

Motion Control Systems

96 mNm

V2.5, 4-Quadrant PWM with RS232 or CANopen interface

48 W

3268 ... BX4 Cx

Values at 22°C and nominal voltage	3268 C		024BX4 Cx	
Power supply electronic	UB/UEL		12 30	V DC
Power supply motor ¹⁾	/U _B		0 30	V DC
Nominal voltage for motor	U_N		24	V
No-load speed (at <i>UN</i>)	n o		5 000	min ⁻¹
Peak torque (S2 operation for max. 6s)	M_{max} .		192	mNm
Torque constant	к м		43,5	mNm/A
PWM switching frequency	fрим		78	kHz
Efficiency electronic	η		95	%
Standby current for electronic (@ U_B =24V)	l ei		0,055	Α
Speed range (up to 30V)			1 6 400	min ⁻¹
			'	
Shaft bearings		ball bearings, preloaded		
Shaft load max.:		5 · ,		
– with shaft diameter		5		mm
- radial at 3 000 min ⁻¹ (5 mm from mounting 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 +100		°C
Housing material		motor: stainless steel; controller housing: zinc, black anodized		
Mass		460	<u> </u>	g

1) Only available for option 2993 (separate power supply)

Rated values for continuous operation				
Rated torque	MΝ		96	mNm
Rated current (thermal limit)	IN		2,38	Α
Rated speed	nn		3 900	min ⁻¹

Interface / range of functions	CS	CO	
Configuration from Motion Manager 5.0	RS232	CANopen	
Fieldbus	RS232	CANopen	
Operating modes (CS)	Position/speed/torque control via interface or analogue set value specification. Operati-		
	on as servo amplifier in voltage controller mode.		
Operating modes (CO)	Profile Position Mode (PP), Profile Velocity Mode (PV), Homing Mode.		
Speed range	see motor diagram		
Application programs, (CS)	Command sequences from movement and control commands can be placed directly into		
	the controller as user programs.		
		peration without a connected communication interface.	
Additional functions	Overload protection for electronics and motor, self-protection from overheating, over-		
	voltage protection in generator mode.		
	_		

Note:

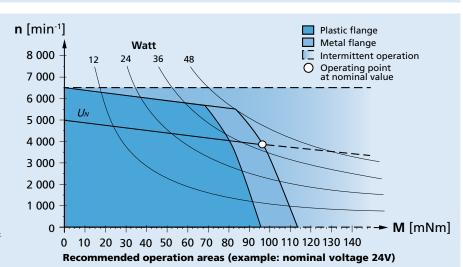
The display shows the range of possible operation points of the drives at a given ambient temperature of 22°C.

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

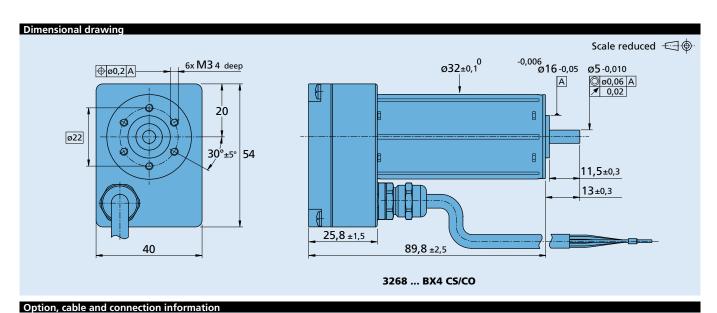
It includes the assembly on a plastic- as well as on a metal flange (assembly method: IM B 5).

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 $U_{mot} > U_{N.}$







Example pi	Example product designation: 3268G024BX4CS-2993					
Option	Туре	Description	Connection			
			Wires Function			
2993	Supply	Separate voltage supply for motor and electronics	blue GND pink U ₈ brown Analog input white Fault output grey Analog GND yellow R5232 RXD / CAN_L green R5232 TXD / CAN_H red Connection No. 3			
			andard cable //C-cable, 8-conductors AWG 24, length 1 meter sution: onnect motor supply terminals to the correct olarity. Electronics are protected against polarity versal by an internal fuse. In case of damage, this ternal fuse can only be replaced at the factory. ote: For details on the connection assignment, e device manual MCS.			

Product combination			
Precision Gearheads / Lead Screws	Encoders	Drive Electronics	Cables / Accessories
32GPT 32/3 32/3R 38/1 38/1 5 38/2 38/2 38/2 5 42GPT		Integrated	To view our large range of accessory parts, please refer to the "Accessories" chapter.