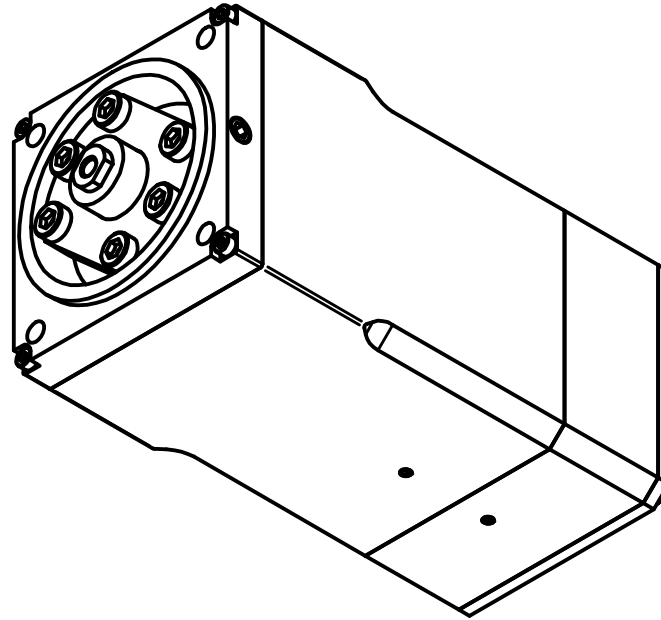
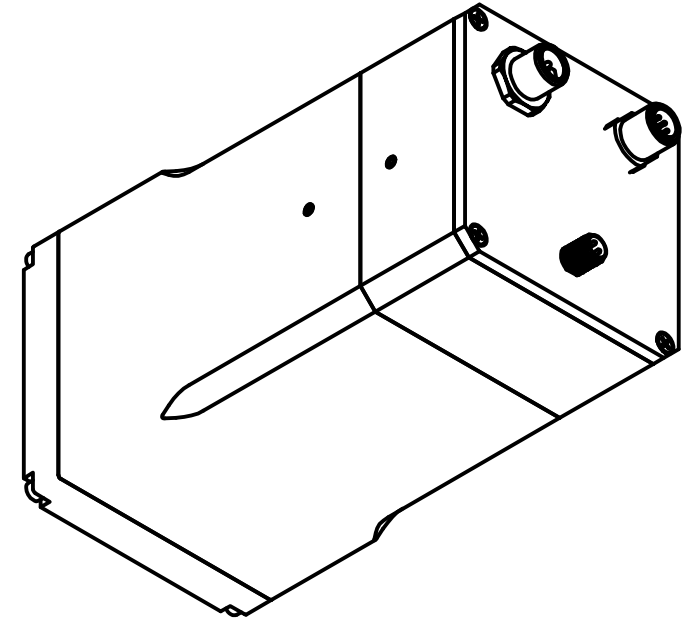




	SPECIFICATION		LBA80LDR2005-E4B-55	
Motor	Rated Voltage $\pm 10\%$	V DC	48	
	Current - Rated / Peak	A	7.8 / 23.4	
	Inductance Line to Line (1 kHz) $\pm 20\%$	mH	0.36	
	Resistance Line to Line (20°C) $\pm 10\%$	Ω	0.34	
	Rated Power	W	310	
	No. of Poles		20	
Mech. Spec.	Force - Rated / Peak	N	1000 / 3000	
	Torque Constant	Nm/A	0.144	
	Speed - Rated / No Load $\pm 10\%$	mm/s	208 / 254	
	Speed - Rated / No Load $\pm 10\%$	rpm	2500 / 3200	
	Lead	mm	5	
	Axial Play Max.	mm	0.04	
Brake	Rotor Inertia	kg.m ²	389	$\times 10^{-6}$
	Excitation Voltage	V DC	24 $\pm 10\%$	
	Excitation Power (20°C)	W	11.6	
	Brake Re-Engage Voltage	V DC	≤ 1	
	Brake Force	N	2500	
	Linear Brake Backlash	mm	0.014	
Rot. Encoder E4	Operating Voltage $\pm 10\%$	V DC	9 ... 30	
	Resolution	bit	17	
	Signal Type		SSI	
Ambient Cond.	Ambient Temperature	°C	0 ... 40	
	Ambient Humidity Max. (non condensing) %		85	
	Storage Temperature	°C	0 ... 40	
	Protection Class (except ball screw outlet)		IP 54	

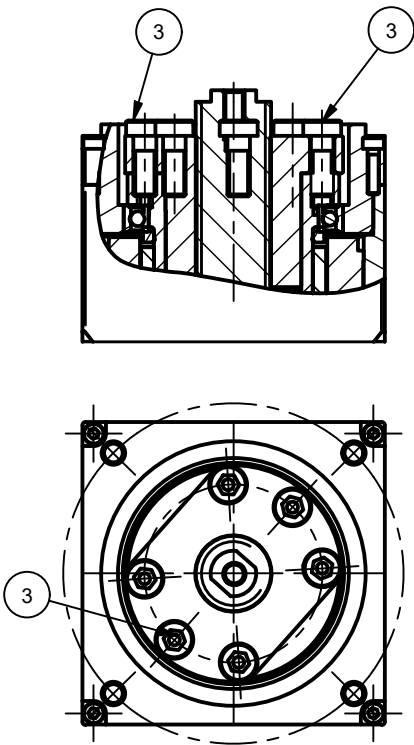


In addition to this data sheet the documentation of all components mentioned with part number is applicable and has to be considered

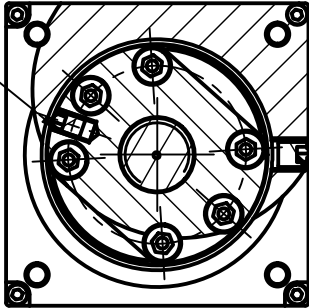
ISO 8015		ISO 1302		ISO 2768 c		ISO 13715		Material: n.a.			Weight: ± 10% N/A		
05	CR-2026-0071		Kaufmann_M	29.10.2026		Date	Name	Article No.: LBA80LDR2050-E4B-55					
04	ECP-12-05-26		Kaufmann_M	19.06.2026	Drawn	19.09.2025	Kaufmann_M						
03	ECP-12-05-26		Kaufmann_M	10.06.2026	Reviewed	24.09.2025	Kolev_I						
02	Change the pole nr. to 08		Kaufmann_M	28.10.2025	Released	24.09.2025	Kaufmann_M	Drawing No.: 20003212					Scale: 1 : 2
01	CR-2025-0064		Kaufmann_M	30.09.2025									A4 Page 2
REV	Rev. Text		Name	Date				State: Released			Rev: 05		

Insert the ball-screw (pos.2) in the GM:

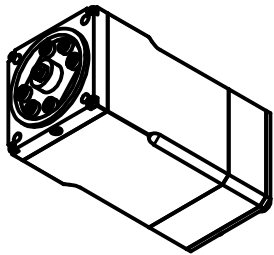
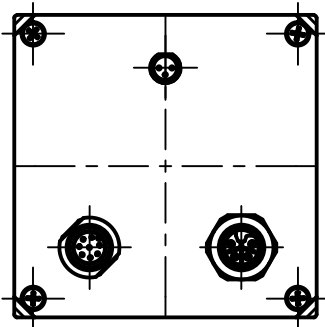
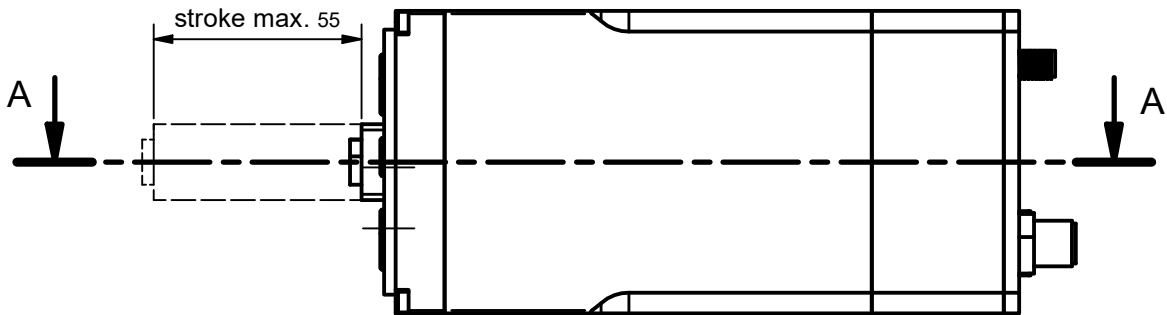
- 1. Hold the LBA80-GM (pos.1) in vertical position to insert the ball-screw (pos.2).
- 2. Check: the grease filling hole in the ball screw must be closed with a grub screw (M6)!
- 3. Insert the ball-screw and fix it with 4 screws M6 (pos.3).
- 4. Tightening torque M6: max. 27 Nm
- 5. Closed the grease filling hole with a grub screw M8x8 (pos.6).



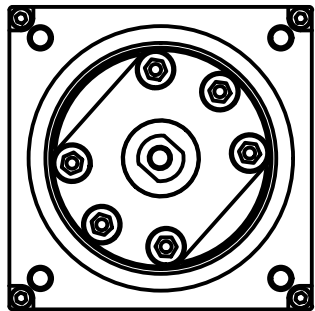
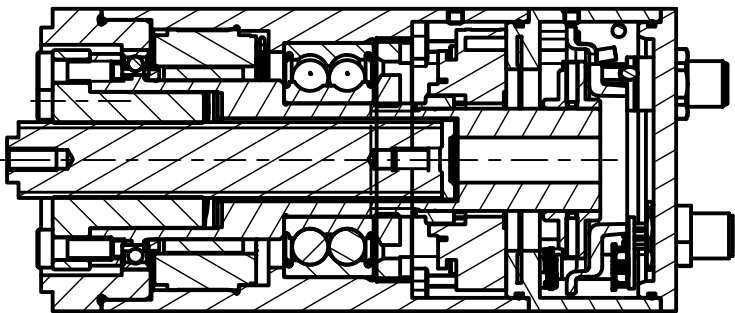
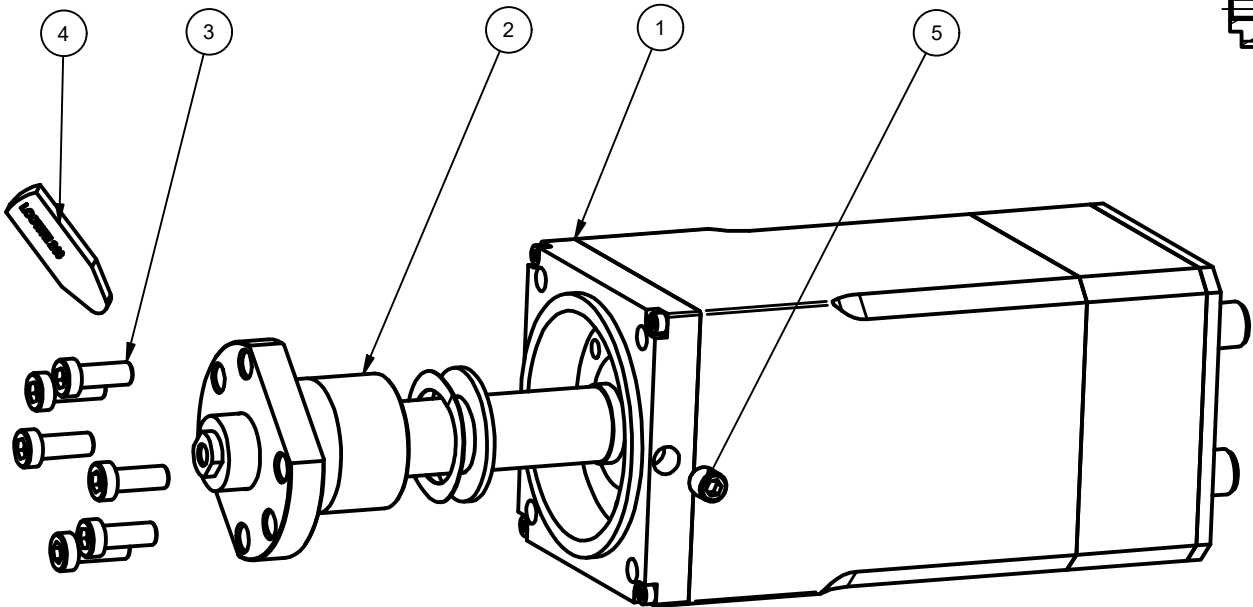
Grease filling hole in the ball-screw nut closed with the grub screw M6x8



Grease filling hole in the ball-screw nut closed with the grub screw M8x8



A-A



Motor body surfaces black anodized.

Dimension in the brackets are only informational

5	1	PCS	ISO4026-M8x8-45H-Zn	Grub screw with flat point hexagon socket	
4	1	PCS	n.a.	GLUE-LOCTITE-243	
3	6	PCS	n.a.	DIN 6912 M6 x 16 - 10.9	
2	1	PCS	20002603	AS-LBA80-BALLSCREW-PMI-R2050-assembl	
1	1	PCS	20003211	AS-LBA80-GM-2050-E4B-55	
POS.	QTY	UNITY	DRAWING		TITEL
ISO 8015		ISO 1302		ISO 2768 c	ISO 13715
05	CR-2026-0071	Kaufmann_M	29.10.2026	Date	Name
04	ECP-12-05-26	Kaufmann_M	19.06.2026	Drawn	19.09.2025 Kaufmann_M
03	ECP-12-05-26	Kaufmann_M	10.06.2026	Reviewed	24.09.2025 Kolev_I
02	Change the pole nr. to 08	Kaufmann_M	28.10.2025	Released	24.09.2025 Kaufmann_M
01	CR-2025-0064	Kaufmann_M	30.09.2025		
REV	Rev. Text	Name	Date		
Material: n.a.					Weight: ± 10% N/A
Article No.:					LBA80LDR2050-E4B-55
Drawing No.:					20003212
State: Released					Rev: 05
CONFIDENTIAL					Scale: 1 : 2
					A3 Page 3