



**SIEMENS**

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# Industrial Control Products

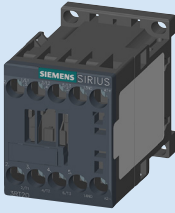
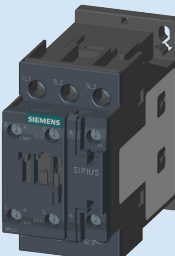

SIRIUS Shortform Catalogue 2019

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SIRIUS Innovations Industrial Controls						
Example	Size	Setting range (A)	Power (kW)	Rated current (A)	Part Number	Price
Motor Starter Protectors for motor protection, class 10, screw-type connection						
	Size S00	0,45...0,63 A	0,18 kW	0,63 A	3RV2011-0GA10	40.36
		0,7...1,00 A	0,25 kW	1,00 A	3RV2011-0JA10	42.95
		0,9...1,25 A	0,37 kW	1,25 A	3RV2011-0KA10	45.47
		1,1...1,6 A	0,55 kW	1,60 A	3RV2011-1AA10	45.47
		1,4...2 A	0,75 kW	2,00 A	3RV2011-1BA10	47.46
		2,2...3,2 A	1,1 kW	3,20 A	3RV2011-1DA10	47.46
		2,8...4 A	1,5 kW	4,00 A	3RV2011-1EA10	47.46
		3,5...5A	1,5 kW	5,00 A	3RV2011-1FA10	47.46
		4,5...6,3 A	2,2 kW	6,30 A	3RV2011-1GA10	47.46
		5,5...8 A	3,0 kW	8,00 A	3RV2011-1HA10	47.46
		7...10 A	4,0 kW	10,0 A	3RV2011-1JA10	53.22
		9...12,5 A	5,5 kW	12,5 A	3RV2011-1KA10	53.22
		10...16 A	7,5 kW	16,0 A	3RV2011-4AA10	55.34
	Size S0	5.5...8 A	3,0 kW	8,0 A	3RV2021-1HA10	49.51
		7...10 A	4,0 kW	10,0 A	3RV2021-1JA10	55.34
		9...12,5 A	4,5 kW	12,5 A	3RV2021-1KA10	55.34
		13...20 A	7,5 kW	20,0 A	3RV2021-4BA10	57.66
		18...25 A	11 kW	25,0 A	3RV2021-4DA10	70.26
		27...32 A	15 kW	32,0 A	3RV2021-4EA10	88.82
		30...36 A	18,5 kW	36,0 A	3RV2021-4PA10	106.05
	Size S2	32...40 A	18,5 kW	40,0 A	3RV2031-4UA10	147.99
		35...45 A	22 kW	45,0 A	3RV2031-4VA10	163.00
		42...52 A	22 kW	52,0 A	3RV2031-4WA10	166.41
		49...59 A	30 kW	59,0 A	3RV2031-4XA10	167.77
		54...65 A	30 kW	65,0 A	3RV2031-4JA10	167.77
		62...73 A	37 kW	73,0 A	3RV2031-4KA10	188.23
		70...80 A	37 kW	80,0 A	3RV2031-4RA10	201.19
	Size S3	28...40 A	18.5 kW	40,0 A	3RV2041-4FA10	174.32
		36...50 A	22 kW	50,0 A	3RV2041-4HA10	174.32
		45...63 A	30 kW	63,0 A	3RV2041-4JA10	174.32
		57...75 A	37 kW	75,0 A	3RV2041-4KA10	194.86
		65...84 A	45 kW	84,0 A	3RV2041-4RA10	207.46
		75...93 A	45 kW	93,0 A	3RV2041-4YA10	207.46
		80...100 A	45,55 kW	100,0 A	3RV2041-4MA10	229.33
Example	Description				Part Number	Price
Accessories motor starter protector 3RV2						
  	Transverse auxiliary switch, 1NO+1NC (S00, S0, S3)				3RV2901-1E	7.29
	Lateral auxiliary switch, 1NO+1NC (S00, S0, S3)				3RV2901-1A	7.29
	3-Phase infeed terminal, connection from above, S00, S0				3RV2925-5AB	7.56
	3-Phase infeed terminal, connection from above, S2				3RV2935-5A	13.65
	3-Phase busbars, S00, S0 for 2 switches				3RV1915-1AB	7.29
	3-Phase busbars, S00, S0 for 3 switches				3RV1915-1BB	8.95
	3-Phase busbars, S00, S0 for 4 switches				3RV1915-1CB	9.81
	3-Phase busbars, S00, S0 for 5 switches				3RV1915-1DB	11.07
	3-Phase busbars, S2 for 2 switches				3RV1935-1A	13.79
	3-Phase busbars, S2 for 3 switches				3RV1935-1B	17.03
	3-Phase busbars, S2 for 4 switches				3RV1935-1C	20.02

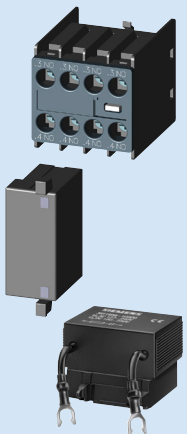
Example	Size	Rated control supply voltage (V)	AC3 400V	AC1 690V	Auxiliary contacts	Part Number * 1 = NO Aux, 2 = NC Aux	Price
<b>Contactors for switching motors</b>							
	Size S00 3 kW	24V AC, 50/60 HZ	7	18	1NO/1NC	3RT2015-1AB0*	21.67
		110V AC, 50/60 HZ	7	18	1NO/1NC	3RT2015-1AF0*	21.67
		230V AC, 50/60 HZ	7	18	1NO/1NC	3RT2015-1AP0*	21.67
		24V DC	7	18	1NO/1NC	3RT2015-1BB4*	25.45
	Size S00 4 kW	24V AC, 50/60 HZ	9	22	1NO/1NC	3RT2016-1AB0*	23.26
		110V AC, 50/60 HZ	9	22	1NO/1NC	3RT2016-1AF0*	23.26
		230V AC, 50/60 HZ	9	22	1NO/1NC	3RT2016-1AP0*	23.26
		24V DC	9	22	1NO/1NC	3RT2016-1BB4*	27.17
	Size S00 5.5 kW	24V AC, 50/60 HZ	12	22	1NO/1NC	3RT2017-1AB0*	28.63
		110V AC, 50/60 HZ	12	22	1NO/1NC	3RT2017-1AF0*	28.63
		230V AC, 50/60 HZ	12	22	1NO/1NC	3RT2017-1AP0*	28.63
		24V DC	12	22	1NO/1NC	3RT2017-1BB4*	33.01
	Size S00 7.5 kW	24V AC, 50/60 HZ	16	22	1NO/1NC	3RT2018-1AB0*	36.39
		110V AC, 50/60 HZ	16	22	1NO/1NC	3RT2018-1AF0*	36.39
		230V AC, 50/60 HZ	16	22	1NO/1NC	3RT2018-1AP0*	36.39
		24V DC	16	22	1NO/1NC	3RT2018-1BB4*	58.46
	Size S0 7.5 kW	24V AC, 50 HZ	17	40	1NO+1NC	3RT2025-1AB00	40.10
		110V AC, 50 HZ	17	40	1NO+1NC	3RT2025-1AF00	40.10
		230V AC, 50 HZ	17	40	1NO+1NC	3RT2025-1AP00	40.10
		24V DC	17	40	1NO+1NC	3RT2025-1BB40	72.25
	Size S0 11 kW	24V AC, 50 HZ	25	40	1NO+1NC	3RT2026-1AB00	53.36
		110V AC, 50HZ	25	40	1NO+1NC	3RT2026-1AF00	53.36
		230V AC, 50HZ	25	40	1NO+1NC	3RT2026-1AP00	53.36
		24V DC	25	40	1NO+1NC	3RT2026-1BB40	84.84
	Size S0 15 kW	24V AC, 50 HZ	32	50	1NO+1NC	3RT2027-1AB00	77.55
		110V AC, 50 HZ	32	50	1NO+1NC	3RT2027-1AF00	77.55
		230 V AC, 50 Hz	32	50	1NO+1NC	3RT2027-1AP00	77.55
		24 V DC	32	50	1NO+1NC	3RT2027-1BB40	115.99
	Size S0 18.5 kW	24V AC, 50 HZ	38	50	1NO+1NC	3RT2028-1AB00	86.16
		110V AC, 50 HZ	38	50	1NO+1NC	3RT2028-1AF00	86.16
		230 V AC, 50 Hz	38	50	1NO+1NC	3RT2028-1AP00	86.16
		24 V DC	38	50	1NO+1NC	3RT2028-1BB40	126.59
	Size S2 18.5 kW	110V AC, 50 HZ	40	60	1NO+1NC	3RT2035-1AF00	93.43
		230 V AC, 50 Hz	40	60	1NO+1NC	3RT2035-1AP00	93.43
		20 ... 33V AC/DC	40	60	1NO+1NC	3RT2035-1NB30	142.54
	Size S2 22 kW	110V AC, 50 HZ	50	70	1NO+1NC	3RT2036-1AF00	118.67
		230 V AC, 50 Hz	50	70	1NO+1NC	3RT2036-1AP00	118.67
		20 ... 33V AC/DC	50	70	1NO+1NC	3RT2036-1NB30	184.82
	Size S2 30 kW	110V AC, 50 HZ	65	80	1NO+1NC	3RT2037-1AF00	167.09
		230 V AC, 50 Hz	65	80	1NO+1NC	3RT2037-1AP00	167.09
		20 ... 33V AC/DC	65	80	1NO+1NC	3RT2037-1NB30	253.02
	Size S2 37 kW	110V AC, 50 HZ	80	90	1NO+1NC	3RT2038-1AF00	186.19
		230 V AC, 50 Hz	80	90	1NO+1NC	3RT2038-1AP00	186.19
		20 ... 33V AC/DC	80	90	1NO+1NC	3RT2038-1NB30	265.98




Example	Size	Rated control supply voltage (V)	AC3 400V	AC1 690V	Auxiliary contacts	Part Number * 1 = NO Aux, 2 = NC Aux	Price
Contactors for switching motors							
	Size S3 37 kW	110V AC, 50Hz	80	125	1NO/1NC	3RT2045-1AF00	195.53
		230V AC, 50Hz	80	125	1NO/1NC	3RT2045-1AP00	195.53
		20 ... 33V AC/DC	80	125	1NO/1NC	3RT2045-1NB30	273.07
	Size S3 45 kW	110V AC, 50Hz	95	130	1NO/1NC	3RT2046-1AF00	244.57
		230V AC, 50Hz	95	130	1NO/1NC	3RT2046-1AP00	244.57
		20 ... 33V AC/DC	95	130	1NO/1NC	3RT2046-1NB30	318.14
	Size S3 55 kW	110V AC, 50Hz	110	130	1NO/1NC	3RT2047-1AF00	283.68
		230V AC, 50Hz	110	130	1NO/1NC	3RT2047-1AP00	283.68
		20 ... 33V AC/DC	110	130	1NO/1NC	3RT2047-1NB30	330.07
	Size S6 55 kW	110...127 V AC/DC 50/60Hz	115	160	2NO/2NC	3RT1054-1AF36	332.73
		220...240 V AC/DC 50/60Hz	115	160	2NO/2NC	3RT1054-1AP36	332.73
		23...26 V AC/DC 50/60Hz	115	160	2NO/2NC	3RT1054-1AB36	332.73
	Size S6 75 kW	110...127 V AC/DC 50/60Hz	150	185	2NO/2NC	3RT1055-6AF36	406.96
		220...240 V AC/DC 50/60Hz	150	185	2NO/2NC	3RT1055-6AP36	406.96
		23...26 V AC/DC 50/60Hz	150	185	2NO/2NC	3RT1055-6AB36	406.96
	Size S6 90 kW	110...127 V AC/DC 50/60Hz	185	215	2NO/2NC	3RT1056-6AF36	511.68
		220...240 V AC/DC 50/60Hz	185	215	2NO/2NC	3RT1056-6AP36	511.68
		23...26 V AC/DC 50/60Hz	185	215	2NO/2NC	3RT1056-6AB36	511.68
	Size S10 110 kW	110...127 V AC/DC 50/60Hz	225	275	2NO/2NC	3RT1064-6AF36	577.30
		220...240 V AC/DC 50/60Hz	225	275	2NO/2NC	3RT1064-6AP36	577.30
		23...26 V AC/DC 50/60Hz	225	275	2NO/2NC	3RT1064-6AB36	577.30
	Size S10 132 kW	110...127 V AC/DC 50/60Hz	265	330	2NO/2NC	3RT1065-6AF36	815.24
		220...240 V AC/DC 50/60Hz	265	330	2NO/2NC	3RT1065-6AP36	815.24
		23...26 V AC/DC 50/60Hz	265	330	2NO/2NC	3RT1065-6AB36	815.24
	Size S10 160 kW	110...127 V AC/DC 50/60Hz	300	330	2NO/2NC	3RT1066-6AF36	987.57
		220...240 V AC/DC 50/60Hz	300	330	2NO/2NC	3RT1066-6AP36	987.57
		23...26 V AC/DC 50/60Hz	300	330	2NO/2NC	3RT1066-6AB36	987.57
	Size S12 200 kW	110...127 V AC/DC 50/60Hz	400	430	2NO/2NC	3RT1075-6AF36	1232.81
		220...240 V AC/DC 50/60Hz	400	430	2NO/2NC	3RT1075-6AP36	1232.81
		23...26 V AC/DC 50/60Hz	400	430	2NO/2NC	3RT1075-6AB36	1232.81
	Size S12 250 kW	110...127 V AC/DC 50/60Hz	500	610	2NO/2NC	3RT1076-6AF36	1776.30
		220...240 V AC/DC 50/60Hz	500	610	2NO/2NC	3RT1076-6AP36	1776.30
		23...26 V AC/DC 50/60Hz	500	610	2NO/2NC	3RT1076-6AB36	1776.30
Contactor relays S00							
	Contactor relay 4NO, 230 V, 50/60 Hz					3RH2140-1AP00	21.95
	Contactor relay 4NO, 24 V DC					3RH2140-1BB40	25.37
	Contactor relay 3NO + 1NC, 230 V, 50/60 Hz					3RH2131-1AP00	21.95
	Contactor relay 3NO + 1NC, 24 V DC					3RH2131-1BB40	25.37
	Contactor relay 2NO + 2NC, 230 V, 50/60 Hz					3RH2122-1AP00	21.95
	Contactor relay 2NO + 2NC, 24 V DC					3RH2122-1BB40	25.37

3RV29 Infeed System					
Example	Type	Version	For 3RV20 motor starter protectors Size	Part Number	Price
Three-phase busbars with infeed					
	3-phase busbars with infeed incl. 3RV2917-6A end cover	For 2 motor starter protectors with screw connection or spring-type terminals			
		• With infeed on the left	S00, S0	3RV2917-1A	15.44
		• With infeed on the right	S00, S0	3RV2917-1E	15.44
Three-phase busbars for system expansion					
	3-phase busbars incl. 3RV2917-5BA00 expansion plug	For motor starter protectors with screw connection or spring-type terminals			
		• For 2 motor starter protectors S00, S0	S00, S0	3RV2917-4A	9.41
		• For 3 motor starter protectors S00, S0	S00, S0	3RV2917-4B	12.39
Plug-in connectors					
	Plug-in connectors to make contact with the motor starter protectors	• For spring-type terminals		Spring-type terminals	
		- Single-unit packaging	S001) S02)	3RV2917-5AA00 3RV2927-5AA00	2.70 2.70
		- Multi-unit packaging (10 units)	S001) S02)	3RV2917-5A 3RV2927-5A	2.70 2.70
		• For screw terminals		Screw terminals	
		- Single-unit packaging	S001) S02)	3RV2917-5CA00 3RV1927-5AA00	2.70 2.70
		- Multi-unit packaging (10 units)	S001) S02)	3RV2917-5C 3RV1927-5A	2.70 2.70
Contactor bases					
	Contactor bases for mounting direct-on-line or reversing starters	Single-unit packaging	S00 S0	3RV2917-7AA00 3RV2927-7AA00	2.29 2.13
Link modules					
Example	Actuating voltage of contactor	Size		Part Number	Price
		Contactors (3RT2)	Motor starter protectors (3RV2)		
	AC / DC	S00	S00 / S0	3RA1921-1D	4.03
	AC	S0	S00 / S0	3RA2921-1A	4.54
	DC	S0	S00 / S0	3RA2921-1B	4.54
	AC / DC	S2	S2	3RA2931-1A	10.56
	AC / DC	S3	S3	3RA1941-1A	11.10
SIRIUS Innovations Industrial Controls					
Example	Description			Part Number	Price
Accessories overload relays					
	Terminal supports for stand-alone installation, Size S00			3RU2916-3AA01	7.56
	Terminal supports for stand-alone installation, Size S0			3RU2926-3AA01	9.08
	Terminal supports for stand-alone installation, Size S2			3RU2936-3AA01	12.33
	Terminal supports for stand-alone installation, Size S3			3RU2946-3AA01	15.97





## Accessories contactors, contactor relays

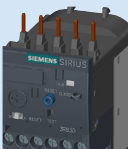



	Auxiliary switch block, 4NO, size S00, S0 and S2	3RH2911-1FA40	9.58
	Auxiliary switch block 2NO+2NC, size S00, S0 and S2	3RH2911-1HA22	9.58
	Auxiliary switch block, 1NO+1NC, size S00, S0 and S2	3RH2911-1HA11	5.71
	Auxiliary switch block, 2NO, size S00, S0 and S2	3RH2911-1HA20	5.71
	Auxiliary switch block, 4NO, size S6, S10 and S12	3RH1921-1FA22	8.73
	RC element AC 127...240 V size S00	3RT2916-1CD00	5.71
	Suppression diode DC 24 V, size S00	3RT2916-1DG00	5.71
	Surge suppressor size S00 (AC 24...48 V; DC 24...70 V)	3RT2916-1BB00	5.71
	RC element AC 127...240 V, size S0	3RT2926-1CD00	8.84
	Surge suppressor, size S0 (AC 24...48 V; DC 24...70 V)	3RT2926-1BB00	7.00
	RC element AC 127...240 V size S2	3RT2936-1CD00	9.77
	Surge suppression, size S2 and S3 (AC 24...48 V)	3RT2936-1BB00	7.06
	RC element AC 127...240 V size S3	3RT2946-1CD00	8.96
	Surge suppression, size S2 and S3 (AC 48...127 V)	3RT2936-1BC00	7.31
	RC element (AC 24...48 V; DC 24...70 V) size S6 to S12	3RT1956-1CD00	19.88

## Components for customer assembly of reversing and star-delta starters

	3RT201 S00-S00 The reversing assembly kit contains: Mechanical interlock, 2 connecting clips for 2 contactors, wiring modules on the top and bottom • For main, auxiliary and control circuits	3RA2816-0EW20	102.07
	3RT202 S0-S0 The reversing assembly kit contains: Mechanical interlock, 2 connecting clips for 2 contactors, wiring modules on the top and bottom • For main, auxiliary and control circuits1) • Only for main circuit2)	3RA2923-2AA1	13.57
	3RT203 S2-S2 The reversing assembly kit contains: 2 connecting pins for 2 contactors; wiring modules on the top and bottom • For main and auxiliary circuits • Only for main circuit3)	3RA2933-2AA1	14.80
	3RT201 S00-S00-S00 The star-delta assembly kit contains: Mechanical interlock, 4 connecting clips for 3 contactors; a star jumper, wiring modules on the top and bottom • For main, auxiliary and control circuits	3RA2913-2BB1	7.06
	3RT202 S0-S0-S0 The star-delta assembly kit contains: Mechanical interlock, 4 connecting clips for 3 contactors, a star jumper, wiring modules on the top and bottom • For main, auxiliary and control circuits • Only for main circuit2)	3RA2923-2BB1	15.23
	3RT203 S2-S2-S2 The star-delta assembly kit contains: 4 connecting pins for 3 contactors; an S2 star jumper and • wiring modules on the top and bottom for the main circuit and the auxiliary circuit, a cable for connecting the A2 coil contact from the line contactor to the A2 coil contact of the delta contactor. • Wiring modules on the top and bottom for the main circuit, a cable set for the auxiliary circuit and a cable for connecting the A2 coil contact from the line contactor to the A2 coil contact of the delta contactor.	3RA2933-2BB1	22.23
	3RT204 S3-S3 The reversing contact assembly kit contains: 2 connecting pins for 2 contactors; wiring modules on the top and bottom • For connecting the main and auxiliary current circuits, • Electrical interlock included (NC contact interlock)	3RA2943-2AA1	30.46
	3RT105 S6-S6 The reversing contact assembly kit contains: Wiring modules on the top and bottom (for connection without box terminal)	3RA1953-2M	101.15
	3RT106 S10-S10 The reversing contact assembly kit contains: Wiring modules on the top and bottom (for connection without box terminal)	3RA1963-2A	217.33
	3RT107 S12-S12 The reversing contact assembly kit contains: Wiring modules on the top and bottom (for connection without box terminal)	3RA1973-2A	283.80
	3RT204 S3-S3-S3 The star-delta starter assembly contains; 4 connectors for 3 contactors, an S3 star jumper, a cable for connecting the A2 coil contact from the line contactor to the A2 coil contact of the delta contactor and Wiring modules on the top and bottom for the main circuit and the auxiliary circuit Wiring modules on the top and bottom for the main circuit, a cable set for the auxiliary circuit	3RA2943-2BB1	21.73
	3RT105 S6-S6-S6 The star-delta starter assembly contains; Star jumper, wiring module on the bottom (Wiring module on the top is not included in the scope of supply. A double infeed between the line contactor and the delta contactor is recommended)	3RA1953-2B	210.39
	3RT106 S10-S10-S10 The star-delta starter assembly contains; Star jumper, wiring module on the bottom (Wiring module on the top is not included in the scope of supply. A double infeed between the line contactor and the delta contactor is recommended)	3RA1963-2B	138.14
	3RT107 S12-S12-S12 The star-delta starter assembly contains; Star jumper, wiring module on the bottom (Wiring module on the top is not included in the scope of supply. A double infeed between the line contactor and the delta contactor is recommended)	3RA1973-2B	171.09







Example	Size	Setting range (A)	Part Number	Price
<b>Overload relay (thermal) for mounting onto contactors, Class 10</b>				
	Size S00	0,45 ... 0,63 A	3RU2116-0GB0	28.82
		0,7 ... 1 A	3RU2116-0JB0	28.82
		0,9 ... 1,25 A	3RU2116-0KB0	28.82
		1,1 ... 1,6 A	3RU2116-1AB0	28.82
		1,4 ... 2 A	3RU2116-1BB0	28.82
		2,2 ... 3,2 A	3RU2116-1DB0	28.82
		2,8 ... 4 A	3RU2116-1EB0	28.82
		4,5 ... 6,3 A	3RU2116-1GB0	28.82
		5,5 ... 8 A	3RU2116-1HB0	28.82
		7 ... 10 A	3RU2116-1JB0	28.82
		9 ... 12,5 A	3RU2116-1KB0	28.82
		11 ... 16 A	3RU2116-4AB0	28.82
	Size S0	14 ... 20 A	3RU2126-4BB0	34.15
		20 ... 25 A	3RU2126-4DB0	34.15
		27 ... 32 A	3RU2126-4EB0	52.63
		34 ... 40 A	3RU2126-4FB0	52.63
	Size S2	28 ... 40 A	3RU2136-4FB0	56.17
		36 ... 45 A	3RU2136-4GB0	64.03
		40 ... 50 A	3RU2136-4HB0	76.95
		47 ... 57 A	3RU2136-4QB0	76.95
		54 ... 65 A	3RU2136-4JB0	76.95
		62 ... 73 A	3RU2136-4KB0	76.95
		70 ... 80 A	3RU2136-4RB0	88.19
	Size S3	28... 40 A	3RU2146-4FB0	83.51
		36... 50 A	3RU2146-4HB0	90.80
		45... 63 A	3RU2146-4JB0	90.80
		57... 75 A	3RU2146-4KB0	94.78
		70... 90 A	3RU2146-4LB0	108.70
		80... 100 A	3RU2146-4MB0	140.51

<b>Overload relay (electronic) for mounting onto contactors, Class 10E</b>				
	Size S00	0,32 ... 1,25 A	3RB3016-1NB0	50.97
		1 ... 4 A	3RB3016-1PB0	50.97
		3 ... 12 A	3RB3016-1SB0	50.97
		4 ... 16 A	3RB3016-1TB0	50.97
	Size S0	3 ... 12 A	3RB3026-1SB0	58.26
		10 ... 40 A	3RB3026-1VB0	85.50
	Size S2	12 ... 50 A	3RB3036-1UB0	94.78
		20 ... 80 A	3RB3036-1WB0	123.28
	Size S3	12.5 ... 50 A	3RB3046-1UB0	105.39
		32 ... 115 A	3RB3046-1XB0	146.48



**SIRIUS 3RW Softstarter**


Example	Rated operating voltage	Ambient temperature 40 °C		Size	Part Number	Price	
		Rated opera- ting current in (A)	Rated power of three-phase motors with rated operating voltage				
			230 V in (kW)				400 V in (kW)

**Softstarters for easy start-up conditions and high switching frequencies**

Example						Part Number AC/DC 24 V	Part Number AC/DC 110 ... 230 V	Price AC/DC 24 V	Price AC/DC 110 ... 230 V
	200 ... 480 V Screw-type terminals	3,6	0,75	1,5	S00	3RW3013-1BB04	3RW3013-1BB14	105.93	105.93
		6,5	1,5	3	S00	3RW3014-1BB04	3RW3014-1BB14	119.90	119.90
		9	2,2	4	S00	3RW3016-1BB04	3RW3016-1BB14	132.21	132.21
		12,5	3	5,5	S00	3RW3017-1BB04	3RW3017-1BB14	149.46	149.46
		17.6	4	7,5	S00	3RW3018-1BB04	3RW3018-1BB14	170.81	170.81
		25	5,5	11	S0	3RW3026-1BB04	3RW3026-1BB14	199.55	199.55
		32	7,5	15	S0	3RW3027-1BB04	3RW3027-1BB14	232.40	232.40
		38	11	18,5	S0	3RW3028-1BB04	3RW3028-1BB14	287.42	287.42
		45	11	22	S2	3RW3036-1BB04	3RW3036-1BB14	353.94	353.94
		63	18,5	30	S2	3RW3037-1BB04	3RW3037-1BB14	430.31	430.31
		72	22	37	S2	3RW3038-1BB04	3RW3038-1BB14	509.14	509.14
		80	22	45	S3	3RW3046-1BB04	3RW3046-1BB14	585.52	585.52
		106	30	55	S3	3RW3047-1BB04	3RW3047-1BB14	653.68	653.68

**Softstarters for 3-phase motors (with current limiting and integrated overload relay)**

Example						Part Number AC/DC 24 V	Part Number AC/DC 110 ... 230 V	Price AC/DC 24 V	Price AC/DC 110 ... 230 V
	200-480 V Screw-type terminals	12,5	3	5,5	S0	3RW4024-1BB04	3RW4024-1BB14	221.72	221.72
		25	5,5	11	S0	3RW4026-1BB04	3RW4026-1BB14	261.14	261.14
		32	7,5	15	S0	3RW4027-1BB04	3RW4027-1BB14	310.41	310.41
		38	11	18,5	S0	3RW4028-1BB04	3RW4028-1BB14	372.00	372.00
		45	11	22	S2	3RW4036-1BB04	3RW4036-1BB14	442.63	442.63
		63	18,5	30	S2	3RW4037-1BB04	3RW4037-1BB14	525.57	525.57
		72	22	37	S2	3RW4038-1BB04	3RW4038-1BB14	610.15	610.15
		80	22	45	S3	3RW4046-1BB04	3RW4046-1BB14	686.52	686.52
		106	30	55	S3	3RW4047-1BB04	3RW4047-1BB14	748.93	748.93
	200-480 V Screw-type terminals	134	37	75	S6		3RW4055-6BB44		793.28
		162	45	90	S6		3RW4056-6BB44		993.65
		230	75	132	S12		3RW4073-6BB44		1100.41

SIRIUS 3RP25 Time Relay in 17,5 and 22,5 mm industrial enclosure							
Example	Contacts	Width in mm	Rated control supply voltage	Time range	Functions	Part Number	Price
Multifunction time relays							
	1 W / 1 CO	17,5	AC/DC 12 – 240 V	0,05 s – 100 h	13	3RP2505-1AW30	84.18
	2 W / 2 CO	22,5	AC/DC 12 – 240 V	0,05 s – 100 h	27	3RP2505-1BW30	104.72
On-delay time relays							
	1 W / 1 CO	17,5	AC/DC 12 – 240 V	0,5 s – 10 s	On-delay	3RP2511-1AW30	40.50
	1 W / 1 CO	17,5	AC/DC 12 – 240 V	1 s – 30 s		3RP2512-1AW30	40.50
	1 W / 1 CO	17,5	AC/DC 12 – 240 V	5 s – 100 s		3RP2513-1AW30	40.50
	1 W / 1 CO	17,5	AC/DC 12 – 240 V	0,05 s – 100 h		3RP2525-1AW30	52.43
	2 W / 2 CO	22,5	AC/DC 12 – 240 V	0,05 s – 100 h		3RP2525-1BW30	76.88
Off-delay time relays with control signal							
	1 W / 1 CO	17,5	AC/DC 12 – 240 V	0,05 s – 100 h	Off-delay	3RP2535-1AW30	70.26
Off-delay time relays without control signal							
	1 W / 1 CO	22,5	AC/DC 12 – 240 V	0,05 s – 600 s	Off-delay	3RP2540-1AW30	97.43
	2 W / 2 CO	22,5	AC/DC 12 – 240 V	0,05 s – 600 s		3RP2540-1BW30	113.34
Star-delta function							
	2 S / 2 NO	22,5	AC/DC 12 – 240 V	1 s – 20 s	Star-delta	3RP2574-1NW30	52.43
	2 S / 2 NO	22,5	AC/DC 12 – 240 V	3 s – 60 s		3RP2576-1NW30	52.43

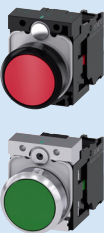


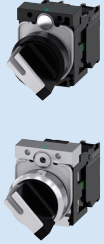



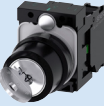

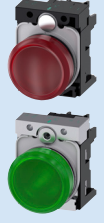
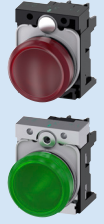
CO change-over contact

All products are available with spring-loaded terminals.

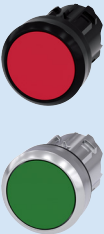




Example	Screw-type	3RP2505-1AW30
	Spring-type	3RP2505-2AW30










SIRIUS 3SK1 Safety Relays							
Example	Description	Adjustable off-delay time	Rated control supply voltage	Enable circuits	Signaling circuits	Part Number	Price
						Screw-type terminals	Screw-type terminals
Standard basic units, 22.5 mm							
	with relay outputs	–	AC/DC 24 V	3	1	3SK1111-1AB30	104.33
		–	AC/DC 110 – 240 V	3	1	3SK1111-1AW20	104.33
	with semicon- ductor outputs	–	DC 24 V	2	1	3SK1112-1BB40	82.95
Advanced basic units, 22.5 mm							
	with relay output	–	DC 24 V	3	1	3SK1121-1AB40	132.56
		0,05 – 3 s	DC 24 V	2/2tv	–	3SK1121-1CB41	165.91
		0,5 – 30 s	DC 24 V	2/2tv	–	3SK1121-1CB42	165.91
	with semicon- ductor outputs	–	DC 24 V	3	1	3SK1122-1AB40	99.63
		0,5 – 30 s	DC 24 V	2/2tv	–	3SK1122-1CB42	99.63
Input expansion module, 17.5 mm							
	Sensoren Sensor expansion mod- ules for safety-ori- ented expansion of the advanced basic units by adding an additional 2-channel sensor or two 1-channel sensors	–	DC 24 V	–	–	3SK1220-1AB40	79.53
Output expansion module 4RO 22.5 mm							
	with relay outputs	–	DC 24 V	4	1	3SK1211-1BB40	96.21
Device connectors for saving wiring for advanced basic units, input or output expansion modules							
	Device connector 17.5 mm	–	–	–	–	3ZY1212-1BA00	9.71
	Device connector 22.5 mm	–	–	–	–	3ZY1212-2BA00	9.71
	Device terminating connectors 22.5 mm	–	–	–	–	3ZY1212-2DA00	10.43

SIRIUS ACT (complete units)						
Example	Description	Contacts	Part Number		Price	
			Plastic	Metal	Plastic Price	Metal Price
	Pushbutton with flat button	● 1NO	3SU1100-0AB10-1BA0	3SU1150-0AB10-1BA0	7.96	9.16
		● 1NC	3SU1100-0AB20-1CA0	3SU1150-0AB20-1CA0	7.96	9.16
		● 1NO	3SU1100-0AB40-1BA0	3SU1150-0AB40-1BA0	7.96	9.16
		● 1NO	3SU1100-0AB50-1BA0	3SU1150-0AB50-1BA0	7.96	9.16
	Illuminated pushbutton with flat button AC/DC 24	● 1NO	3SU1102-0AB40-1BA0	3SU1152-0AB40-1BA0	14.28	15.10
		○ 1NO	3SU1102-0AB60-1BA0	3SU1152-0AB60-1BA0	14.28	15.10
		○ 1NO	3SU1102-0AB70-1BA0	3SU1152-0AB70-1BA0	14.28	15.10
	EMERGENCY-STOP devices with holder and yellow name plate, Ø 80 mm, with inscription	● 1NC	3SU1100-1HB20-1CG0	3SU1150-1HB20-1FG0	18.45	24.71
	Selector switches	 1NO; latching	3SU1100-2BF60-1BA0	3SU1150-2BF60-1BA0	11.63	16.12
		 1NO, 1NO; latching	3SU1100-2BL60-1NA0	3SU1150-2BL60-1NA0	15.04	18.20
		 1NO, 1NO; momentary contact type	3SU1100-2BM60-1NA0	3SU1150-2BM60-1NA0	15.04	18.20
	Key-operated switches with holder, 2 switch positions (RONIS)	 1NO; latching	3SU1100-4BF11-1BA0	3SU1150-4BF11-1BA0	21.87	23.64
SIRIUS ACT (complete units)						
Example	Description		Part Number		Price	
			Plastic	Metal	Plastic Price	Metal Price
	Indicator lights with smooth lens, with integrated LED AC/DC 24 V	●	3SU1102-6AA20-1AA0	3SU1152-6AA20-1AA0	9.04	9.67
		●	3SU1102-6AA40-1AA0	3SU1152-6AA40-1AA0	9.04	9.67
		○	3SU1102-6AA60-1AA0	3SU1152-6AA60-1AA0	9.04	9.67
	Indicator lights with smooth lens, with integrated LED AC 230 V	●	3SU1106-6AA20-1AA0	3SU1156-6AA20-1AA0	13.02	13.65
		●	3SU1106-6AA40-1AA0	3SU1156-6AA40-1AA0	13.02	13.65
		○	3SU1106-6AA60-1AA0	3SU1156-6AA60-1AA0	13.02	13.65

**SIRIUS ACT (actuators and indicators)**  
Please order the holder separately

Example	Description	Part Number (without holder)		Price	
		Plastic	Metal	Plastic	Metal
	Pushbutton with flat button, momentary contact type, without release	● 3SU1000-0AB10-0AA0	3SU1050-0AB10-0AA0	3.31	4.25
		● 3SU1000-0AB20-0AA0	3SU1050-0AB20-0AA0	3.31	4.25
		● 3SU1000-0AB40-0AA0	3SU1050-0AB40-0AA0	3.31	4.25
		● 3SU1000-0AB50-0AA0	3SU1050-0AB50-0AA0	3.31	4.25
		○ 3SU1000-0AB60-0AA0	3SU1050-0AB60-0AA0	3.31	4.25
		○ 3SU1000-0AB70-0AA0	3SU1050-0AB70-0AA0	3.31	4.25
	Pushbuttons with flat button, latching, with rotate-to-unlatch mechanism		3SU1000-0AA10-0AA0	3SU1050-0AA10-0AA0	7.65 8.66
	Illuminated pushbutton, momentary contact type	● 3SU1001-0AB20-0AA0	3SU1051-0AB20-0AA0	4.53	5.12
		● 3SU1001-0AB30-0AA0	3SU1051-0AB30-0AA0	4.53	5.12
		● 3SU1001-0AB40-0AA0	3SU1051-0AB40-0AA0	4.53	5.12
		● 3SU1001-0AB50-0AA0	3SU1051-0AB50-0AA0	4.53	5.12
		○ 3SU1001-0AB60-0AA0	3SU1051-0AB60-0AA0	4.53	5.12
		○ 3SU1001-0AB70-0AA0	3SU1051-0AB70-0AA0	4.53	5.12
	Indicator lights with smooth lens	● 3SU1001-6AA20-0AA0	3SU1051-6AA20-0AA0	2.64	3.07
		● 3SU1001-6AA30-0AA0	3SU1051-6AA30-0AA0	2.64	3.07
		● 3SU1001-6AA40-0AA0	3SU1051-6AA40-0AA0	2.64	3.07
		● 3SU1001-6AA50-0AA0	3SU1051-6AA50-0AA0	2.64	3.07
		○ 3SU1001-6AA60-0AA0	3SU1051-6AA60-0AA0	2.64	3.07
		○ 3SU1001-6AA70-0AA0	3SU1051-6AA70-0AA0	2.64	3.07
	Twin pushbuttons with indicator light, momentary contact type		3SU1001-3AB42-0AK0	3SU1051-3AB42-0AK0	7.77 10.87

**Selector switches**

	2 switch positions, latching (90°)		3SU1002-2BF60-0AA0	3SU1052-2BF60-0AA0	7.08	7.84
	2 switch positions, momentary contact type (45°)		3SU1002-2BC60-0AA0	3SU1052-2BC60-0AA0	7.08	7.84
	3 switch positions, latching (2x45°)		3SU1002-2BL60-0AA0	3SU1052-2BL60-0AA0	7.08	7.84
	3 switch positions, momentary contact type (2x45°)		3SU1002-2BM60-0AA0	3SU1052-2BM60-0AA0	7.08	7.84



SIRIUS ACT (actuators and indicators)						
Example	Description	Switch position	Part Number		Price	
			Plastic	Metal	Plastic	Metal
Key-operated switches						
	2 switch positions, momentary contact type (RONIS SB30)		3SU1000-4BC01-0AA0	3SU1050-4BC01-0AA0	17.25	18.77
	2 switch positions, latching (RONIS SB 30)		3SU1000-4BF11-0AA0	3SU1050-4BF11-0AA0	17.25	18.77
	2 switch positions, latching (CES, SSG10) – (0+I)		3SU1000-5BF11-0AA0	3SU1050-5BF11-0AA0	37.22	40.70
	2 switch positions, latching (CES, SSG10) – (0)		3SU1000-5BF01-0AA0	3SU1050-5BF01-0AA0	37.22	40.70
	3 switch positions, latching (CES, SSG10)		3SU1000-5BL11-0AA0	3SU1050-5BL11-0AA0	37.22	40.70
	3 switch positions, latching (RONIS SB30)		3SU1000-4BL11-0AA0	3SU1050-4BL11-0AA0	18.26	19.78
SIRIUS ACT (actuators and indicators)						
Example	Description	Switch position	Part Number (without holder)		Price	
			Plastic	Metal	Plastic	Metal Price
Mushroom pushbutton 40 mm						
	momentary contact type, without release		3SU1000-1BD10-0AA0	3SU1050-1BD10-0AA0	7.58	8.28
	latching, with pull-to-unlatch mechanism		3SU1000-1BA20-0AA0	3SU1050-1BA20-0AA0	13.52	13.90
E-STOP mushroom pushbutton						
	with pull-to-unlatch mechanism Ø 40 mm		3SU1000-1HA20-0AA0	3SU1050-1HA20-0AA0	13.71	15.10
	with rotate-to-unlatch mechanism Ø 33,4 mm		3SU1000-1GB20-0AA0	3SU1050-1GB20-0AA0	12.45	15.17
	with rotate-to-unlatch mechanism Ø 40 mm		3SU1000-1HB20-0AA0	3SU1050-1HB20-0AA0	13.71	15.10
	Illuminated with rotate-to-unlatch mechanism Ø 40 mm		3SU1001-1HB20-0AA0	3SU1051-1HB20-0AA0	15.23	16.75
	with lock RONIS SB30		3SU1000-1HF20-0AA0	3SU1050-1HF20-0AA0	29.26	31.79
	with lock CES SSG10		3SU1000-1HR20-0AA0	3SU1050-1HR20-0AA0	46.33	50.50

SIRIUS ACT (accessories)						
Example	Description	Contacts	Part Number		Price	
			Plastic	Metal	Plastic Price	Metal Price
Holder with/without contact block						
	3-way holder without module		3SU1500-0AA10-0AA0	3SU1550-0AA10-0AA0	1.29	1.53
	3-way holder with contact-module	1NO	3SU1500-1AA10-1BA0	3SU1550-1AA10-1BA0	4.65	4.89
		1NC	3SU1500-1AA10-1CA0	3SU1550-1AA10-1CA0	4.65	4.89
Contact blocks, screw-type terminals for front plate mounting						
	Mounting depth 50 mm	1NO	3SU1400-1AA10-1BA0		3.36	
		1NC	3SU1400-1AA10-1CA0		3.36	
	Mounting depth 50 mm; with installation monitoring contact	1NC	3SU1400-1AA10-1HA0		8.09	
Contact blocks, spring-type terminals for front plate mounting						
	Mounting depth 50 mm	1NO	3SU1400-1AA10-3BA0		3.54	
		1NC	3SU1400-1AA10-3CA0		3.54	
Label holders for inscription labels						
	12,5 mm x 27 mm; round, flat		3SU1900-0AG10-0AA0		4.60 (10 pieces)	
	27 mm x 27 mm; round, flat		3SU1900-0AJ10-0AA0		4.60 (10 pieces)	
	17,5 mm x 28 mm; round design		3SU1900-0AS10-0AA0		4.60 (10 pieces)	
SIRIUS ACT (accessories)						
Example	Description		LED colour	Part Number	Price	
Labels for sticking into label holder (10 pieces)						
	black/white 12,5 x 27			3SU1900-0AC16-0AA0	3.70 (10 pieces)	
	silver/black 12,5 x 27			3SU1900-0AC81-0AA0	4.50 (10 pieces)	
	black/white 17,5 x 27			3SU1900-0AD16-0AA0	3.70 (10 pieces)	
	black/white 27 x 27			3SU1900-0AE16-0AA0	4.70 (10 pieces)	
	silver/black 27 x 27			3SU1900-0AE81-0AA0	5.90 (10 pieces)	
	black/white 22 x 22			3SU1900-0AF16-0AA0	4.70 (10 pieces)	
	silver/black 22 x 22			3SU1900-0AF81-0AA0	5.90 (10 pieces)	
LED-module for front plate mounting mounting depth 50 mm						
	LED AC/DC 24 V, screw-type terminals		●	3SU1401-1BB20-1AA0	5.12	
			●	3SU1401-1BB30-1AA0	5.12	
			●	3SU1401-1BB40-1AA0	5.12	
			○	3SU1401-1BB60-1AA0	5.12	
	LED AC 230 V, screw-type terminals		●	3SU1401-1BF20-1AA0	9.10	
			●	3SU1401-1BF30-1AA0	9.10	
			●	3SU1401-1BF40-1AA0	9.10	
			○	3SU1401-1BF60-1AA0	9.10	
	LED, spring-type terminals		○	3SU1401-1BB60-3AA0	5.63	

Enclosures with standard fittings					
	EMERGENCY-STOP mushroom pushbuttons, red, Ø 40 mm, with yellow top part, with protective collar, 1NC	3SU1801-0NA00-2AC2	3SU1851-0NA00-2AC2	38.17	67.62
	EMERGENCY-STOP mushroom pushbuttons, red, Ø 40 mm, with yellow top part, without protective collar, 1NC	3SU1801-0NA00-2AA2	3SU1851-0NA00-2AA2	27.24	46.26
	EMERGENCY-STOP mushroom pushbuttons, red, Ø 40 mm, with yellow top part, with protective collar, 2NC	3SU1801-0NB00-2AC2	3SU1851-0NB00-2AC2	42.41	72.05
	Two-hand operation consoles with standard fittings		3SU1853-3NB00-1AA1		340.02
SIRIUS ACT (accessories)					
Example	Description	No. of command points		Part Number	Price
Empty enclosure, plastic					
	for commanding devices, 22 mm, round, with yellow top part, without protective collar	1		3SU1801-0AA00-0AA2	8.03
	for commanding devices, 22 mm, round, with yellow top part, with protective collar	1		3SU1801-0AA00-0AC2	19.84
	for commanding devices, 22 mm, round, with grey top part	1		3SU1801-0AA00-0AB1	8.03
		2		3SU1802-0AA00-0AB1	10.36
		3		3SU1803-0AA00-0AB1	11.44
		4		3SU1804-0AA00-0AB1	14.47
		6		3SU1806-0AA00-0AB1	20.41
Empty enclosure, metal					
	for commanding devices, 22 mm, round, with yellow top part, without protective collar	1		3SU1851-0AA00-0AA2	24.40
	for commanding devices, 22 mm, round, with yellow top part, with protective collar	1		3SU1851-0AA00-0AC2	48.10
	for commanding devices, 22 mm, round with grey top part	1		3SU1851-0AA00-0AB1	21.24
		2		3SU1852-0AA00-0AB1	25.41
		3		3SU1853-0AA00-0AB1	33.69
		4		3SU1854-0AA00-0AB1	44.68
		6		3SU1856-0AA00-0AB1	58.02
Contact blocks, screw-type terminals for base mounting (enclosure)					
	with 1 contact element	1NO		3SU1400-2AA10-1BA0	4.10
		1NC		3SU1400-2AA10-1CA0	4.10
		with integrated LED (AC/DC 24 V)			
Protective covers					
 	Blanking plugs, round			3SU1900-0FA10-0AA0	2.12
	Protective collars for EMERGENCY-Stop, round			3SU1900-0DY30-0AA0	5.05




SIRIUS 3SE5 position switches							
Example	Actuator	SR*	PR*	Part Number		Price	
				Molded-plasti	Metal	Molded-plastic Price	Metal Price
Enclosure 31 mm width, acc. to EN 50047 with snap-action contacts 1NO / 1NC							
	Basic switch (actuator see below)			3SE5232-0CC05	3SE5212-0CC05	13.57	18.67
	Roller plunger		X	3SE5232-0HD03	3SE5212-0CD03	17.38	22.42
	Roller lever		X	3SE5232-0HE10	3SE5212-0CE10	19.90	24.08
	Angular roller lever		X	3SE5232-0HF10	3SE5212-0CF10	19.90	24.08
	Twist lever		X	3SE5232-0HK21	3SE5212-0CK21	20.45	25.55
	Twist lever, infinitely adjustable length		X	3SE5232-0HK50	3SE5212-0CK50	23.46	28.56
Enclosure 40 mm width, acc. to EN 50047 with snap-action contacts 1NO / 1NC							
	Basic switch (actuator see below)			3SE5132-0CA00	3SE5112-0CA00	15.23	21.13
	Rounded plunger high-grade steel			3SE5132-0CC03	3SE5112-0CC02	22.05	34.64
	Roller plunger	X		3SE5132-0CD05	3SE5112-0CD02	23.28	38.63
	Roller lever		X	3SE5132-0CE05	3SE5112-0CE01	25.61	33.11
	Angular roller lever		X	3SE5132-0CF05	3SE5112-0CF01	25.61	33.11
	Twist lever		X	3SE5132-0CJ01	3SE5112-0CH01	27.39	37.16
	Twist lever, infinitely adjustable length		X	3SE5132-0CJ50	3SE5112-0CH50	29.42	39.31
	Rod actuator, aluminium			3SE5132-0CJ80	3SE5112-0CH80	30.71	41.83
	Spring rod			3SE5132-0CR01	3SE5112-0CR01	27.21	32.86
Enclosure 50 mm / 56 mm width, acc. to EN 50047 with snap-action contacts 1NO / 1NC							
	Basic switch			3SE5242-0CC05 (with teflon plunger)	3SE5122-0CA00	17.32	21.13
	Plain plunger				3SE5122-0CB01		26.10
	Rounded plunger			See basic switch	3SE5122-0CC02 (High-grade steel)		34.64
	Roller plunger	X		3SE5242-0HD03	3SE5122-0CD02	21.13	38.63
	Roller lever		X	3SE5242-0HE10	3SE5122-0CE01	23.65	33.11
	Twist lever		X	3SE5242-0HK21	3SE5122-0CH01	24.08	37.16
	Twist lever, infinitely adjustable length		X	3SE5242-0HK50	3SE5122-0CH50	27.21	39.31

SR\* – with high-grade steel roller  
PR\* – with plastic roller


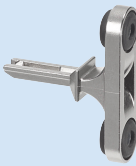

Actuators for 3SE5 basic position switches							
Plain plunger	Rounded plunger	Roller plunger	Roller lever	Angular roller lever	Spring rod	Twist actuator with twist lever	Twist actuator with twist lever adjustable length
						 	
Plain plunger	Rounded plunger	Roller plunger	Roller lever	Angular roller lever	Spring rod	Twist actuator	Twist lever, adjustable length

The appropriate order number can be selected from catalogue IC 10

SIRIUS 3SE5 position switches						
Example	Contacts	Enclosure width	Part Number		Price	
			Molded-plastic	Metal	Molded-plastic Price	Metal Price

Safety position switch with interlocking, 5 directions of approach						
	1NO + 1NC	31 mm	3SE5232-0RV40	3SE5212-0RV40	29.17	34.27
	1NO + 2NC	31 mm	3SE5232-0QV40	3SE5212-0QV40	30.46	36.42
	1NO + 2NC	40 mm	3SE5132-0QV20	3SE5112-0QV10	33.04	53.19
	1NO + 2NC	50 mm	3SE5242-0QV40		34.21	
	1NO + 2NC	56 mm		3SE5122-0QV10		53.25

Supplied without actuator, please order separately

Actuator				
Example	Version	Actuator length	Part Number	Price
	Standard	75,6 mm	3SE5000-0AV01	4.14
	with vertical fixing	53 mm	3SE5000-0AV02	4.75
	with transverse fixing	47 mm	3SE5000-0AV03	4.75



SITOP Power Supply					
	Output	Input	Maße (H x B x T)	Part Number	Price
	Voltage / Current	Rated voltage	Dimensions (h x w x d)		
SITOP compact – The slim power supply unit for control boxes					
	DC 12 V / 2,0 A, PSU100C	1 AC 100-230 V (AC 85...264 V/ DC 110...300 V)	30 x 80 x 100	6EP1321-5BA00	62.00
	DC 12 V / 6,5 A, PSU100C		52,5 x 80 x 100	6EP1322-5BA10	93.00
	DC 24 V / 0,6 A, PSU100C		22,5 x 80 x 100	6EP1331-5BA00	37.00
	DC 24 V / 1,3 A, PSU100C		30 x 80 x 100	6EP1331-5BA10	47.00
	DC 24 V / 2,5 A, PSU100C		45 x 80 x 100	6EP1332-5BA00	62.00
	DC 24 V / 4,0 A, PSU100C		52,5 x 80 x 100	6EP1332-5BA10	89.00
LOGO!Power – The flat power supply unit for distribution boards					
	DC 5 V / 3 A	1 AC 100-240 V (AC 85...264 V/ DC 110...300 V)	36 x 90 x 53	6EP3310-6SB00-0AY0	71.00
	DC 5 V / 6,3 A		54 x 90 x 53	6EP3311-6SB00-0AY0	94.00
	DC 12 V / 0,9 A		18 x 90 x 53	6EP3320-6SB00-0AY0	40.00
	DC 12 V / 1,9 A		36 x 90 x 53	6EP3321-6SB00-0AY0	71.00
	DC 12 V / 4,5 A		54 x 90 x 53	6EP3322-6SB00-0AY0	94.00
	DC 15 V / 1,9 A		36 x 90 x 53	6EP3321-6SB10-0AY0	71.00
	DC 15 V / 4 A		54 x 90 x 53	6EP3322-6SB10-0AY0	94.00
	DC 24 V / 0,6 A		18 x 90 x 53	6EP3330-6SB00-0AY0	34.00
	DC 24 V / 1,3 A		36 x 90 x 53	6EP3331-6SB00-0AY0	50.00
	DC 24 V / 2,5 A		54 x 90 x 53	6EP3332-6SB00-0AY0	67.00
	DC 24 V / 4 A		72 x 90 x 53	6EP3333-6SB00-0AY0	91.00
SITOP in SIMATIC Design					
	DC 14 V / 2,5, PM 1207	1 AC 120/230 V (AC 85...132/ 170...264 V)	70 x 100 x 75	6EP1332-1SH71	75.00
SITOP smart – The powerful standard power supply					
	DC 24 V / 2.5 A, PSU100L	1 AC 120-230 V (AC 93 ... 132/ 187 ... 264 V)	32.5 x 125 x 120	6EP1332-1LB00	50.00
	DC 24 V / 5 A, PSU100L		50 x 125 x 120	6EP1333-1LB00	71.00
	DC 24 V / 10 A, PSU100L		70 x 125 x 150	6EP1334-1LB00	101.00
	DC 24 V / 10 A, PSU300S	3 AC 400-500 V (3AC 340...550 V)	90 x 145 x 150	6EP1434-2BA10	170.00
	DC 24 V / 20 A, PSU300S		90 x 145 x 150	6EP1436-2BA10	197.00
	DC 24 V / 40 A, PSU300S		150 x 145 x 150	6EP1437-2BA20	305.00


SITOP Power Supply					
	Output	Input	Maße (H x B x T)	Part Number	Price
	Voltage / Current	Rated voltage	Dimensions (h x w x d)		
SITOP modular – Technology Power Supply for Demanding Solutions					
	DC 24 V / 5 A, PSU8200	1 AC 120/230 V (AC 85...132/170...264 V)	45 x 125 x 125	6EP3333-8SB00-0AY0	132.00
	DC 24 V / 10 A, PSU8200		55 x 125 x 125	6EP3334-8SB00-0AY0	173.00
		DC 24 V / 20 A, PSU8200	1 AC 120-230 V (AC 85...275 V oder DC 88...350 V)	90 x 125 x 125	6EP1336-3BA10
	DC 24 V / 5 A, PSU200M	1/2 AC 120 – 230/230-500 V (AC 85...264/176...550 V)	70 x 125 x 125	6EP1333-3BA10	146.00
	DC 24 V / 10 A, PSU200M		70 x 125 x 125	6EP1334-3BA10	190.00
Expansion modules to increase the system availability					
	Buffer module				
	200 ms at 40 A – 1,6 s at 5 A, PSE201U	DC 24 V (24...28.8 V)	70 x 125 x 125	6EP1961-3BA01	161.00
	Selectivity module				
	4 x 0,5...3 A, PSE200U	DC 24 V (22...30 V)	72 x 80 x 72	6EP1961-2BA11	97.00
	4 x 3...10 A, PSE200U			6EP1961-2BA21	108.00
	4 x 0.5...3A PSE200U 3 A NEC Class 2			6EP1961-2BA51	97.00

LOGO! 8 Logic module			
Example		Part Number	Price
<b>Basic modules with display</b>			
	LOGO! 24CE 8DI/4DO	6ED1052-1CC08-0BA0	102.00
	LOGO! 12/24RCE 8DI/4DO Relay	6ED1052-1MD08-0BA0	115.00
	LOGO! 24RCE 8DI/4DO Relay	6ED1052-1HB08-0BA0	115.00
	LOGO! 230RCE 8DI/4DO Relay	6ED1 052-1FB00-0BA8	118.00
<b>Basic modules without display</b>			
	LOGO! 24CEo 8DI/4DO	6ED1052-2CC08-0BA0	89.00
	LOGO! 12/24RCEo 8DI/4DO Relay	6ED1052-2MD08-0BA0	92.00
	LOGO! 24RCEo 8DI/4DO Relay	6ED1052-2HB08-0BA0	92.00
	LOGO! 230RCEo 8DI/4DO Relay	6ED1052-2FB08-0BA0	95.00
<b>Expansion modules digital</b>			
	LOGO! DM8 24, 4DI/4DO	6ED1055-1CB00-0BA2	56.00
	LOGO! DM8 12/24R, 4DI/4DO Relay	6ED1055-1MB00-0BA2	60.00
	LOGO! DM8 24R, 4DI/4DO Relay	6ED1055-1HB00-0BA2	60.00
	LOGO! DM8 230R, 4DI/4DO Relay	6ED1055-1FB00-0BA2	60.00
	LOGO! DM16 24, 8DI/8DO	6ED1055-1CB10-0BA2	90.00
	LOGO! DM16 24R, 8DI/8DO Relay	6ED1055-1NB10-0BA2	98.00
	LOGO! DM16 230R, 8DI/8DO Relay	6ED1055-1FB10-0BA2	98.00
<b>Expansion modules analog</b>			
	LOGO! AM2, DC 12...24 V, 2AE 0...10 V oDir 0/4 ... 20 mA	6ED1055-1MA00-0BA2	73.00
	LOGO! AM2 RTD, DC 12...24 V, 2AE -50...200 °C (Pt100/1000)	6ED1055-1MD00-0BA2	89.00
	LOGO! AM2 AQ, 2AA DC 0...10 V / 0/4...20 mA	6ED1055-1MM00-0BA2	105.00
<b>Communication modules</b>			
	LOGO! CSM 12/24, 4 Port Ethernet Switch	6GK7177-1MA20-0AA0	108.00
	LOGO! CMR 2020	6GK7142-7BX00-0AX0	306.00
	LOGO! CM 2040	6GK7142-7EX00-0AX0	412.00
<b>Accessories</b>			
	LOGO! TDE Text Display	6ED1055-4MH08-0BA0	130.00
	LOGO!POWER DC 5 V / 3 A 36 x 90 x 53	6EP3310-6SB00-0AY0	71.00
	LOGO!POWER DC 5 V / 6,3 A 54 x 90 x 53	6EP3311-6SB00-0AY0	94.00
	LOGO!POWER DC 12 V / 0,9 A 18 x 90 x 53	6EP3320-6SB00-0AY0	40.00
	LOGO!POWER DC 12 V / 1,9 A 36 x 90 x 53	6EP3321-6SB00-0AY0	71.00
	LOGO!POWER DC 12 V / 4,5 A 54 x 90 x 53	6EP3322-6SB00-0AY0	94.00
	LOGO!POWER DC 15 V / 1,9 A 36 x 90 x 53	6EP3321-6SB10-0AY0	71.00
	LOGO!POWER DC 15 V / 4 A 54 x 90 x 53	6EP3322-6SB10-0AY0	94.00
	LOGO!POWER DC 24 V / 0,6 A 18 x 90 x 53	6EP3330-6SB00-0AY0	34.00
	LOGO!POWER DC 24 V / 1,3 A 36 x 90 x 53	6EP3331-6SB00-0AY0	50.00
	LOGO!POWER DC 24 V / 2,5 A 54 x 90 x 53	6EP3332-6SB00-0AY0	67.00
	LOGO!POWER DC 24 V / 4 A 72 x 90 x 53	6EP3333-6SB00-0AY0	91.00
<b>Software</b>			
	LOGO! Soft Comfort V8	6ED1058-0BA08-0YA1	45.00
<b>Starter Kits</b>			
	LOGO! 8.2 12/24V Starter Kit	6ED1057-3BA01-0AA8	192.00
	LOGO! 8.2 230V Starter Kit	6ED1057-3BA03-0AA8	171.00
	LOGO! 8.2 TDE Starter Kit	6ED1057-3BA11-0AA8	275.00


**SINAMICS V20 basic inverters**

Example	Rated Power <sup>1)</sup>		Rated output current $I_{rated}$	Frame Size	Dimensions (h x w x d)	Part Number	Price
	kW	hp	A	FS <sup>2)</sup>	mm		

**1AC inverter without integrated line filter**

	Fieldbus: USS/ Modbus RTU, Line voltage: 200 V ... 240 V, $\pm 10\%$ , 1 phase AC with 150% overload for 60sec. in a 300 sec cycle, I/O-interface: 4DI, 2DO, 2AI, 1AO, with inbuilt BOP, protection: IP20/ UL open type						
	0,12	0,16	0,9	FSAA without fan	68 x 142 x 108	6SL3210-5BB11-2UV1	95.00
	0,25	0,33	1,7			6SL3210-5BB12-5UV1	102.00
	0,37	0,5	2,3			6SL3210-5BB13-7UV1	108.00
	0,55	0,75	3,2	FSAB without fan	68 x 142 x 128	6SL3210-5BB15-5UV1	118.00
	0,75	1,00	4,2			6SL3210-5BB17-5UV1	127.00
	1,1	1,5	6,0	FSB with one fan	160 x 140 x 164,5	6SL3210-5BB21-1UV1	143.00
	1,5	2,0	7,8			6SL3210-5BB21-5UV1	162.00
	2,2	3,0	11,0	FSC with one fan	182 x 184 x 169	6SL3210-5BB22-2UV0	197.00
	3,0	4,0	13,6			6SL3210-5BB23-0UV0	228.00

**1AC inverter with integrated line filter category C2 <sup>3)</sup>**

	Fieldbus: USS/ Modbus RTU, Line voltage: 200 V ... 240 V, $\pm 10\%$ , 1 phase AC with 150% overload for 60sec. in a 300 sec cycle, I/O-interface: 4DI, 2DO, 2AI, 1AO, with inbuilt BOP, protection: IP20/ UL open type						
	0,12	0,16	0,9	FSAA without fan	68 x 142 x 108	6SL3210-5BB11-2BV1	105.00
	0,25	0,33	1,7			6SL3210-5BB12-5BV1	111.00
	0,37	0,5	2,3			6SL3210-5BB13-7BV1	118.00
	0,55	0,75	3,2	FSAB without fan	68 x 142 x 128	6SL3210-5BB15-5BV1	127.00
	0,75	1,00	3,9			6SL3210-5BB17-5BV1	137.00
	1,1	1,5	6,0	FSB with one fan	160 x 140 x 164,5	6SL3210-5BB21-1BV1	155.00
	1,5	2,0	7,8			6SL3210-5BB21-5BV1	174.00
	2,2	3,0	11,0	FSC with one fan	182 x 184 x 169	6SL3210-5BB22-2AV0	213.00
	3,0	4,0	13,6			6SL3210-5BB23-0AV0	248.00


<sup>1)</sup> Overload capability: 150 % rated output current for 60 s, cycle time 300 s.

<sup>2)</sup> FS = Frame Size as FSA, FSB, FSC and FSD


<sup>3)</sup> Max. shielded motor cable length for frame size FSA 10 m and for frame sizes FSB to FSC 25 m.

To achieve 25 m shielded motor cable length also with frame size FSA, unfiltered inverters with external line filter have to be used.

**SINAMICS V20 – 3AC inverter without integrated line filter**

Example	Rated Power <sup>1)</sup>		Rated output current <i>I</i> <sub>rated</sub>	Frame Size	Dimensions (h x w x d)	Part Number	Price
	kW	hp	A	FS <sup>2)</sup>	mm		
	Fieldbus: USS/Modbus RTU, Line voltage: 380 V ... 480 V, ± 10 %, output voltage 380 V ... 480 V, 3-phase, with 150% overload for 60sec. in a 300 sec cycle., I/O-interface: 4DI, 2DO,2AI,1AO, with inbuilt BOP, protection: IP20/ UL open type						
	0,37	0,5	1,3	FSA without fan	150 x 90 x 145,5	6SL3210-5BE13-7UV0	184.00
	0,55	0,75	1,7			6SL3210-5BE15-5UV0	194.00
	0,75	0,75	2,2			6SL3210-5BE17-5UV0	200.00
	1,1	1,5	3,1	FSA with one fan	166 x 90 x 145,5	6SL3210-5BE21-1UV0	216.00
	1,5	2,0	4,1			6SL3210-5BE21-5UV0	238.00
	2,2	3,0	5,6			6SL3210-5BE22-2UV0	276.00
	3,0	4,0	7,3	FSB with one fan	160 x 140 x 164,5	6SL3210-5BE23-0UV0	314.00
	4,0	5,0	8,8			6SL3210-5BE24-0UV0	352.00
	5,5	7,5	12,5	FSC with one fan	182 x 184 x 169	6SL3210-5BE25-5UV0	432.00
	7,5	10	16,5	FSD with two fans	206,5 x 240 x 172,5	6SL3210-5BE27-5UV0	545.00
	11,0	15	25			6SL3210-5BE31-1UV0	701.00
	15,0	20	31			6SL3210-5BE31-5UV0	854.00
	Fieldbus: USS/Modbus RTU, Line voltage: 380 V ... 480 V, ± 10 %, 3-phase AC, High overload, 150% overload for 60sec. in a 300 sec cycle., I/O-interface: 4DI, 2DO,2AI,1AO, with inbuilt BOP, protection: IP20/ UL open type Low overload, 110% overload for 60sec. in a 300 sec cycle						
	22,0 <sup>4)/</sup> 18,5 <sup>5)</sup>	30,0 <sup>4)/</sup> 25,0 <sup>5)</sup>	45 <sup>6)</sup>	FSE with two fans	264,5 x 243,5 x 209	6SL3210-5BE31-8UV0	1017.00
	30,0 <sup>4)/</sup> 22,0 <sup>5)</sup>	40,0 <sup>4)/</sup> 30,0 <sup>5)</sup>	60 <sup>6)</sup>			6SL3210-5BE32-2UV0	1167.00

**SINAMICS V20 – 3AC inverter with integrated line filter category C3 <sup>3)</sup>**

	Fieldbus: USS/Modbus RTU, Line voltage: 380 V ... 480 V, ± 10 %, 3-phase AC, with 150% overload for 60sec., I/O-interface: 4DI, 2DO,2AI,1AO, with inbuilt BOP, protection: IP20/ UL open type						
	0,37	0,5	1,3	FSA without fan	150 x 90 x 145,5	6SL3210-5BE13-7CV0	200.00
	0,55	0,75	1,7			6SL3210-5BE15-5CV0	209.00
	0,75	0,75	2,2			6SL3210-5BE17-5CV0	216.00
	1,1	1,5	3,1	FSA with one fan	166 x 90 x 145,5	6SL3210-5BE21-1CV0	232.00
	1,5	2,0	4,1			6SL3210-5BE21-5CV0	258.00
	2,2	3,0	5,6			6SL3210-5BE22-2CV0	298.00
	3,0	4,0	7,3	FSB with one fan	160 x 140 x 164,5	6SL3210-5BE23-0CV0	340.00
	4,0	5,0	8,8			6SL3210-5BE24-0CV0	381.00
	5,5	7,5	12,5	FSC with one fan	182 x 184 x 169	6SL3210-5BE25-5CV0	466.00
	7,5	10	16,5	FSD with two fans	206,5 x 240 x 172,5	6SL3210-5BE27-5CV0	590.00
	11,0	15	25			6SL3210-5BE31-1CV0	759.00
	15,0	20	31			6SL3210-5BE31-5CV0	923.00
	Fieldbus: USS/Modbus RTU, Line voltage: 380 V ... 480 V, ± 10 %, 3-phase AC, High overload, 150% overload for 60sec. in a 300 sec cycle., I/O-interface: 4DI, 2DO,2AI,1AO, with inbuilt BOP, protection: IP20/ UL open type Low overload, 110% overload for 60sec. in a 300 sec cycle						
	22,0 <sup>4)</sup> / <sub>18,5 <sup>5)</sup></sub>	30,0 <sup>4)</sup> / <sub>25,0 <sup>5)</sup></sub>	45 <sup>6)</sup> (40 <sup>7)</sup> ) / 38 <sup>8)</sup> (34 <sup>9)</sup> )	FSE with two fans	264.5 x 243.5 x 209	6SL3210-5BE31-8CV0	1099.00
30,0 <sup>4)</sup> / <sub>22,0 <sup>5)</sup></sub>	40,0 <sup>4)</sup> / <sub>30,0 <sup>5)</sup></sub>	60 <sup>6)</sup> (52 <sup>7)</sup> ) / 45 <sup>8)</sup> (40 <sup>9)</sup> )	6SL3210-5BE32-2CV0			1261.00	

<sup>1)</sup> Overload capability: 150 % rated output current for 60 s, cycle time 300 s.

<sup>2)</sup> FS = Frame Size as FSA, FSB, FSC and FSD

<sup>3)</sup> Max. shielded motor cable length for frame size FSA10 m and for frame sizes FSB to FSD 25 m. To reach category C2 or to achieve achieve 25 m shielded moto cable length also with frame size FSA, unfiltered inverters with external line filter have to be used.

<sup>4)</sup> P rated (LO) = Rated Power for low overload

<sup>5)</sup> P rated (HO) = Rated Power for high overload

<sup>6)</sup> For IL 400 V, the output current IL is based on the duty cycle for low overload (LO).

<sup>7)</sup> For IL 480V.

<sup>8)</sup> For IL 400 V, the output current IH is based on the duty cycle for high overload (HO).

<sup>9)</sup> For IH 480 V.



# SINAMICS V20 basic inverters – Power components

Example	Rated Power	Frame Size	Part Number	Price
	kW	FS <sup>1)</sup>		

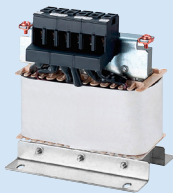
## Line-side power components

### Line filter class B for category C2 <sup>2)</sup>, Motor cable length (shielded), max. 25 m



1 AC 200 ... 240 V				
0,12 ... 0,75	FSAA / FSAB	6SE6400-2FL01-0AB0	134.00	
3 AC 380 ... 480 V				
0,37 ... 2,2	FSAA / FSAB	6SL3203-0BE17-7BA0	217.00	
3,0 ... 5,5	FSB / FSC	6SL3203-0BE21-8BA0	380.00	
7,5 ... 15,0	FSD	6SL3203-0BE23-8BA0	488.00	
30	FSE	6SL3203-0BE27-5BA0	651.00	

## Line reactor



1 AC 200 ... 240 V				
0,12 ... 0,25	FSAA / FSAB	6SE6400-3CC00-4AB3	69.00	
0,37 ... 0,75	FSAA / FSAB	6SE6400-3CC01-0AB3	69.00	
1,1 ... 2,2	FSB / FSC	6SE6400-3CC02-6BB3	99.00	
3,0	FSC	6SE6400-3CC03-5CB3	99.00	
3 AC 380 ... 480 V				
0,37 ... 1,1	FSAA / FSAB	6SL3203-0CE13-2AA0	66.00	
1,5 ... 4,0	FSAA / FSAB / FSB	6SL3203-0CE21-0AA0	88.00	
5,5 ... 7,5	FSC	6SL3203-0CE21-8AA0	121.00	
11,0 ... 15,0	FSD	6SL3203-0CE23-8AA0	159.00	
22,0	FSE	6SE6400-3CC05-2DD0	278.00	
30,0	FSE	6SE6400-3CC08-3ED0	394.00	

## DC link components

### Braking resistor



1 AC 200 ... 240 V				
0,12 ... 0,75	FSAA / FSAB	6SE6400-4BC05-0AA0	136.00	
1,1 ... 1,5	FSB	6SE6400-4BC11-2BA0	202.00	
2,2 ... 3,0	FSC	6SE6400-4BC12-5CA0	230.00	
3 AC 380 ... 480 V				
0,37 ... 1,5	FSAA / FSAB	6SL3201-0BE14-3AA0	95.00	
2,2 ... 4,0	FSAA / FSAB / FSB	6SL3201-0BE21-0AA0	134.00	
5,5 ... 7,5	FSC / FSD	6SL3201-0BE21-8AA0	186.00	
11,0 ... 15,0	FSD	6SL3201-0BE23-8AA0	252.00	
22,0 ... 30,0	FSE	6SE6400-4BD21-2DA0	408.00	


<sup>1)</sup> FS = Frame Size as FSA, FSB, FSC and FSD

<sup>2)</sup> Max. shielded motor cable length for frame size FSA 10 m and for frame sizes FSB to FSC 25 m.

To achieve 25 m shielded motor cable length also with frame size FSA, unfiltered inverters with external line filter have to be used.


## Load-side power components

### Output reactor

Example	Rated Power	Frame Size	Part Number	Price
	kW	FS <sup>1)</sup>		
	<b>1 AC 200 ... 240 V</b>			
	0,12 ... 0,75	FSAA / FSAB	6SE6400-3TC00-4AD3	101.00
	1,1 ... 2,2	FSB / FSC	6SE6400-3TC01-0BD3	141.00
	3,0	FSC	6SE6400-3TC03-2CD3	143.00
	<b>3 AC 380 ... 480 V</b>			
	0,37 ... 1,5	FSAA / FSAB	6SL3202-0AE16-1CA0	103.00
	2,2 ... 3,0	FSAA / FSAB / FSB	6SL3202-0AE18-8CA0	120.00
	4,0 ... 5,5	FSB / FSC	6SL3202-0AE21-8CA0	164.00
	7,5 ... 15,0	FSD	6SL3202-0AE23-8CA0	225.00
	22,0 ... 30,0	FSE	6SE6400-3TC05-4DD0	332.00

## SINAMICS V20 basic inverters – Supplementary system components & Spare parts

### Designation

Example	Part Number	Price
<b>Supplementary System components for SINAMICS V20</b>		
	Parameter Loader	6SL3255-0VE00-0UA1 57.00
	V20 Basic Operator Panel (for door mounting with RJ45 connection)	6SL3255-0VA00-4BA1 21.00
	BOP Interface (for door mounting, with RJ45 connection)	6SL3255-0VA00-2AA1 13.00
	Braking Module (230 V 1AC: 8A, 400 V 3AC: 7A)	6SL3201-2AD20-8VA0 89.00
	Sinamics SD Card 512Mb	6SL3054-4AG00-2AA0 44.00
	RS485 Terminators (50 pieces)	6SL3255-0VC00-0HA0 25.00
	DIN Rail kit for FSA, FSAA & FSAB	6SL3261-1BA00-0AA0 8.00
	DIN Rail kit for FSB	6SL3261-1BB00-0AA0 17.00
	Migration mounting kit to fit FSAA and FSAB to former FSA	6SL3266-1ER00-0VA0 3.00
	V20 I/O Expansion Module	6SL3256-0VE00-6AA0 39.00
	Smart Access Module	6SL3255-0VA00-5AA0 109.00
	Shield Connection Kit - FSAA and FSAB	6SL3266-1AR00-0VA0 4.00
	Shield Connection Kit - FSA	6SL3266-1AA00-0VA0 7.00
	Shield Connection Kit - FSB	6SL3266-1AB00-0VA0 16.00
	Shield Connection Kit - FSC	6SL3266-1AC00-0VA0 16.00
	Shield Connection Kit - FSD	6SL3266-1AD00-0VA0 16.00
	Shield Connection Kit - FSE	6SL3266-1AE00-0VA0 16.00

<sup>1)</sup> FS = Frame Size as FSAA, FSAB, FSA, FSB, FSC and FSD

<sup>2)</sup> BOP = Basic Operator Panel

## Additional information for SINAMICS V20

SINAMICS V20 is supplied with a printed copy of Getting Started compact operating instructions. Further documentation, such as operating instructions and list manual are included in the SINAMICS Manual Collection on DVD.

Documentation also available free of cost on the Internet at: [www.siemens.com/sinamics-v20](http://www.siemens.com/sinamics-v20)

### The selection of the article number is carried out according to

- the requested motor performance or by the requested motor currents and the overload requirements of the application
- the necessary EMC classification and
- the requested integrated fieldbus interface

Further details available:  
 Brochure, Flyer and Price list: SINAMICS V20  
 Internet: [www.siemens.com/sinamics-v20](http://www.siemens.com/sinamics-v20)

## Overview

The 3LD switches are used for switching main and auxiliary circuits, but also for switching induction motors and other loads during maintenance and repair work.

They are manually operated switch disconnectors according to IEC 60947-3/VDE 0660 Part 107 (IEC 60947-3) and comply with the conditions for switch disconnectors.

The 3LD can be used as

- ON-OFF switch
- EMERGENCY-STOP switch
- Main control switch according to IEC 60204-1

In IEC 60204-1 (VDE 0113 Part 1), main switches are called "mains isolating devices", while EMERGENCY-STOP switches are termed "devices for emergency shutdown". Maintenance personnel can protect themselves against unauthorized startup with padlocks (up to three can be fitted).

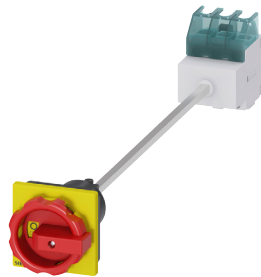
3LD main control and EMERGENCY-STOP switches are approved according to UL 508

### Selection and ordering data

#### Floor mounting

##### Main control and EMERGENCY-STOP switches with door-coupling rotary operating mechanism

- Red/yellow (EMERGENCY-STOP)
- With 300 mm switch shaft
- Lockable in 0 position with max. 3 padlocks
- IP65 degree of protection at the front
- Door-coupling rotary operating mechanism with integrated tolerance compensation
- Mounting using screws or snap-on mounting on 35 mm standard mounting rail
- Including terminal cover for the infeed side
- Front plate
- 3LD20, 3LD21, 3LD22: 67 mm × 67 mm
- 3LD25 to 3LD28: 90 mm × 90 mm
- Installation dimension
- 3LD20, 3LD21, 3LD22: 380 mm
- 3LD25 to 3LD28: 390 mm.



#### Moulded-plastic enclosures

##### Main control and EMERGENCY-STOP switches

- Red/yellow (EMERGENCY-STOP)
- With N- and/or PE-ground terminal
- Lockable in 0 position with up to max. 3 padlocks
- IP 65 degree of protection at the front
- Rotary operating mechanisms with center-hole mounting
- For floor-mounting auxiliary switches
- Metric screwed glands.



### SINAMICS V20 basic inverters – Power components

Number and version of contacts		Rated data at 50 ... 60 Hz 380 ... 440 V		Part Number	Price	Part Number	Price
Main elements	Aux elements	P/ AC-23A kW	I <sub>u</sub> A				
3	--	7.5	16	3LD2013-0TK53	30.49	3LD2064-0TB53	27.58
		9.5	25	3LD2113-0TK53	33.80	3LD2164-0TB53	30.02
		11.5	32	3LD2213-0TK53	37.24	3LD2264-0TB53	35.52
		22	63	3LD2514-0TK53	44.65	3LD2565-0TB53	59.06
		37	100	3LD2714-0TK53	73.42	3LD2766-0TB53	134.27
3 + N		45	125	3LD2814-0TK53	91.28	3LD2866-0TB53	243.41
		7.5	16	3LD2013-1TL53	34.73	3LD2064-1TC53	40.28
		9.5	25	3LD2113-1TL53	38.63	3LD2164-1TC53	44.45
		11.5	32	3LD2213-1TL53	42.40	3LD2264-1TC53	50.14
		22	63	3LD2514-1TL53	53.78	3LD2565-1TC53	68.79
3 + N		37	100	3LD2714-0TK53	73.42	3LD2766-0TB53	134.27
				+1) 3LD9280-0C	15.35	+1) 3LD9280-0C	15.35
		45	125	3LD2814-0TK53	91.28	3LD2866-0TB53	243.41
				+1) 3LD9280-0C	15.35	+1) 3LD9280-0C	15.35

## Selection and ordering data




- Un: 230/400 AC V, 50-60 Hz, applicable in networks up to 250/440 V AC, 60 V DC per pole
- Standards IEC 60898, (VDE 0641 Part 11), IEC 60898
- Supplementary components can be retrofitted
- 70 mm mounting depth

## Characteristics C

General line protection, especially advantageous with higher inrush currents (lamps, motors, etc.).

## Characteristics D

Tripping range adapted to operating equipment involving significant pulse generation (transformers, solenoid valves).

	Version	In	MW	Characteristic C		Characteristic D	
		A		Part Number		Part Number	
Miniature circuit breakers				6,000 A		10,000 A	
	<b>1P, 230/400 V AC</b>	0.5	1	5SY6105-7	14.00	5SY4105-8	16.54
		1		5SY6101-7	14.00	5SY4101-8	16.54
		1.6		5SY6115-7	14.00	5SY4115-8	16.54
		2		5SY6102-7	14.00	5SY4102-8	16.54
		3		5SY6103-7	14.00	5SY4103-8	16.54
		4		5SY6104-7	13.11	5SY4104-8	16.20
		6		5SY6106-7	12.79	5SY4106-8	15.65
		8		5SY6108-7	11.69	5SY4108-8	14.55
		10		5SY6110-7	11.69	5SY4110-8	14.55
		13		5SY6113-7	11.69	5SY4113-8	14.55
		16		5SY6116-7	11.69	5SY4116-8	14.55
		20		5SY6120-7	11.69	5SY4120-8	14.55
		25		5SY6125-7	11.69	5SY4125-8	14.55
		32		5SY6132-7	11.69	5SY4132-8	14.55
		40		5SY6140-7	12.79	5SY4140-8	15.65
		50		5SY6150-7	13.11	5SY4150-8	16.20
		63		5SY6163-7	14.00	5SY4163-8	16.54
	<b>2P, 400 V AC</b>	0.5	2	5SY6205-7	38.86	5SY4205-8	47.40
		1		5SY6201-7	38.86	5SY4201-8	47.40
		1.6		5SY6215-7	38.86	5SY4215-8	47.40
		2		5SY6202-7	38.86	5SY4202-8	47.40
		3		5SY6203-7	38.86	5SY4203-8	47.40
		4		5SY6204-7	38.58	5SY4204-8	47.13
		6		5SY6206-7	36.66	5SY4206-8	44.93
		8		5SY6208-7	33.90	5SY4208-8	40.79
		10		5SY6210-7	33.90	5SY4210-8	40.79
		13		5SY6213-7	33.90	5SY4213-8	40.79
		16		5SY6216-7	33.90	5SY4216-8	40.79
		20		5SY6220-7	33.90	5SY4220-8	40.79
		25		5SY6225-7	33.90	5SY4225-8	40.79
		32		5SY6232-7	33.90	5SY4232-8	40.79
		40		5SY6240-7	36.66	5SY4240-8	44.93
		50		5SY6250-7	38.58	5SY4250-8	47.13
		63		5SY6263-7	38.86	5SY4263-8	47.40
	<b>3P, 400 V AC</b>	0.5	3	5SY6305-7	58.98	5SY4305-8	69.45
		1		5SY6301-7	58.98	5SY4301-8	69.45
		1.6		5SY6315-7	58.98	5SY4315-8	69.45
		2		5SY6302-7	58.98	5SY4302-8	69.45
		3		5SY6303-7	58.98	5SY4303-8	69.45
		4		5SY6304-7	56.77	5SY4304-8	66.70
		6		5SY6306-7	54.02	5SY4306-8	65.04
		8		5SY6308-7	50.44	5SY4308-8	61.18
		10		5SY6310-7	50.44	5SY4310-8	61.18
		13		5SY6313-7	50.44	5SY4313-8	61.18
		16		5SY6316-7	50.44	5SY4316-8	61.18
		20		5SY6320-7	50.44	5SY4320-8	61.18
		25		5SY6325-7	50.44	5SY4325-8	61.18
		32		5SY6332-7	50.44	5SY4332-8	61.18
		40		5SY6340-7	54.02	5SY4340-8	65.04
		50		5SY6350-7	56.77	5SY4350-8	66.70
		63		5SY6363-7	58.98	5SY4363-8	69.45

## Overview

- Can be individually retrofitted
- Mounting with factory-installed clips
- Short-circuit protection via miniature circuit-breakers or characteristic C and  $I_n = 6\text{ A}$  or gG 6 A fuses
- Broad range of applications thanks to the additional version for controlling programmable controllers (PLC) acc. to IEC 61131-2
- Connectable to instabus EIB and AS-Interface bus via binary inputs

- Max. contact load:

### NO contacts:

2 A, 400 V AC, AC-14  
 6 A, 230 V AC, AC-14  
 1 A, 220 V DC, DC-13  
 1 A, 110 V DC, DC-13  
 3 A, 60 V DC, DC-13  
 6 A, 24 V DC, DC-13


### NC contacts:

2 A, 400 V AC, AC-13  
 6 A, 230 V AC, AC-13  
 1 A, 220 V DC, DC-13  
 1 A, 110 V DC, DC-13  
 3 A, 60 V DC, DC-13  
 6 A, 24 V DC, DC-13

- Indication of the miniature circuit-breaker's switching state:  
 - AS: ON/OFF

## Selection and ordering data

### Auxiliary switches

	Version	MW	Part Number	Price
	1 NO + 1 NC	0.5	5ST3010	23.48
	2 NO	0.5	5ST3011	23.48

### Accessories for 5SY miniature circuit breakers

## Overview

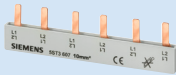
### Busbar system

- Acc. to DIN 57606 and DIN 57659
- Load for one-side/central infeed:  
 65 A/120 A for 16 mm<sup>2</sup>
- Pin-type connections
- Single and multi-phase
- Max. contact load:


- Cu 16 mm<sup>2</sup> fully insulated
- 18 mm lug spacing
- No additional connection terminal required for stranded connections up to 35 mm<sup>2</sup>
- Excellent accessibility of the feeder cables

## Selection and ordering data

### 5ST3 7 busbar systems, 16 mm<sup>2</sup>

	Version	Length	Part Number	Price
	Can be cut, without end caps 1-phase, angled, for MCB 1P	1 016	5ST3701	19.07
	2-phase, for MCB 2P		5ST3705	53.47
	3-phase, for MCB 3P		5ST3710	79.92

### End caps for 5ST3 7, can be cut

	Required to isolate the ends of cut-to-length busbars for 1-phase busbars			
	2-phase, for MCB 2P		5ST3748	0.83
	3-phase, for MCB 3P		5ST3750	1.31





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