CASM-32

Brushless DC motor BG 45 and adapters

CASM-32 linear units with brushless DC motors are perfectly suited to replace pneumatic cylinders in many applications.

It is a very simple system to set up. Connect the motor to a 24 V DC power supply and program up to 14 motion profiles with your computer and the programming accessory kit.

After programming the motor, the motion profile can be activated by 2 – 4 binary signals (PLC outputs or switches) and the actuator will run to the defined position.

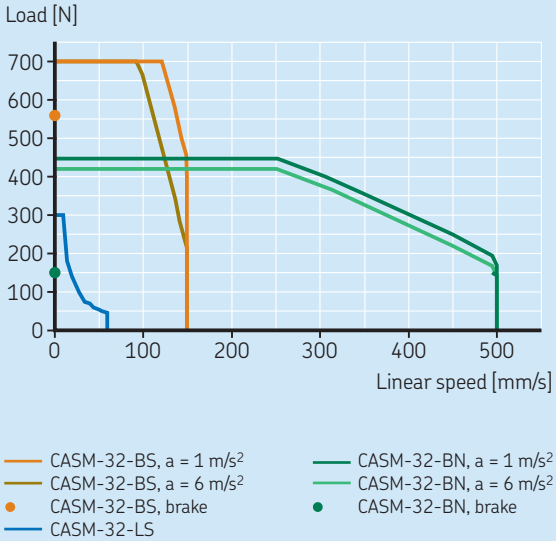
The brushless, DC motor BG 45x30 PI, comes with an internal encoder with 1 024 counts per turn for high positioning accuracy. The internal brake is activated after each movement to secure the system in case of a power loss and to give the motor time to cool down when not in operation.

The brake also enables an increase in the power performance of a full motion cycle.

For more information, please visit the following site: www.skf.com/casm



Load / linear speed diagram



Load = force acting on the actuator
(gravity force + acceleration force + constant force)

Order numbers for a complete actuator

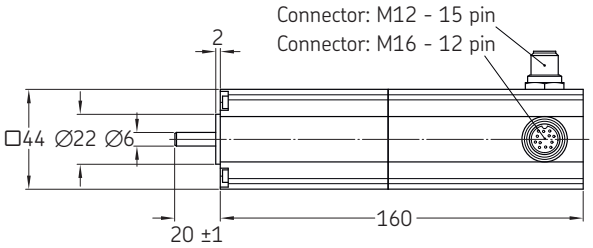
	Order No.
Linear unit according to your needs	See CASM-32 Linear units
Brushless DC motor BG 45x30 PI	BG45X30PI
Adapter kit, parallel or in-line	ZBE-37557x, see below
Accessories according to your needs	See CASM-32 Accessories
Cable kit for BG 45	ZBE-530632-xx, see below

Accessories

	Order No.
Programming kit for BG motor series	ZBE-530615
Cable kit 3 m for BG 45	ZBE-530632-03
Cable kit 10 m for BG 45	ZBE-530632-10
Replacement belt for parallel adapter	ZBE-375600-32

BLDC motor BG45 x 30

with PI interface and brake



Order No.:

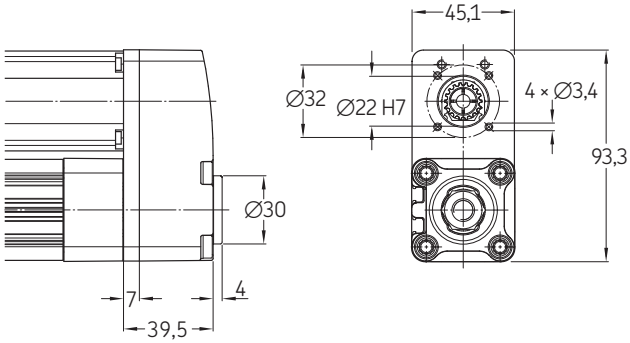
BG45X30PI

Motor data

	Symbol	Unit	BG 45x30 PI
Nominal torque (100 K)	M	Nm	0.25
Stall torque (20 °C)	M_0	Nm	0.942
Nominal rotational speed	ω	1/min	3 360
Nominal voltage	U	V DC	24
Nominal current (100 K)	I	A	4.87
Peak current (2 s)	I_{peak}	A	15
Max. output power (20 °C)	P_{out}	kW	0.159
Inertia with brake	J	kgm^2	0.0044
Weight with brake	m	kg	0.74

Parallel adapter kit

for CASM-32 and BLDC motor BG 45



Order No.:

ZBE-375573



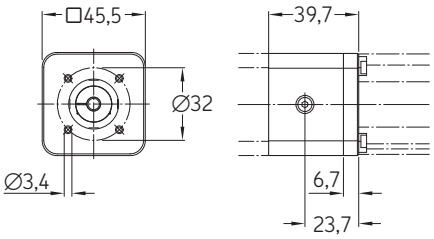
System capabilities

	F_{peak}	F_m [1)]	v_{max}
CASM-32-LS	300 N	300 N	60 mm/s
CASM-32-BS	700 N	327 N	150 mm/s
CASM-32-BN	462 N	131 N	500 mm/s

[1)] Mean load over full cycle. For more information please visit skf.com/casm

In-line adapter kit

for CASM-32 and BLDC motor BG 45



Order No.:

ZBE-375570



System capabilities

	F_{peak}	F_m [1)]	V_{max}
CASM-32-LS	300 N	300 N	60 mm/s
CASM-32-BS	700 N	327 N	150 mm/s
CASM-32-BN	462 N	131 N	500 mm/s

[1)] Mean load over full cycle. For more information please visit skf.com/casm

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PUB MT/P8 14755 EN · September 2014