 of the second inserted EB2 In function diagram: Y05.5	no

Connector number	Connector name	Description	Double word
K5205	2nd EB1 AnaOut2	Setpoint, analog output 2 of the second inserted EB1 In function diagram: Y05.5	no
K5206	2EB1stat.DI/DO	Display of status of the terminals (status of digital inputs/outputs) of the second inserted EB1 In function diagram: Y06.2	no
K5211	AnaIn 2nd EB2	Analog input of the second inserted EB2 In function diagram: Y08.8	no
K5212	AnaIn 2nd EB2	Setpoint, analog output of the second inserted EB2 In function diagram: Y08.5	no
K5213	Stat.DI/DO 2EB2	Display of status of the terminals (status of digital inputs/outputs) of the second inserted EB2 In function diagram: Y08.3	no
K6001 ... K6016	SCom2 Word	Interface SCom2	no
KK6031 ... KK6045	SCom2 DWord	Interface 2	yes
K7001 ... K7016	SLB Word	Setpoints SIMOLINK	no
KK7031 ... KK7045	SLB DWord	Setpoints SIMOLINK	yes
K7081	Ind.Sync-Tgr	Number of error-free synchronization telegrams corresponding to P748.1 In function diagram 140.8	no
K7082	Ind.CRC Error	Number of CRC errors, corresponding to P748.2 in function diagram 140.8	no
K7083	Ind.Timeout	Number of timeout errors, corresponding to P748.3 in function diagram 140.8	no
K7085	NodeAddrTimeout	Address of the node that sends the "Time out" special telegram, corresponding to P748.5 in function diagram 140.8	no
K7101 ... K7108	SIMOLINK SpecD	Special data from SIMOLINK	no
KK7131 ... KK7137	SIMOLINK SpecD	Special data from SIMOLINK	yes
K8001 ... K8016	2 CB Word	Setpoints for 2nd CB In function diagram: 130.5	no
KK8031 ... KK8045	2 CB DWord	Additional CB double-words In function diagram: 130.6	yes