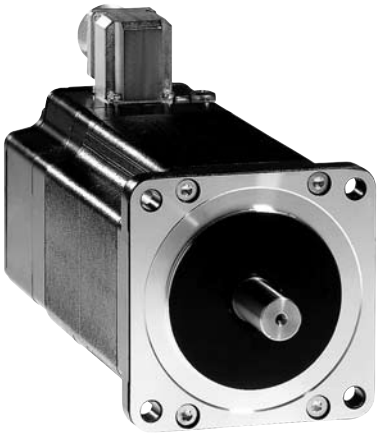
Lexium SD3 motion control
BRS3 3-phase stepper motors

BRS368 3-phase stepper motor

Stepper motor BRS368

Example:	B	R	S	3	6	8	W	1	3	0	A	B	A
Motor type **S** = stepper motor	B	R	**S**	3	6	8	W	1	3	0	A	B	A
Motor phases **3** = 3-phase stepper motor	B	R	S	**3**	6	8	W	1	3	0	A	B	A
Size **6** = 57.2 mm	B	R	S	3	**6**	8	W	1	3	0	A	B	A
Motor length **8** = 79 mm	B	R	S	3	6	**8**	W	1	3	0	A	B	A
Maximum voltage **W** = 230 V~ (325 V⎓)	B	R	S	3	6	8	**W**	1	3	0	A	B	A
Shaft version **0** = smooth shaft (Ø 6.35 mm, IP 41) **1** = smooth shaft (Ø 8 mm, IP 41)	B	R	S	3	6	8	W	**1**	3	0	A	B	A
Centring collar **3** = 38 mm	B	R	S	3	6	8	W	1	**3**	0	A	B	A
Position capture **0** = without encoder **1** = with encoder (1000 inc/rev)	B	R	S	3	6	8	W	1	3	**0**	A	B	A
Holding brake **A** = without holding brake **B** = with holding brake	B	R	S	3	6	8	W	1	3	0	**A**	B	A
Connection type **B** = terminal box **C** = connector	B	R	S	3	6	8	W	1	3	0	A	**B**	A
Second shaft **A** = without second shaft **B** = with second shaft	B	R	S	3	6	8	W	1	3	0	A	B	**A**



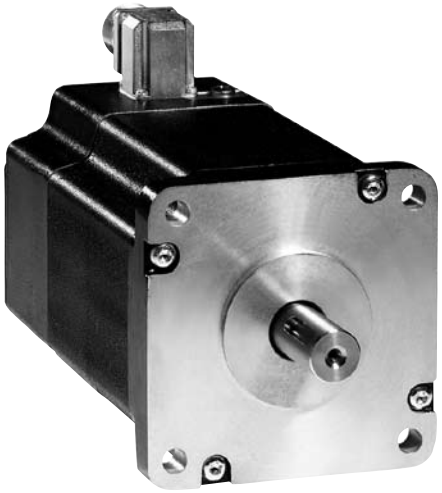
BRS39● 3-phase stepper motor

Stepper motor BRS39●

Example:	B	R	S	3	9	7	W	2	6	0	A	B	A
Motor type **S** = stepper motor	B	R	**S**	3	9	7	W	2	6	0	A	B	A
Motor phases **3** = 3-phase stepper motor	B	R	S	**3**	9	7	W	2	6	0	A	B	A
Size **9** = 85 mm	B	R	S	3	**9**	7	W	2	6	0	A	B	A
Motor length **7** = 68 mm **A** = 98 mm **B** = 128 mm	B	R	S	3	9	**7**	W	2	6	0	A	B	A
Maximum voltage **W** = 230 V~ (325 V⎓)	B	R	S	3	9	7	**W**	2	6	0	A	B	A
Shaft version *(1)* **2** = smooth shaft (Ø 9.5 mm, IP 41) **3** = smooth shaft (Ø 12 mm, IP 41) **4** = smooth shaft (Ø 14 mm, IP 41) **5** = woodruff key (Ø 9.5 mm, IP 41) **6** = woodruff key (Ø 12 mm, IP 41) **7** = woodruff key (Ø 14 mm, IP 41) **A** = smooth shaft (Ø 9.5 mm, IP 56) **B** = smooth shaft (Ø 12 mm, IP 56) **C** = smooth shaft (Ø 14 mm, IP 56) **K** = woodruff key (Ø 14 mm, IP 56) **L** = woodruff key (Ø 9.5 mm, IP 56) **M** = woodruff key (Ø 12 mm, IP 56)	B	R	S	3	9	7	W	**2**	6	0	A	B	A
Centring collar **6** = 60 mm **7** = 73 mm	B	R	S	3	9	7	W	2	**6**	0	A	B	A
Position capture **0** = without encoder **1** = with encoder (1000 Inc/rev)	B	R	S	3	9	7	W	2	6	**0**	A	B	A
Holding brake **A** = without holding brake **F** = with holding brake	B	R	S	3	9	7	W	2	6	0	**A**	B	A
Connection type **B** = terminal box **C** = connector	B	R	S	3	9	7	W	2	6	0	A	**B**	A
Second shaft **A** = without second shaft end **B** = with second shaft end	B	R	S	3	9	7	W	2	6	0	A	B	**A**

(1) Possible combinations of motor length and shaft version:
motor length **7** = 2, 3, 5, 6, A, B, K, L;
motor length **A** = 2, 3, 5, A, B, K, L;
motor length **B** = 4, 7, C, M

Lexium SD3 motion control
BRS3 3-phase stepper motors



BRS3A● 3-phase stepper motor

Stepper motor BRS3A●													
Example:	**B**	**R**	**S**	**3**	**A**	**C**	**W**	**8**	**5**	**0**	**A**	**B**	**A**
Motor type **S** = stepper motor	B	R	**S**	3	A	C	W	8	5	0	A	B	A
Motor phases **3** = 3-phase stepper motor	B	R	S	**3**	A	C	W	8	5	0	A	B	A
Size **A** = 110 mm	B	R	S	3	**A**	C	W	8	5	0	A	B	A
Motor length **C** = 180 mm **D** = 230 mm	B	R	S	3	A	**C**	W	8	5	0	A	B	A
Maximum voltage **W** = 230 V~ (325 V⎓)	B	R	S	3	A	C	**W**	8	5	0	A	B	A
Shaft version **8** = parallel key (Ø 19 mm, IP 41)	B	R	S	3	A	C	W	**8**	5	0	A	B	A
Centring collar **5** = 56 mm	B	R	S	3	A	C	W	8	**5**	0	A	B	A
Position capture **0** = without encoder **1** = with encoder (1000 Inc/rev)	B	R	S	3	A	C	W	8	5	**0**	A	B	A
Holding brake **A** = without holding brake **F** = with holding brake	B	R	S	3	A	C	W	8	5	0	**A**	B	A
Connection type **B** = terminal box **C** = connector	B	R	S	3	A	C	W	8	5	0	A	**B**	A
Second shaft **A** = without second shaft end **B** = with second shaft end	B	R	S	3	A	C	W	8	5	0	A	B	**A**

Type code

Example:	BRS	3	6	8	H	1	3	1	A	C	A
Product familie Brushless motors S = Stepper motor	**BRS**	3	6	8	H	1	3	1	A	C	A
Number of pole pairs 3	BRS	**3**	6	8	H	1	3	1	A	C	A
Size (flange) 6 = 57.2 mm	BRS	3	**6**	8	H	1	3	1	A	C	A
Length 4 = 42 mm 6 = 56 mm 8 = 79 mm	BRS	3	6	**8**	H	1	3	1	A	C	A
Winding H = 34 V_{AC} (48 V_{DC}) F = 34 V_{AC} (48 V_{DC}) N = 92 V_{AC} (130 V_{DC})	BRS	3	6	8	**H**	1	3	1	A	C	A
Shaft designfront* / Degree of protection: shaft, housing 0 = Smooth shaft 6.35 mm / IP41, IP56 (BRS364 and BRS366) 1 = Smooth shaft 8 mm / IP41, IP56 (BRS368) S = Customer specific	BRS	3	6	8	H	**1**	3	1	A	C	A
Centring collar 3 = 38 mm	BRS	3	6	8	H	1	**3**	1	A	C	A
Position capture 0 = Without encoder 1 = With encoder (1000 increments/resolution)	BRS	3	6		H	1	3	**1**	A	C	A
Holding brake A = Without brake F = With brake	BRS	3	6	8	H	1	3	1	**A**	C	A
Connection type A = Wires B = Terminal box C = Connector	BRS	3	6	8	H	1	3	1	A	**C**	A
Second shaft A = Without second shaft B = With second shaft	BRS	3	6	8	H	1	3	1	A	C	**A**

*** Note**: Please note the description of the possible motor types on page 38.

Type code

Example:	BRS	3	9	7	H	2	6	1	A	C	A
Product family Brushless motors S = Stepper motor	**BRS**	3	9	7	H	2	6	1	A	C	A
Number of pole pairs 3	BRS	**3**	9	7	H	2	6	1	A	C	A
Size (flange) 9 = 85 mm	BRS	3	**9**	7	H	2	6	1	A	C	A
Length 7 = 68 mm A = 98 mm B = 128 mm	BRS	3	9	**7**	H	2	6	1	A	C	A
Winding H = 34 V_{AC} (48 V_{DC}) F = 34 V_{AC} (48 V_{DC}) N = 92 V_{AC} (130 V_{DC})	BRS	3	9	7	**H**	2	6	1	A	C	A
Shaft designfront* / Degree of protection: shaft, housing 2 = Smooth shaft 9.5 mm / IP41, IP56 (BRS 397 und BRS 39A) 3 = Smooth shaft 12 mm / IP41, IP56 (BRS 397 und BRS 39A) 4 = Smooth shaft 14 mm / IP41, IP56 (BRS 39B) 5 = Woodruff key 9.5 mm / IP41, IP56 (BRS 397 und BRS 39A) 6 = Woodruff key 12 mm / IP41, IP56 (BRS 397 und BRS 39A) 7 = Woodruff key 14 mm / IP41, IP56 (BRS 39B) A = Smooth shaft 9.5 mm / IP56, IP56 (BRS 397 und BRS 39A) B = Smooth shaft 12 mm / IP56, IP56 (BRS 397 und BRS 39A) C = Smooth shaft 14 mm / IP56, IP56 (BRS 39B) K = Woodruff key 9.5 mm / IP56, IP56 (BRS 397 und BRS 39A) L = Woodruff key 12 mm / IP56, IP56 (BRS 397 und BRS 39A) M= Woodruff key 14 mm / IP56, IP56 (BRS 39B) S = Customer specific	BRS	3	9	7	H	**2**	6	1	A	C	A
Centring collar 6 = 60 mm 7 = 73 mm	BRS	3	9	7	H	2	**6**	1	A	C	A
Position capture 0 = Without encoder 1 = With encoder (1000 increments/resolution)	BRS	3	9	7	H	2	6	**1**	A	C	A
Holding brake A = Without brake F = With brake	BRS	3	9	7	H	2	6	1	**A**	C	A
Connection type A = Wires B = Terminal box C = Connector	BRS	3	9	7	H	2	6	1	A	**C**	A
Second shaft A = Without second shaft B = With second shaft	BRS	3	9	7	H	2	6	1	A	C	**A**

***Note**: Please note the description of the possible motor types on page 38.