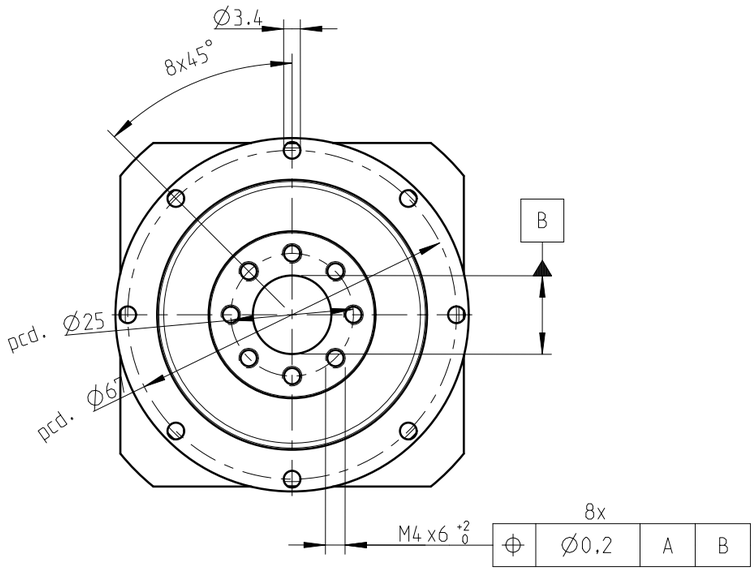
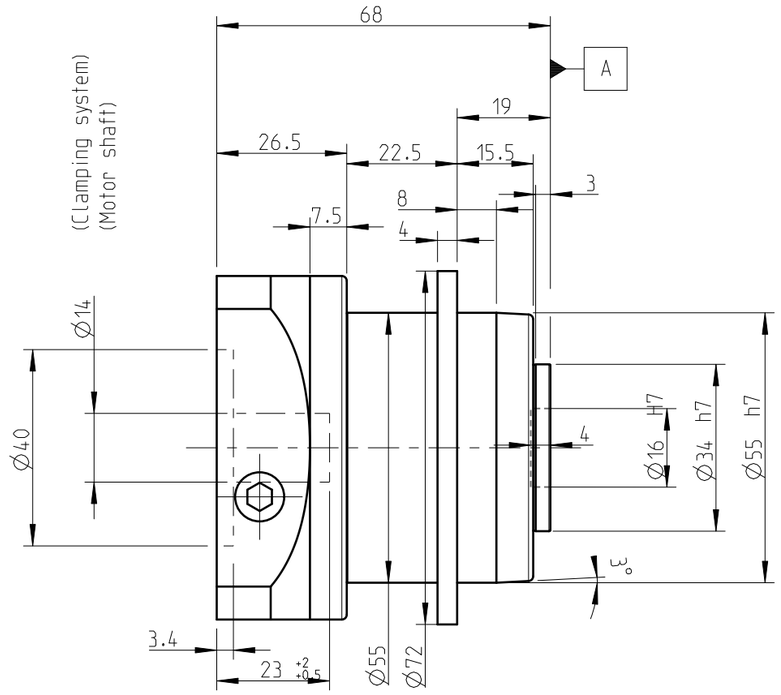
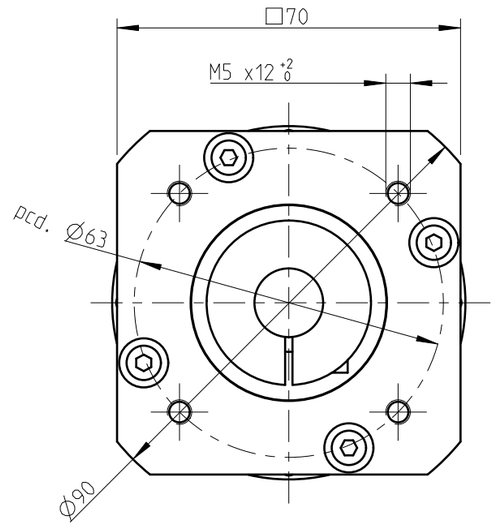


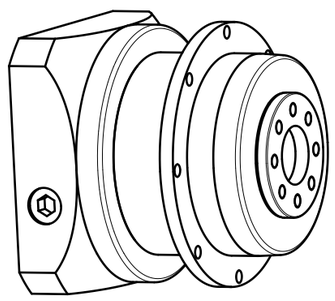




Flange output shaft (similar ISO 9409-1)

Materials / Surfaces:
Input flange: Aluminum / untreated
Housing: Steel / heat-treated and post-oxidized (black)
Output flange: Steel / untreated

Hints:
Please pay attention to the operating and mounting instructions.
Subject to modifications.



NEUGART	Scale: 4:5	DIN A3	ISO
	Revision status: 002 from: 04/2026		
General tolerance DIN ISO 2768-cL	PSFNpro055-004-SSSD3AD-Z14 /23/40/63/B5/M5		
Neugart GmbH Keltenstr. 16 D-77971 Kippenheim			Sheet 1/2

General gearbox data	Character	Unit	
Article number	-	-	100849075
Planetary gearbox - gearing type	-	-	Helical teeth
Rotation direction	-	-	Input and output in the same direction
Number of stages	p	-	1
Output shaft bearing	-	-	Inclined roller bearings
Service life	L_h	h	20000
Min. operating temperature	t_{min}	°C	-25
Max. operating temperature	t_{max}	°C	90
Protection class	-	-	IP65
Lubrication planetary stage (lifetime lubrication)	-	-	Castrol Optigear Synthetic 800/220
Installation position	-	-	Any
Max. bending moment based on the gearbox input flange (for motor weight) (1)	M_{b1}	Nm	10
Motor shaft concentricity (Measuring methods according to operating manual)	-	mm	0,02
Coaxiality and axial runout Motor flange (Measuring methods according to operating manual)	-	mm	0,03
Concentricity of output flange shaft (Measuring methods according to operating manual)	-	mm	0,03
Axial run-out of output flange shaft (Measuring methods according to operating manual)	-	mm	0,03
Required motor shaft tolerance	-	-	j6 / k6
Min. permissible motor shaft length	$L_{20\ min}$	mm	14
Maximum radial force based on shaft end and T2=0Nm	$F_{r\ max}$	N	1450
Maximum axial force based on gearbox axis and T2=0Nm	$F_{a\ max}$	N	2350

(1) Max. motor weight* in kg $= \dfrac{0{,}2 \times M_b}{\text{motor length in m}}$

* with symmetrically distributed motor weight
* with horizontal and stationary mounting

Ratio-dependent gearbox data	Character	Unit	
Ratio	i	-	4
Cyclic torque (5)	T_{2Z}	Nm	25
Maximum torque (5)	T_{2max}	Nm	40
Continuous torque (5)	T_{2D}	Nm	19
Emergency stop torque permitted 1000 times	T_{2Stop}	Nm	55
Continuous input speed at T2D and 20 °C gearbox temperature	n_{1D}	rpm	3950
Max. mechanical input speed Operating temperature may not be exceeded!	n_{1max}	rpm	10000
Average idle torque for n1=3.000 rpm and 20 °C gearbox temperature	T_0	Nm	0,35
Backlash based on output shaft	phi	arcmin	< 6
Torsional stiffness based on output shaft	C_{2t}	Nm/arcmin	5
Efficiency at T2Z, gearbox temperature 70 °C and n1=1.000rpm	eta	%	96
Running noise at n1=3.000 rpm without load at a distance of 1m	L_{pA}	dB(A)	56
Gearbox weight	m	kg	0,93
Mass moment of inertia input	J_1	kgcm²	0,152

(5) In the event of additional radial or axial loads, NCP design is required.

Subject to modifications.

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/23/40/63/B5/M5

Revision status 002 - 04/2026