

Brushless DC-Servomotors

60 mNm

with integrated Speed Controller 4 Pole Technology

30 W

3268 ... BX4 SCDC

Values at 22°C and nominal voltage	3268 0	i	024 BX4 SCDC	
Supply voltage (CW)	U_{mot+}		6,5 30	V DC
Supply voltage (CCW)	U_{mot-}		6,5 30	V DC
Nominal voltage for motor	U_N		24	V
No-load speed (at U_N)	n o		5 500	min ⁻¹
Peak torque (S2 operation for max. 8s)	$M_{max.}$		120	mNm
Torque constant	kм		43,5	mNm/A
PWM switching frequency	f _{РWM}		96	kHz
Efficiency electronic	η		95	%
Standby current for electronic (@ UN)	l el		0,01	Α
Speed range (up to 30V)			400 7 000	min ⁻¹
Shaft bearings		ball bearings, preloaded		
Shaft load max.:				
 with shaft diameter 		5		mm
- radial at 3 000 min ⁻¹ (3 mm from mounting	g flange)	50		N
– axial at 3 000 min-1 (push / pull)		5		N
axial at standstill (push / pull)		50		N
Shaft play:				
– radial		≤ 0,015		mm
– axial		= 0		mm
Operating temperature range		-40 +85		°C
Housing material		stainless steel		
Mass		305		g
				_

Rated values for continuous operation			
Rated torque	MΝ	60	mNm
Rated current (thermal limit)	In	1,6	Α
Rated speed	nn	4 700	min ⁻¹

Interface / range of functions	SCDC
Operating modes	Motor variant with integrated speed controller with two-wire interface without com-
	munication possibility; commutation via digital Hall sensors. Fixed speed control using
	integrated PI controller. Direction of rotation changeover through reversing the supply
	voltage polarity.
Speed range	Digital Hall = from 400 min ⁻¹
Additional functions	Integrated current limitation to protect against thermal overload. Short-time operation
	(S2) with up to double the continuous current.
	Voltage controller substituting DC motors in certain applications. Customer-specific
	firmware available on request.

Note:

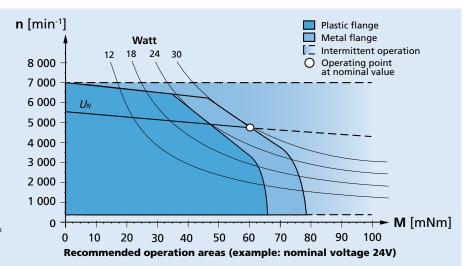
The display shows the range of possible operation points of the drives at a given ambient temperature of 22°C.

The diagram indicates the recommended speed in relation to the available torque at the output shaft.

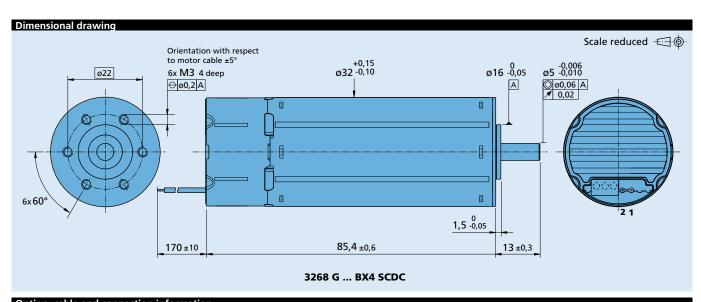
It includes the assembly on a plastic- as well as on a metal flange (assembly method: IM B 5).

The nominal voltage linear slope describes the maximal achievable operating points at nominal voltage.

Any points of operation above this linear slope will require a supply voltage $U_{mot} > U_{N.}$







Option, cal	ole and connection	information				
Example pre	Example product designation: 3268G024BX4SCDC-4140					
Option	Туре	Description	Connection			
			No. Function Description			
4140	Connector	AWG 24 / PVC ribbon cable with connector MOLEX	1 Mot + positive power supply			
	[2]	Microfit 3.0, 43025-0200, recommended mating connector 43020-0200	2 Mot - negative power supply			
	1		Standard cable			
			PVC ribbon cable 2 x AWG 24, 2,54 mm			
			Note: For details on the connection assignment, see device manual for the SCS.			

Product combination			
Precision Gearheads / Lead Screws	Encoders	Drive Electronics	Cables / Accessories
32GPT 32/3R 38/1 38/1 S 38/2 38/2 S 42GPT 32L TL 32L ML 32L SB 32L PB		Integrated	To view our large range of accessory parts, please refer to the "Accessories" chapter.