



DSC2 MOTORS

Extremely compact and powerful – the new DSC2 motor generation in six lengths

The DSC2 motors cover a speed range from 1,000 to 5,000 rpm. Compared to other servo motors, they are up to 15 percent more compact.

DSC2 045-100

Compact Servo Motors

The DSC2 motors cover a speed range from 1,000 to 5,000 rpm. Compared to conventional servo motors, they are up to 15 percent more compact. A wide variety of cooling options, connections, gears, brakes and encoders create application-specific and flexible motor solutions. The low dead weight and minimal dimensions make the DSC2 a good solution for moving axes. The minimal cogging torque ensures precise positioning and high control quality. The advantage: precision in the process is increased. The motor also has a low ${\rm CO}_2$ footprint due to the reduced use of materials.

- Cooling options: uncooled, air-cooled, water-cooled
- Encoders: Resolver, Hiperface DSL, Hiperface, EnDat 2.2
- Optionally with brake
- Single cable technology







HIGHEST PRECISION



INCREASED DYNAMICS



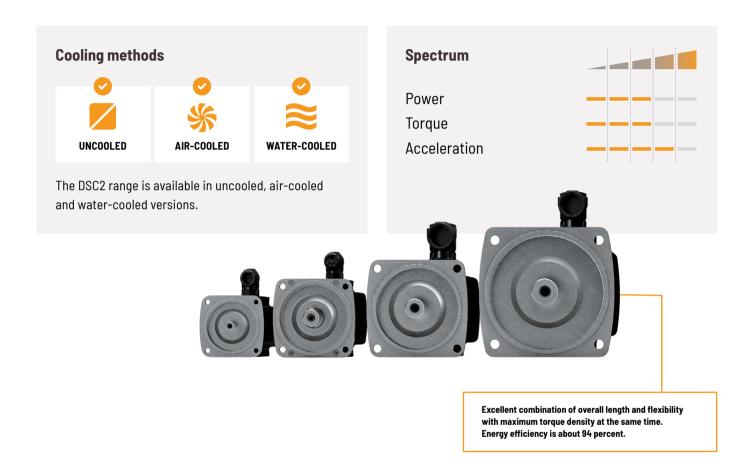
HIGH ENERGY EFFICIENCY



HIGH SCALABILITY

- ✓ Permanent magnet synchronous servo motors
- Compact type of construction with high power density
- Degree of protection up to IP 65 regardless of the cooling method
- ✓ Main connection via rotatable plug or terminal box
- ✓ Single cable technology available
- Very good concentricity properties

- ✓ Smooth housing surface not susceptible to dirt
- ✓ Slim, integrated housing design
- High overload capability
- Encoder options:Resolver, Hiperface DSL, Hiperface, EnDAT 2.2
- All types optionally with brake



DSC2 045-100 — Technical data

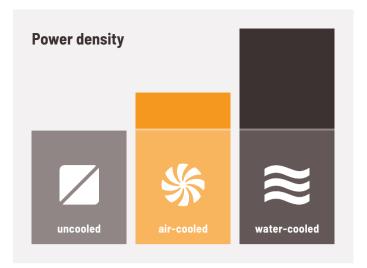
Туре	P _N		n _N	J		M _o		M _{0 MAX}	
	[kW]	[hp]	[min ⁻¹]	[kgcm ²]	[lb in ²]	[Nm]	[lbf ft]	[Nm]	[lbf ft]
DSC2-045 *	*	*	*	*	*	*	*	*	*
DSC2-056 *	*	*	*	*	*	*	*	*	*
DSC2-071	1.21 - 36	1.62 - 48	1000-5000	9.5-48.9	3.2 - 16.7	12.6-120	9.3-88.5	25 - 170	18.4 - 125
DSC2-100 *	*	*	*	*	*	*	*	*	*

^{*)} in preparation

Cooling options

The DSC2 range is available in uncooled, air-cooled and water-cooled versions. The most compact variant of the DSC2 is made possible by the water cooling concept.

The active cooling increases the power density. In addition, close installation of several servo motors is possible without any problems due to the good heat dissipation. This saves space in the machine and is a plus point especially for applications with many axes.





Encoder interfaces

We work with numerous manufacturers and offer analog, digital and reliable rotary encoder systems. These differ, among other things, regarding their accuracy. Our drive experts advise you on the different variants depending on your requirements. The range extends from resolver to Sick to Heidenhain encoders with their different protocols.

Areas of application

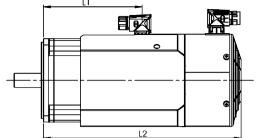
- Plastics machines
- Textile machines
- Robotics
- Packaging machines
- Printing machines
- Metalworking machines
- Environmental and recycling technology
- Medical technology and pharmaceuticals

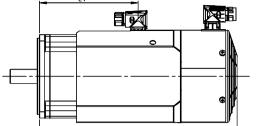






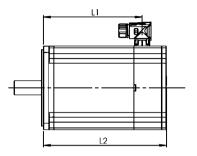






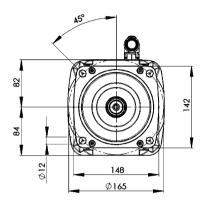
Version with fan

Motorbaulängen motorsize	L1	L2
DSC2-071 AA	136	305
DSC2-071 BB	168	337
DSC2-071 CC	200	369
DSC2-071 DD	232	401
DSC2-071 EE	264	433
DSC2-071 FF	296	465



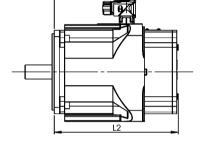
Version uncooled

Motorbaulängen	L1	L2
motorsize		
DSC2-071 AA	136	178
DSC2-071 BB	168	210
DSC2-071 CC	200	242
DSC2-071 DD	232	274
DSC2-071 EE	264	306
DSC2-071 FF	296	338





Motorbaulängen	L1	L2
motorsize		
DSC2-071 AA	91	179
DSC2-071 BB	123	211
DSC2-071 CC	155	243
DSC2-071 DD	187	275
DSC2-071 EE	219	307
DSC2-071 FF	251	339



Type code

	DSC2-				
--	-------	--	--	--	--

Overall size	045, 056, 071, 100	
Overall length	AA FF	
Degree of protection	IP 64 , IP 65	
Cooling type	U - uncooled, O - air-cooled, W - water cooled	
Nominal speed class 10 – 1000 min ⁻¹ 50 – 5000 min ⁻¹		
UZK DC	54 – 540 V	
Encoder type	0 - no encoder, A - Resolver, B - EDS35, C - EDM35, D - SRS50, E - SRM50, F - ECN1313, G - EQN1325, H - ECN1325, I - EQN1337, J - EES37, K - EEM37, L - SEK37, M - SEL37, N - Hallsensor, P - ECI1319, Q - EQI1331	
Encoder option	0 – none, E – E-Type plate, S – Safety, T – E-Type plate + Safety	
Brake	0 - without brake, B - with PE brake	
Shaft option	A - smooth shaft, B - with parallel key	
Type main connection	 A - single cable solution, B - device sockets Speedtec (PT1000 on main connection), D - device sockets Speedtec (PT1000 on encoder socket), K - terminal box (with PT1000 connection), N - terminal box (PT1000 on encoder socket) 	
Main outlet port	T - top, B - bottom, L - left, R - right, D - A-side, N - B-side, P - pivoted	
Encoder outlet port	0 - without encoder socket, T - top, B - bottom, L - left, R - right, D - A-side, N - B-side, P - pivoted	
Bearing	K - ball bearing, R - roller bearing	
Vibration level	A - vibration level A, B - vibration level B	
True running	N - normal, R - reduced	
Gears / pump mounting	O – without, A – BPE gear box, B – BPEF gear box, C – BPEA gear box, D – BPN gear box, E – BPNA gear box, F – BPNF gear box, G – BPV gear box, H – BPVF gear box, Z – pump mounting Advanced Line	

HOUSE OF AUTOMATION



Baumüller Nürnberg GmbH

Ostendstraße 80 – 90 · 90482 Nürnberg · Germany Phone: +49 (0) 911 5432 - 0 · Fax: +49 (0) 911 5432 - 130

www.baumueller.com



Download this brochure as PDF

All data/information and particulars given in this brochure is non-binding customer information, subject to constant further development and continuously updated by our permanent alteration service. Please note that all particulars/figures/information is current data at the date of printing. These particulars are not legally binding for the purpose of measurement, calculation or cost accounting. Prior to using any of the information contained in this brochure as a basis for your own calculations and/or applications, please inform yourself about whether the information you have at your disposal is up to date. Therefore, no liability is assumed for the correctness of the information.

2.244.en.324



baumueller.com



@BaumuellerGroup



Baumüller Nürnberg GmbH



Baumüller Gruppe

www.baumueller.com