

# SVS ENCAPSULATED COILS

## SYSTEM 05 - 19



### DESCRIPTION

SVS coils are available for armature tube diameters of 5, 7, 9, 13, 16 and 19 mm in various voltages and power levels.

### ON REQUEST

Non-standard coil voltages  
Higher ambient temperature range  
Non-standard version

### GENERAL SPECIFICATIONS

tube Ø in mm	coil type	B in mm	H in mm	L in mm	D in mm	electrical interface	protection class
5	A1G, A1I	10	14	14	4,7	clip-connector radial	IP30
5	A1H, A1K	10	14	14	4,7	clip-connector axial	IP30
5	A1E	10	14	14	4,7	strand 2-wire	IP65
7	B1C	15	26	21	6,6	EN 175301-803C (DIN 43650 C)	IP65
7	B1E	15	26	21	6,6	strand 2-wires	IP65
9	C1D, C2D	22	30	29	9	EN 175301-803 form B	IP65
9	C3A, C4A	30	30	36	9	EN 175301-803A (DIN 43650 A)	IP65
13	E1A, E4A, E5A	30	39	38	13	EN 175301-803A (DIN 43650 A)	IP65
13	E2A	35	37	45	13	EN 175301-803A (DIN 43650 A)	IP65
13	E3A	36	39	48	13	EN 175301-803A (DIN 43650 A)	IP65
13	E6A	52	41	54	13	EN 175301-803A (DIN 43650 A)	IP65
16	F1A, F2A	Ø39	50	45	16	EN 175301-803A (DIN 43650 A)	IP65
19	G1A	Ø46	61	54	19	EN 175301-803A (DIN 43650 A)	IP65



## DETAILED INFORMATION

General	
ambient temperature	-20°C to +50°C, higher acceptable ambient temperature range on request
fluid temperature	see specifications of the particular coil
material	winding: copper, temperature class H (180°C) magnetic plate: steel zinc plated encapsulation material: see specifications of the particular type
standard voltage	24 V DC, 24 V 50Hz, 230 V 50Hz
non-standard voltage on request	6 - 200 V DC, 12 - 250 V 50Hz, please note – minimum quantities
general duty cycle	100%, continuous operation unless stated otherwise
acceptable voltage tolerance	±10%
non-standard duty cycle	For coils with duty cycle < 100% the maximum duty cycle time is 2 min for systems 5, 7 and 9, respectively 3 min for systems 13, 16 and 19 according to VDE 0580.
protection class	IP65 according to DIN EN 60529 (DIN 40050) only with correctly mounted connector and profile seal.
non-standard version	please note – minimum quantities must be ordered for non-standard types

### Coils with interface according to DIN EN 175301-803 / (DIN 43650) / (ISO 4400)

tube Ø in mm	coil type	electrical interface	coil tem- perature classifica- tion	max. fluid tem- perature in °C	encap- sulation material	power consumption			
						direct current DC in W		Alt. current AC in VA	
						cold	warm	inrush	rated
5	A1GA	clip radial	F (155°C)	80	PA 6	1,3	1,15	-	-
5	A1IA	clip radial, LED, diode	F (155°C)	60	PA 6	1,3	1,15	-	-
5	A1HA	clip axial	F (155°C)	80	PA 6	1,3	1,15	-	-
5	A1KA	clip axial, LED, diode	F (155°C)	60	PA 6	1,3	1,15	-	-
5	A1EA	strand 300 mm	F (155°C)	100	PA 6	1,3	1,15	-	-
7	B1CA	EN 175301-803C (DIN 43650 C)	F (155°C)	130	PA 6	2,65	2,3	3,3	2,8
7	B1EA	strand 2-wire, length 300 mm	F (155°C)	130	PA 6	2,65	2,3	3,3	2,8
7	B1CH	EN 175301-803C (DIN 43650 C)	F (155°C)	130	Rynite	2,65	2,3	3,3	2,8
7	B1EH	strand 2-wire, length 300 mm	F (155°C)	130	Rynite	2,65	2,3	3,3	2,8
9	C1DA	EN 175301-803B (DIN 43650 B), industrial form	F (155°C)	130	PA 6	3	2,5	9	5
9	C2DA	EN 175301-803B (DIN 43650 B), industrial form	F (155°C)	130	PA 6	6,5	5	13	10
9	C3AA	EN 175301-803A (DIN 43650 A)	F (155°C)	130	PA 6	6,3	5,2	17	13
9	C4AA	EN 175301-803A (DIN 43650 A)	F (155°C)	130	PA 6	2	1,8	-	-



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tube Ø in mm	coil type	electrical interface	coil temperature classifica- tion	max. fluid tem- perature in °C	encap- sulation material	power consumption			
						direct current DC in W		Alt. current AC in VA	
						cold	warm	inrush	rated
13	E1AA	EN 175301-803A (DIN 43650 A)	F (155°C)	130	PA 6	12	9	32	14
13	E2AA	EN 175301-803A (DIN 43650 A)	F (155°C)	130	PA 6	17	12	42	19
13	E3AE	EN 175301-803A (DIN 43650 A)	H (180°C)	140	PAA	27	18	70	32
13	E4AA	EN 175301-803A (DIN 43650 A)	F (155°C)	130	PA 6	10	7,8	-	-
13	E5AA	EN 175301-803A (DIN 43650 A)	F (155°C)	130	PA 6	8	6,5	-	-
13	E6AG	EN 175301-803A (DIN 43650 A)	H (180°C)	140	PPS	16	11,5	-	-
16	F1AA	EN 175301-803A (DIN 43650 A)	F (155°C)	130	PA 6	27	19	70	35
16	F2AA	EN 175301-803A (DIN 43650 A)	F (155°C)	130	PA 6	12	9	-	-
19	G1AA	EN 175301-803A (DIN 43650 A)	F (155°C)	130	PA 6	32	23	80	40

## ORDER CODE

Coils								
order code	E	1	A	A	-	230	50	S..
Code decoding								
tube diameter	A = 5 mm, B = 7 mm, C = 9 mm, E = 13 mm, F = 16 mm, G = 19 mm							
coil power consumption	see specifications of the particular coil							
electrical interface	see table electrical interface							
encapsulation material	see table encapsulation material							
supply voltage	always 3-digits for voltage, for 24V: "024", for 230V: "230"							
supply frequency	always 2-digits for frequency, for 50Hz: "50", for DC: "00"							
non-standard version	only if existing							