



**Servomotors**  
for highest demands



# CATALOG

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## We supply the perfect servo motor for your project

We have been developing and producing high-quality servo motors for over 30 years. We supply our partners worldwide with customized electric motors for the highest requirements and in the best quality from Germany. ATS Antriebstechnik can supply you with precision electric drives for any challenge, whether as a one-off or in series production.

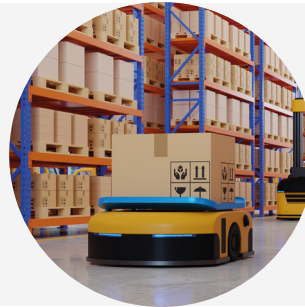


In addition to our ADS and NDS series, we are also happy to develop your desired motor based on our standard components. Please do not hesitate to contact us. We look forward to hearing from you.

### Dipl.-Ing. (Univ.) Hubert Schabmüller

Managing Director ATS Antriebstechnik GmbH





## Various industries worldwide benefit from our servo motors

Our special servo motor solutions are based on our ADS (new design) and NDS series. We also supply our motors in combination with gearboxes, brakes and cooling (air and fluid) as required. On request, we can also combine our servomotors with power electronics in cooperation with long-standing development partners.

- Brushless and maintenance-free servomotors
- Hollow shaft resolvers, optical and magnetic encoder systems
- Adaptation to special voltages (e.g. 24V, 48V)
- Standard protection class: IP 64; IP 65 etc. on request
- Attachment and installation of holding brake / incremental encoder / gearbox
- Use of external fan / fluid cooling
- Special mechanical designs, e.g. special shaft, end shield, etc.
- Adaptation to special speeds (up to 12,000 min<sup>-1</sup>)

**Do not hesitate to contact us. We look forward to your inquiry!**

Phone: +49 (0) 841 / 622 01

Fax: +49 (0) 841 / 622 03

Email: [ats@ats-antriebstechnik.de](mailto:ats@ats-antriebstechnik.de)

ATS Antriebstechnik GmbH

Bunsenstraße 21

GER-85053 Ingolstadt

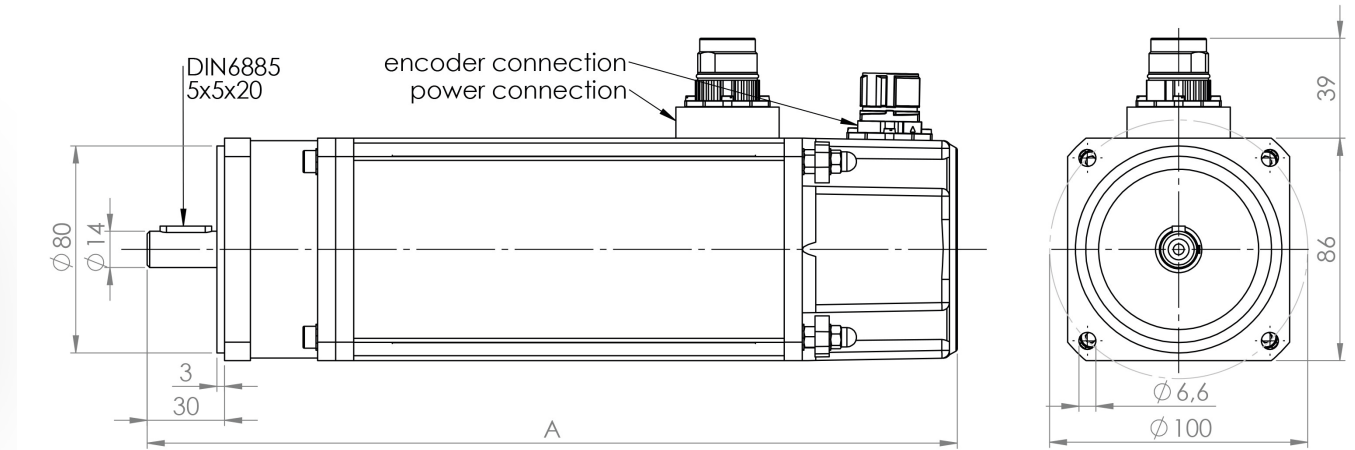
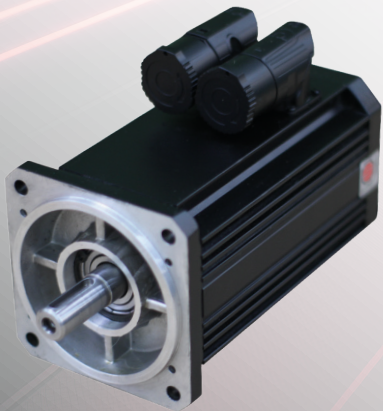




# NDS

## 045-S0-L2

DC link voltage                    560 V  
Terminal voltage                    = 415 V



	<b>n</b> [min <sup>-1</sup> ]	<b>M<sub>0</sub></b> [Nm]	<b>M<sub>n</sub></b> [Nm]	<b>I<sub>0</sub></b> [A]	<b>I<sub>n</sub></b> [A]	<b>k<sub>v</sub></b> [V/1000min <sup>-1</sup> ]	<b>k<sub>t</sub></b> [Nm/A]	<b>R<sub>k</sub></b> [Ω]	<b>L</b> [mH]	<b>J<sub>rot</sub></b> [kgcm <sup>2</sup> ]	<b>m</b> [kg]	<b>A</b> [mm]
045-S0	2000	0,8	0,8	0,50	0,50	55,4	1,59	138,30	288,6	0,56	3,0	234
045-M0	2000	1,7	1,5	0,86	0,75	69,4	1,99	64,19	209,3	0,94	3,7	254
045-L0	2000	2,2	2,2	1,01	1,01	76,2	2,18	39,59	48,9	1,34	4,5	274
045-L1	2000	2,9	2,9	1,33	1,33	95,9	2,18	25,30	85,6	1,73	5,3	294
045-L2	2000	3,5	3,5	1,54	1,54	79,2	2,27	20,18	68,1	2,12	6,1	314
045-S0	3000	0,8	0,7	0,63	0,55	44,4	1,27	88,59	172,5	0,56	3,0	234
045-M0	3000	1,4	1,4	0,96	0,96	51,1	1,46	34,79	107,8	0,94	3,7	254
045-L0	3000	2,1	2,0	1,42	1,35	51,6	1,48	18,17	56,5	1,34	4,5	274
045-L1	3000	2,8	2,6	1,86	1,73	52,4	1,50	12,07	39,3	1,73	5,3	294
045-L2	3000	3,3	3,3	2,16	2,16	53,3	1,53	9,13	29,7	2,12	6,1	314
045-S0	4000	0,7	0,5	0,68	0,48	36,1	1,03	58,46	109,4	0,56	3,0	234
045-M0	4000	1,4	1,3	1,25	1,16	39,1	1,12	20,35	61,4	0,94	3,7	254
045-L0	4000	2,1	1,8	1,83	1,56	40,2	1,15	10,99	33,4	1,34	4,5	274
045-L1	4000	2,8	2,1	2,39	1,79	41,0	1,17	7,37	23,5	1,73	5,3	294
045-L2	4000	3,5	2,9	2,98	2,47	41,0	1,17	5,10	17,3	2,12	6,1	314
045-S0	6000	0,7	0,5	0,95	0,68	26,0	0,73	30,28	54,3	0,56	3,0	234
045-M0	6000	1,4	0,9	1,79	1,15	27,3	0,78	9,95	29,2	0,94	3,7	254
045-L0	6000	2,1	1,7	2,63	2,13	27,9	0,80	5,29	15,7	1,34	4,5	274
045-L1	6000	2,8	1,4	3,51	1,75	27,9	0,80	3,41	10,6	1,73	5,3	294
045-L2	6000	3,4	1,1	4,24	1,37	28,0	0,80	2,52	7,9	2,12	6,1	314

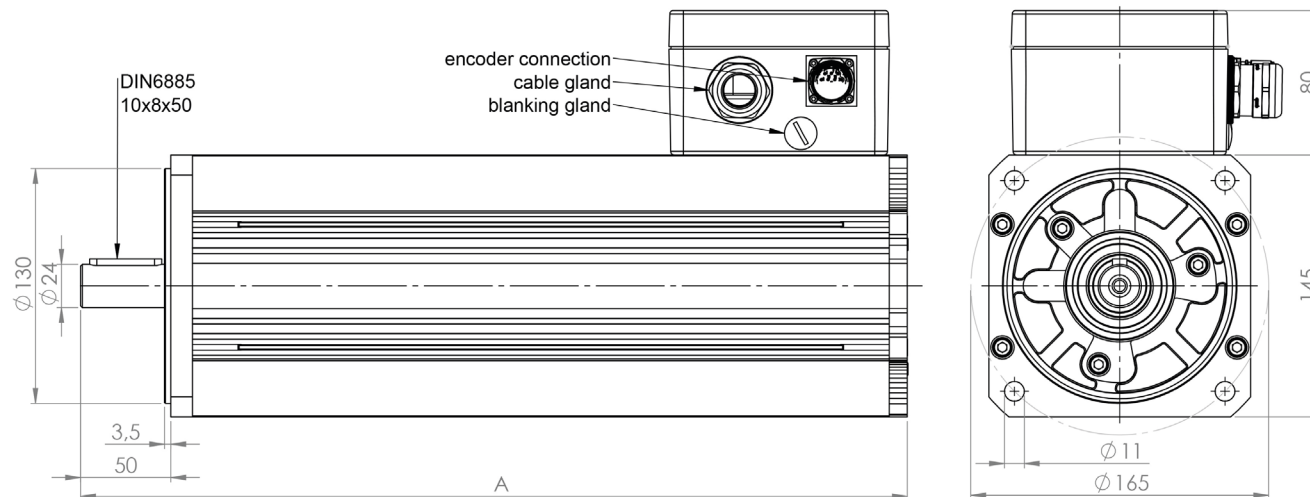
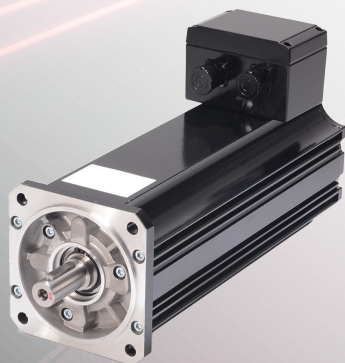




# ADS

## 071-K0-M1

DC link voltage = 560 V  
Terminal voltage = 415 V



	<b>n</b> [min <sup>-1</sup> ]	<b>M<sub>0</sub></b> [Nm]	<b>M<sub>n</sub></b> [Nm]	<b>I<sub>0</sub></b> [A]	<b>I<sub>n</sub></b> [A]	<b>k<sub>v</sub></b> [V/1000min <sup>-1</sup> ]	<b>k<sub>t</sub></b> [Nm/A]	<b>R<sub>k</sub></b> [Ω]	<b>L</b> [mH]	<b>J<sub>rot</sub></b> [kgcm <sup>2</sup> ]	<b>m</b> [kg]	<b>A</b> [mm]
071-K0	2000	15,1	13,2	7,2	6,5	74,0	2,12	2,85	20,7	25,9	17,8	358
071-K1	2000	18,2	15,8	8,6	7,7	74,0	2,12	2,17	17,2	31,1	19,4	378
071-S0	2000	21,0	18,2	9,7	8,6	76,0	2,18	1,68	15,4	36,3	21,0	398
071-S1	2000	24,2	20,6	11,3	9,8	75,0	2,15	1,37	13,1	41,5	22,6	418
071-M0	2000	27,1	23,0	12,6	11,0	75,5	2,16	1,18	11,8	46,7	24,2	438
071-M1	2000	30,3	25,8	14,3	12,3	74,0	2,12	0,99	9,59	51,9	25,8	458
071-K0	3000	15,1	12,1	10,3	8,7	51,8	1,48	1,40	10,0	25,9	17,8	358
071-K1	3000	18,2	14,3	12,7	10,5	50,3	1,44	1,01	7,8	31,1	19,4	378
071-S0	3000	21,0	16,1	14,3	11,5	51,8	1,48	0,78	7,1	36,3	21,0	398
071-S1	3000	24,2	18,2	16,5	13,0	51,3	1,47	0,64	6,1	41,5	22,6	418
071-M0	3000	27,1	20,0	17,8	13,7	53,3	1,53	0,59	5,8	46,7	24,2	438
071-M1	3000	30,3	22,1	20,9	15,9	51,0	1,46	0,47	4,5	51,9	25,8	458
071-K0	4000	15,1	10,2	13,5	9,8	39,5	1,13	0,81	5,7	25,9	17,8	358
071-K1	4000	18,2	11,9	16,6	11,7	38,5	1,10	0,59	4,5	31,1	19,4	378
071-S0	4000	21,0	13,1	18,9	12,7	39,1	1,12	0,45	4,0	36,3	21,0	398
071-S1	4000	24,2	14,8	21,6	14,1	39,5	1,13	0,39	3,6	41,5	22,6	418
071-M0	4000	27,1	15,9	22,9	14,4	41,4	1,19	0,36	3,5	46,7	24,2	438
071-M1	4000	30,3	17,8	27,0	17,0	39,5	1,13	0,28	2,7	51,9	25,8	458





# ADS

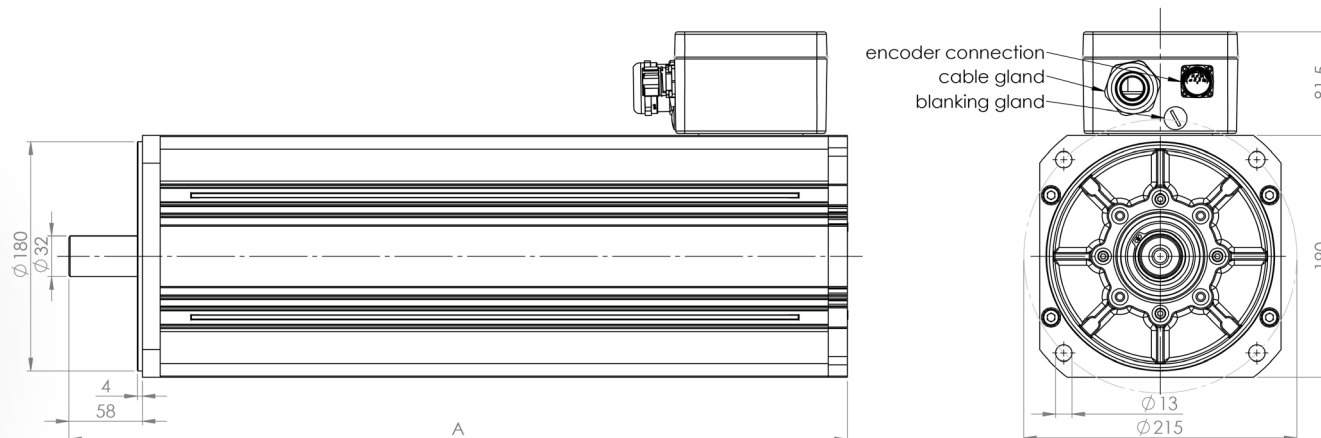
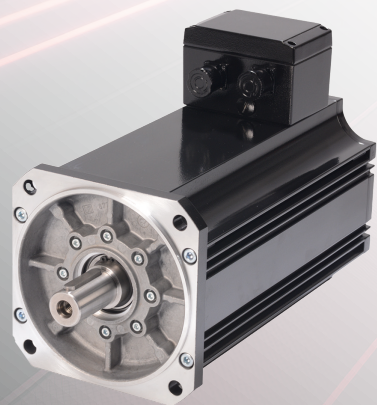
## 100-K0-L1

DC link voltage

560 V

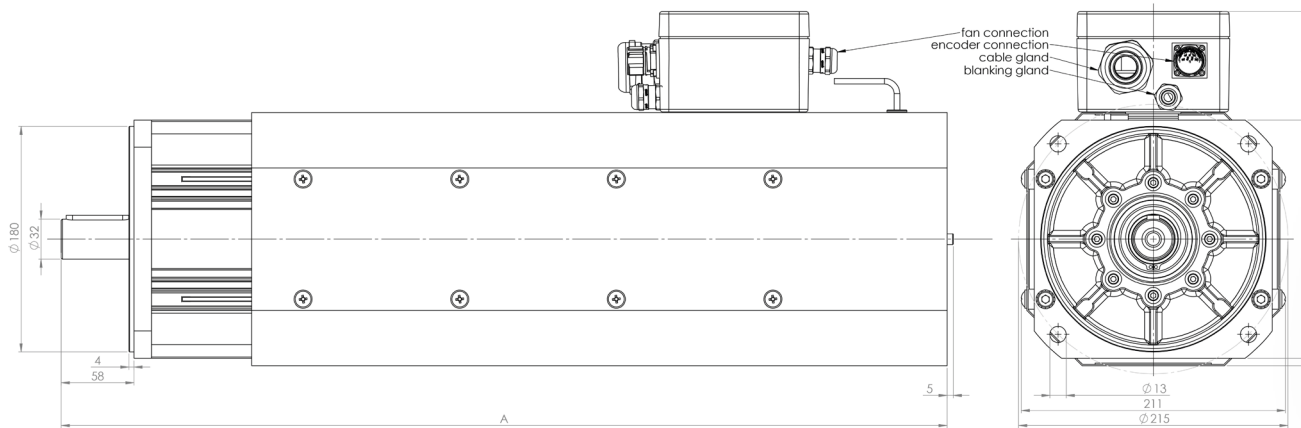
Terminal voltage

= 415 V



	<b>n</b> [min <sup>-1</sup> ]	<b>M<sub>0</sub></b> [Nm]	<b>M<sub>n</sub></b> [Nm]	<b>I<sub>0</sub></b> [A]	<b>I<sub>n</sub></b> [A]	<b>k<sub>v</sub></b> [V/1000min <sup>-1</sup> ]	<b>k<sub>t</sub></b> [Nm/A]	<b>R<sub>k</sub></b> [Ω]	<b>L</b> [mH]	<b>J<sub>rot</sub></b> [kgcm <sup>2</sup> ]	<b>m</b> [kg]	<b>A</b> [mm]
100-K0	1200	39,4	36,0	12,0	11,2	114,1	3,27	1,486	27,1	96,4	31,5	403
100 K1	1200	46,9	42,2	14,2	13,0	117,2	3,36	1,134	22,7	113,6	36,5	433
100-S0	1200	54,2	48,4	16,2	14,7	116,9	3,35	0,856	18,4	130,8	41,5	463
100 S1	1200	61,5	54,9	18,6	16,9	114,2	3,27	0,675	15,3	147,9	46,5	493
100-M0	1200	68,8	61,4	20,5	18,6	117,3	3,36	0,565	13,4	165,1	51,5	523
100 M1	1200	76,1	67,1	23,1	20,7	116,2	3,33	0,502	12,3	182,3	56,5	553
100-L0	1200	83,4	72,9	26,4	23,5	110,3	3,16	0,434	10,9	199,4	61,5	583
100 L1	1200	90,5	78,4	27,4	24,2	115,9	3,32	0,387	10,0	216,6	66,5	613
100-K0	2000	39,4	33,3	18,8	16,2	73,3	2,10	0,614	10,9	96,4	31,5	403
100 K1	2000	46,9	38,8	23,5	18,8	71,4	2,04	0,420	8,3	113,6	36,5	433
100-S0	2000	54,2	44,5	25,8	21,6	73,3	2,10	0,342	7,2	130,8	41,5	463
100 S1	2000	61,5	49,7	30,8	24,1	71,4	2,04	0,264	5,9	147,9	46,5	493
100-M0	2000	68,8	54,9	35,3	28,8	68,1	1,95	0,217	5,0	165,1	51,5	523
100 M1	2000	76,1	59,4	38,1	28,2	73,4	2,10	0,200	4,8	182,3	56,5	553
100-L0	2000	83,4	63,7	42,8	32,4	68,8	1,97	0,166	4,1	199,4	61,5	583
100 L1	2000	90,5	67,9	44,4	33,3	71,0	2,04	0,146	3,7	216,6	66,5	613
100-K0	3000	39,4	30,3	26,3	20,3	52,4	1,50	0,320	5,6	96,4	31,5	403
100 K1	3000	46,9	33,2	31,3	22,7	52,7	1,51	0,229	4,4	113,6	36,5	433
100-S0	3000	54,2	36,1	34,7	23,8	54,5	1,56	0,192	4,0	130,8	41,5	463
100 S1	3000	61,5	38,6	41,0	26,6	52,3	1,50	0,142	3,1	147,9	46,5	493
100-M0	3000	68,8	41,0	48,1	29,7	49,9	1,43	0,116	2,7	165,1	51,5	523
100 M1	3000	76,1	43,6	50,7	30,1	52,0	1,49	0,101	2,4	182,3	56,5	553
100-L0	3000	83,4	46,2	54,9	31,5	53,1	1,52	0,096	2,4	199,4	61,5	583
100 L1	3000	90,5	48,6	60,3	33,7	52,3	1,50	0,079	2,0	216,6	66,5	613



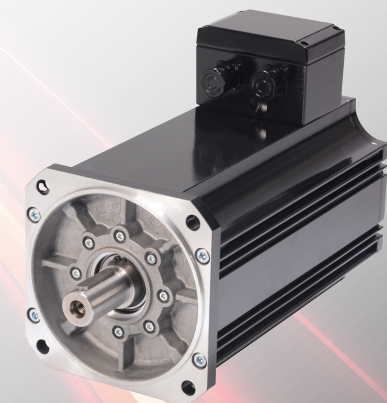


# ADS

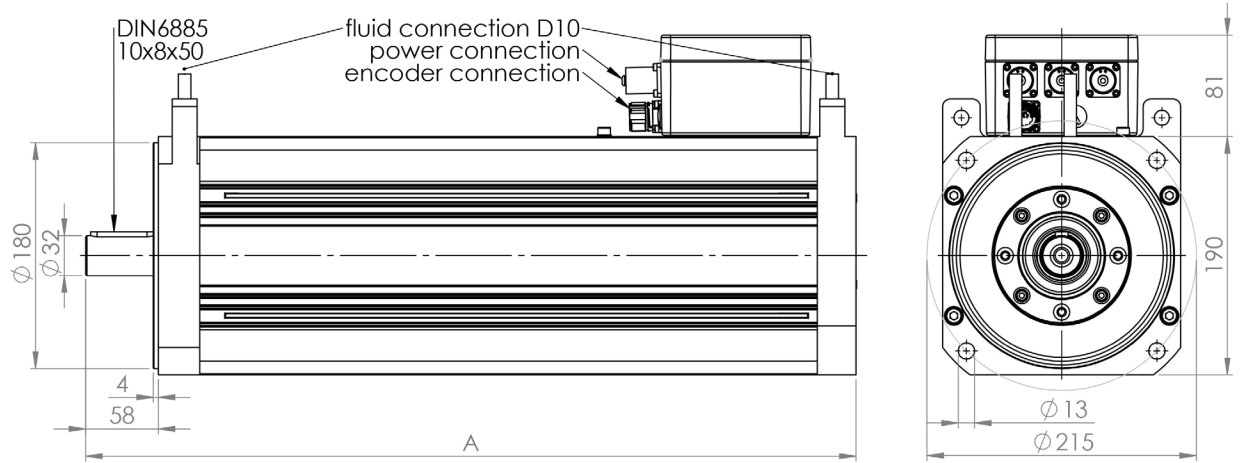
## 100-K0-L1 with separate fan

DC link voltage 560 V  
Terminal voltage = 415 V

	<b>n</b> [min <sup>-1</sup> ]	<b>M<sub>0</sub></b> [Nm]	<b>M<sub>n</sub></b> [Nm]	<b>I<sub>0</sub></b> [A]	<b>I<sub>n</sub></b> [A]	<b>k<sub>v</sub></b> [V/1000min <sup>-1</sup> ]	<b>k<sub>t</sub></b> [Nm/A]	<b>R<sub>k</sub></b> [Ω]	<b>L</b> [mH]	<b>J<sub>rot</sub></b> [kgcm <sup>2</sup> ]	<b>m</b> [kg]	<b>A</b> [mm]
100-K0	1200	55,2	51,3	16,9	15,9	114,1	3,27	1,486	27,1	96,4	34,6	497
100 K1	1200	65,7	61,9	19,6	18,7	117,2	3,36	1,134	22,7	113,6	39,6	527
100-S0	1200	76,0	72,3	22,7	21,8	116,9	3,35	0,856	18,4	130,8	44,6	557
100 S1	1200	86,1	82,1	26,4	25,4	114,2	3,27	0,675	15,3	147,9	49,6	587
100-M0	1200	96,3	91,4	28,7	27,5	117,3	3,36	0,565	13,4	165,1	54,6	617
100 M1	1200	106,5	100,8	32,0	30,6	116,2	3,33	0,502	12,3	182,3	59,6	647
100-L0	1200	116,7	109,4	37,0	35,1	110,3	3,16	0,434	10,9	199,4	64,6	677
100 L1	1200	126,5	120,0	38,2	36,6	115,9	3,32	0,387	10,0	216,6	69,6	707
100-K0	2000	55,2	49,0	26,3	23,7	73,3	2,10	0,614	10,9	96,4	34,6	497
100 K1	2000	65,7	58,0	32,3	28,7	71,4	2,04	0,420	8,3	113,6	39,6	527
100-S0	2000	76,0	69,4	36,2	33,5	73,3	2,10	0,342	7,2	130,8	44,6	557
100 S1	2000	86,1	77,5	42,3	38,5	71,4	2,04	0,264	5,9	147,9	49,6	587
100-M0	2000	96,3	83,5	49,4	43,5	68,1	1,95	0,217	5,0	165,1	54,6	617
100 M1	2000	106,5	92,6	50,8	44,7	73,4	2,10	0,200	4,8	182,3	59,6	647
100-L0	2000	116,7	101,4	59,3	52,2	68,8	1,97	0,166	4,1	199,4	64,6	677
100 L1	2000	126,5	111,0	62,1	55,2	71,0	2,04	0,146	3,7	216,6	69,6	707
100-K0	3000	55,2	45,0	36,8	30,6	52,4	1,50	0,320	5,6	96,4	34,6	497
100 K1	3000	65,7	52,3	43,6	35,4	52,7	1,51	0,229	4,4	113,6	39,6	527
100-S0	3000	76,0	62,0	48,8	40,5	54,5	1,56	0,192	4,0	130,8	44,6	557
100 S1	3000	86,1	67,4	57,5	45,8	52,3	1,50	0,142	3,1	147,9	49,6	587
100-M0	3000	96,3	72,8	67,4	51,9	49,9	1,43	0,116	2,7	165,1	54,6	617
100 M1	3000	106,5	78,3	71,5	53,6	52,0	1,49	0,101	2,4	182,3	59,6	647
100-L0	3000	116,7	87,9	76,8	58,9	53,1	1,52	0,096	2,4	199,4	64,6	677
100 L1	3000	126,5	94,7	84,4	64,4	52,3	1,50	0,079	2,0	216,6	69,6	707

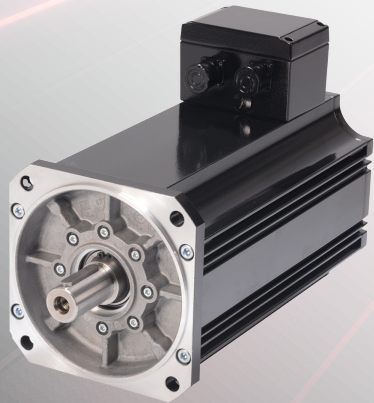


# ADS



## 100-K0-L1 with water-cooled end shield

DC link voltage = 560 V  
Terminal voltage = 415 V



	<b>n</b> [min <sup>-1</sup> ]	<b>M<sub>0</sub></b> [Nm]	<b>M<sub>n</sub></b> [Nm]	<b>I<sub>0</sub></b> [A]	<b>I<sub>n</sub></b> [A]	<b>k<sub>v</sub></b> [V/1000min <sup>-1</sup> ]	<b>k<sub>t</sub></b> [Nm/A]	<b>R<sub>k</sub></b> [Ω]	<b>L</b> [mH]	<b>J<sub>rot</sub></b> [kgcm <sup>2</sup> ]	<b>m</b> [kg]	<b>A</b> [mm]
100-K0	1200	55,2	51,3	16,9	15,9	114,1	3,27	1,486	27,1	96,4	34,6	405
100 K1	1200	65,7	61,9	19,6	18,7	117,2	3,36	1,134	22,7	113,6	39,6	435
100-S0	1200	76,0	72,3	22,7	21,8	116,9	3,35	0,856	18,4	130,8	44,6	465
100 S1	1200	86,1	82,1	26,4	25,4	114,2	3,27	0,675	15,3	147,9	49,6	495
100-M0	1200	96,3	91,4	28,7	27,5	117,3	3,36	0,565	13,4	165,1	54,6	525
100 M1	1200	106,5	100,8	32,0	30,6	116,2	3,33	0,502	12,3	182,3	59,6	555
100-L0	1200	116,7	109,4	37,0	35,1	110,3	3,16	0,434	10,9	199,4	64,6	585
100 L1	1200	126,5	120,0	38,2	36,6	115,9	3,32	0,387	10,0	216,6	69,6	615
100-K0	2000	55,2	49,0	26,3	23,7	73,3	2,10	0,614	10,9	96,4	34,6	405
100 K1	2000	65,7	58,0	32,3	28,7	71,4	2,04	0,420	8,3	113,6	39,6	435
100-S0	2000	76,0	69,4	36,2	33,5	73,3	2,10	0,342	7,2	130,8	44,6	465
100 S1	2000	86,1	77,5	42,3	38,5	71,4	2,04	0,264	5,9	147,9	49,6	495
100-M0	2000	96,3	83,5	49,4	43,5	68,1	1,95	0,217	5,0	165,1	54,6	525
100 M1	2000	106,5	92,6	50,8	44,7	73,4	2,10	0,200	4,8	182,3	59,6	555
100-L0	2000	116,7	101,4	59,3	52,2	68,8	1,97	0,166	4,1	199,4	64,6	585
100 L1	2000	126,5	111,0	62,1	55,2	71,0	2,04	0,146	3,7	216,6	69,6	615
100-K0	3000	55,2	45,0	36,8	30,6	52,4	1,50	0,320	5,6	96,4	34,6	405
100 K1	3000	65,7	52,3	43,6	35,4	52,7	1,51	0,229	4,4	113,6	39,6	435
100-S0	3000	76,0	62,0	48,8	40,5	54,5	1,56	0,192	4,0	130,8	44,6	465
100 S1	3000	86,1	67,4	57,5	45,8	52,3	1,50	0,142	3,1	147,9	49,6	495
100-M0	3000	96,3	72,8	67,4	51,9	49,9	1,43	0,116	2,7	165,1	54,6	525
100 M1	3000	106,5	78,3	71,5	53,6	52,0	1,49	0,101	2,4	182,3	59,6	555
100-L0	3000	116,7	87,9	76,8	58,9	53,1	1,52	0,096	2,4	199,4	64,6	585
100 L1	3000	126,5	94,7	84,4	64,4	52,3	1,50	0,079	2,0	216,6	69,6	615





## Options

**A**

### Gearbox

from various manufacturers, e.g: Alpha, Eisele, Neugart, Stöber  
Direct cultivation possible

**C**

### Holding brakes

from various manufacturers, e.g:  
KEB Automation, Kendrion Binder

**E**

### Special shafts

- Shaft end
- Hollow shafts
- Shaft end A-side without keyway
- Tothing

**H**

### Protection class IP 65

Rotary shaft seal

**B**

### Encoder systems

from various manufacturers, e.g:  
Heidenhain, Sick, Tamagawa

**D**

### Forced cooling fan

24V version, 230V version

**F**

### Special speeds

up to 12 000 min<sup>-1</sup>

**G**

### Tropical protection

e.g. for the offshore sector

**I**

### Precision Plus

Flange and shaft dimensions with reduced tolerances

## Servo controller

As a motor specialist, ATS Antriebstechnik GmbH does not develop and manufacture the control electronics required for servo motors. Instead, ATS strives to optimally adapt the winding of each motor to the servo controller required by the customer.

On request, however, it is of course also possible to supply the complete drive package (servo motor and servo controller), as there is very close contact with various electronics manufacturers. The following companies can be mentioned as examples:

- ARADEX AG
- ESR Pollmeier GmbH & Co
- KEBA Group AG
- Metronix Meßgeräte und Elektronik GmbH
- Unitek Industrie Elektronik GmbH
- ZAPI Group

The adaptation of ATS three-phase AC servomotors to the servo controllers of the above manufacturers has already proven its worth in countless applications.



# Holding brakes



## Mechanical brakes

The three-phase servomotors specified in the list can optionally be equipped with a holding brake.

Please note: Polarity of the connections, brakes may only be operated with smoothed DC voltage.

Choice of holding brakes:

<i>Motor type</i>	<i>possible brake type</i>
NDS 045 S0 - L2	a
NDS 056 S0 - M0	c, d
NDS 056 M1 - L1	d
ADS 071 K0 – M1	i
ADS 100 K0 – L0	l

	<b>a</b>	<b>c</b>	<b>d</b>	<b>i</b>	<b>l</b>
Holding torque (Nm)	3	7	12	28	80
Moment of inertia (kgcm <sup>2</sup> )	0,15	1,1	1,0	13,5	30,0
Services (W)	10	14	18	22,3	32
Weight (kg)	0,3	0,65	0,65	2,4	3,8

**We are happy to help you find the perfect motor for your application.**



## Important

The motor data given on the pages refer to the corresponding DC link voltages.

**The tolerance for  $k_v / k_t / R_k$  is up to +/- 10 %**

It should be expressly noted that the specified motor data can only be assumed to be approximate values, as they are heavily dependent on the servo controller used in each case (even with the same DC link voltage!).

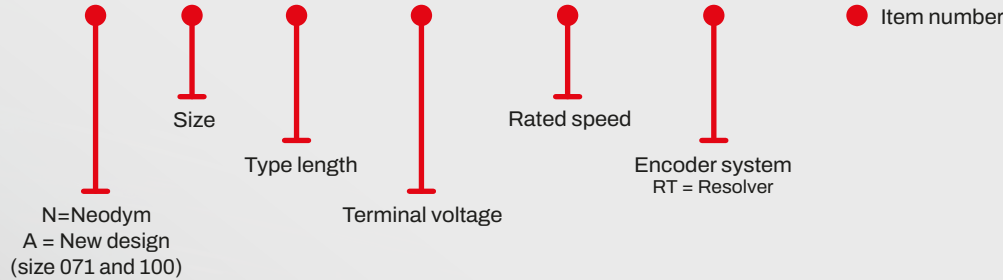
For this reason, we would like to recommend that you contact us if you have a corresponding requirement and ask to what extent a particular motor is correct or over- or undersized when used with the servo controller you have selected. We look forward to your inquiry.

**M.Sc. Florian Schabmüller**  
Assistant to the management

Phone: +49 (0) 841 / 622 01  
Email: [ats@ats-antriebstechnik.de](mailto:ats@ats-antriebstechnik.de)

# General explanations

**N/ADS 056 - S1 - 415 - 2000 - RT XXX-XXXX**



## Begriffsdefinition

$M_0$ [ Nm ]	= Standstill torque
$I_0$ [ A ]	= Standstill current related to speed 0 [ $\text{min}^{-1}$ ]
$M_n$ [ Nm ]	= Rated torque at 100 % duty cycle
$I_n$ [ A ]	= Rated current in relation to rated speed
$n$ [ $\text{min}^{-1}$ ]	= Rated speed
$P_n$ [ kW ]	= Power in relation to rated speed
$k_v$ [ $\text{V}_{\text{eff}} / 1000\text{min}^{-1}$ ]	= Voltage constant (phase / phase)
$k_t$ [ Nm / A ]	= Torque constant
$R_k$ [ $\Omega$ ]	= Cold resistance (phase / phase)

**Standstill torque** The standstill torque  $M_0$  can be delivered for an unlimited time at  $n = 0 \text{ min}^{-1}$  for an unlimited time. The motor consumes the current  $I_0$ .

**Rated current - Rated torque** The rated current is the value of the current that the motor draws at rated speed and rated torque (at 100 % duty cycle). The torque can be delivered over the entire control range  $n = 0 \text{ min}^{-1}$  to  $n = \text{rated speed}$ .

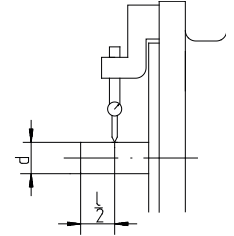
**Peak current  $I_s$**  The peak current refers to the motor that is not additionally cooled and should not exceed 4 times the standstill current. The actual peak current is determined by the maximum current of the servo controller used.

**Stator winding** DThree-phase winding with internally switched star point (standard)  
Standard version Insulation class „F“ according to DIN57530, part 1 with 3 temperature monitoring: 155°C PTC thermistor (standard)  
Alternative: Klixon / NC contact / PT100

# Dimensional tolerances

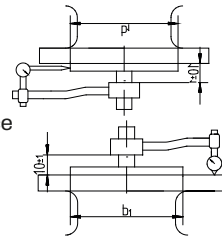
## Concentricity of the shaft end DIN 42955-12/81

Diameter of the cylindrical shaft end	Concentricity tolerance	
	N	R
d	(normal)	(reduced)
up to 10	0,030	0,015
over 10 to 18	0,035	0,018
over 18 to 30	0,040	0,021
over 30 to 50	0,050	0,025



## Coaxiality and axial run-out of the mounting flange DIN 42955 page 2

Mounting flange Centering diameter	Coaxiality and axial run-out tolerance	
	N	R
b1	(normal)	(reduced)
40 to 100	0,08	0,04
over 100 to 230	0,10	0,05



**Motor orders without tolerance specifications are supplied with normal tolerance (N).**

## Shaft end - Materials

Motor shafts	Ck 60 (or comparable)
Fit up to	50 mm ISO fit k6
Parallel key	DIN 6885-Sheet 1-Form A
Centering	DIN 332-sheet 1 or sheet 2

## Balancing

Dynamic with inserted half feather key according to Vibration severity level R (reduced) according to DIN ISO 2373. Vibration severity level S (special) is available as an option.



# Mechanical design

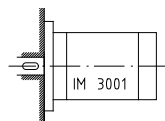
## Types of construction

In accordance with DIN IEC 34, Part 7: Three-phase servomotors are supplied in the basic design IM B5. These motors can be used in the derived designs IM V1 or IM V3 without modification.

### Abbreviation

Code I      Code II

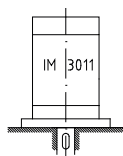
**IM B 5**      **IM 3001**



### Explanation

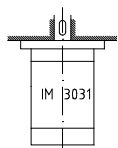
2 end shields, without feet  
Mounting flange,  
Form A on the drive side

**IM V 1**      **IM 3011**



2 end shields, without feet  
Mounting flange,  
Form A on the drive side,  
Shaft and flange facing downwards

**IM V 3**      **IM 3031**



2 end shields, without feet  
Mounting flange,  
Form A on the drive side,  
shaft and flange facing upwards

## Protection class according to DIN IEC 34, part 5/ VDE 0530

Our three-phase servomotors are supplied with protection class IP 64 / IP 65. The IP 64 degree of protection does not apply to the shaft bushing for these motors. A-side shaft feed-through - oil-tight for gearbox mounting possible. With protection class IP 65, a shaft seal is generally used and the mechanical joints of the motor parts are additionally sealed.

**Housing**      Sizes 045, 056, 071, 100 and 160:

Aluminum alloy

**Bearing plates**      Sizes 045, 056, 071, 100 und 160:

Aluminum or cast iron

### Contact us

Phone: +49 (0) 841 / 622 01

Fax:    +49 (0) 841 / 622 03

Email: [ats@ats-antriebstechnik.de](mailto:ats@ats-antriebstechnik.de)

### Address

Bunsenstraße 21  
85053 Ingolstadt  
Germany

### Managing Director

Dipl.-Ing. (TU) Hubert Schabmüller



More information

[www.ats-antriebstechnik.de](http://www.ats-antriebstechnik.de)



### **E-motor development**

Our company specialises in developing customised servo motors. Careful design ensures the efficiency and reliability of our motors, making seamless integration possible.



### **Manufacture servomotor**

ATS Antriebstechnik manufactures and supplies you with electric machines to the highest quality standards in accordance with DIN EN ISO 9001:2015. In addition, we can manufacture customised servo motors for you very cost-effectively.



### **Motor repair**

Our servo motors are brushless and therefore maintenance-free. In the event of a defect or problems, you can rely on our decades of experience as a medium-sized company on the international market.

You can find more information at

**[www.ats-antriebstechnik.de](http://www.ats-antriebstechnik.de)**

Bunsenstr  e 21 | 85053 Ingolstadt | Germany