

Motion Control Systems

96 mNm

V3.0, 4-Quadrant PWM with RS232 or CANopen interface

41 W

MCS 3268 ... BX4 RS/CO

Values at 22°C and nominal voltage	MCS 3	2686	024BX4 RS/CO	
Power supply electronic	U _P	2000	12 50	V DC
Power supply motor	Umot		0 50	V DC
Nominal voltage for motor	Un		24	V
No-load speed (at <i>U</i> _N)	n _o		4 700	min ⁻¹
Peak torque (S2 operation for max. 150s)	M _{max} .		190	mNm
Torque constant	Kм		43,5	mNm/A
PWM switching frequency	f _{PWM}		100	kHz
Efficiency electronic			95	% %
Standby current for electronic (@ U_P =24V)	η lei		0,06	A
Speed range (up to 30V)	Iel		1 6 000	min ⁻¹
speed range (up to sov)			1 6 000	IIIII ·
Shaft bearings		ball bearings, preloaded		
Shaft load max.:		ball bearings, preloaded		
– with shaft diameter		5		na ma
- radial at 3 000 min ⁻¹ (5 mm from mounting	flange	50		mm N
	nange)	5		N N
- axial at 3 000 min ⁻¹ (push / pull)		5 50		
– axial at standstill (push / pull)		50		N
Shaft play:		- 0.015		
– radial		≤ 0,015		mm
– axial		= 0		mm
0		40 400		°C
Operating temperature range		-40 +100		٠.
Housing material		aluminium, stainless steel		
Protection class, with option V ring		IP54		
Mass		378		9

Rated values for continuous operation					
Rated torque	Mn	96	mNm		
Rated current (thermal limit)	IN	2,3	Α		
Rated speed	nn	3 700	min ⁻¹		

Interface / range of functions	RS	CO	
Configuration from Motion Manager 6.0	RS232	CANopen	
Fieldbus	RS232	CANopen	
Operating modes	PP, PV, PT, CSP, CSV, CST and homing acc. to IEC 61800-7-201 or IEC 61800-7-301 as well		
	as position-, speed- and torque control via analog setpoint or voltage controller		
Speed range	see motor diagram		
Application programs	Max. 8 application programs (BASIC), one of which is an autostart function		
Additional functions	Touch-probe input, connection of a second incremental encoder, control of a holding		
	brake		
Indicator	LEDs for displaying the operating state		
	Trace as recorder (scope	e function) or logger	
	· ·		

Note:

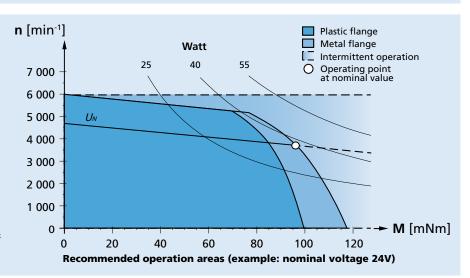
The display shows the range of possible operation points of the drives at a given ambient temperature of 22°C.

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

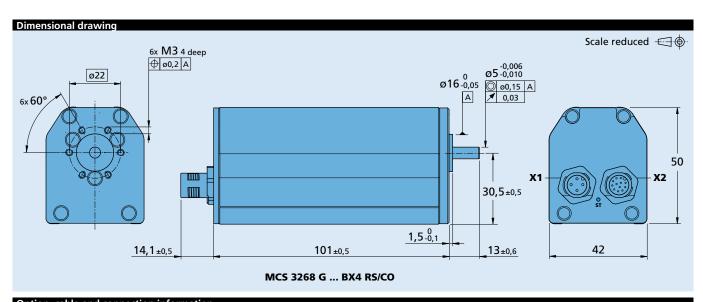
It includes the assembly on a plastic- as well as on a metal flange (assembly method: IM B 5).

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, cable and connection information						
Example product designation: MCS3268G024BX4RS-5453						
Option	Туре	Description	Con	Connection		
5451	Cable outlet	Radial via bottom plate	Nam	e Function	Inputs-outputs	Description
5452	Shaft seal	For use with oil emulsive substances	X1	Motor and electronic		
5453	Shaft seal	IP54 according to IEC 60529		power supply		
5657	Motor flange seal	IP54 according to IEC 60529				
		_	X2	Inputs / outputs	Digln1, Digln2, Digln3	TTL or. PLC level max. 0,7A continuous current ± 10V against AGND 5V
					DigOut1, DigOut2 AnIn1, AnIn2 Uout / GND	
			Not	to: For details on the sen	nection assignment, see dev	ico manual for the MCS
			NO	ie. For details on the con	nection assignment, see dev	ice manual for the MCs.

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