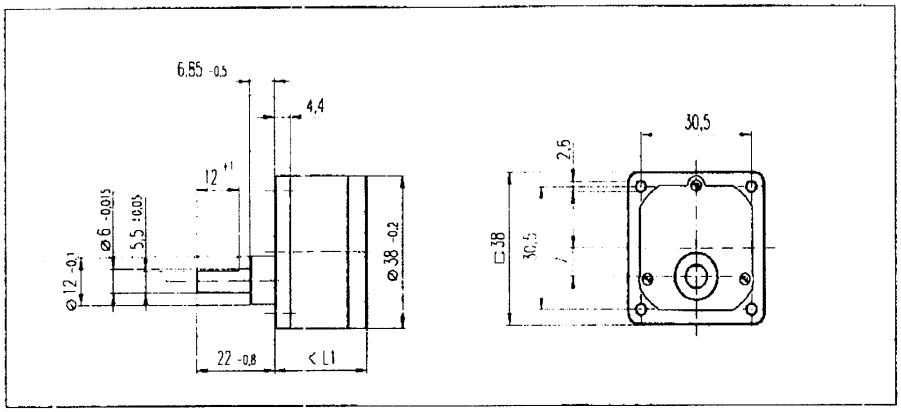
Spur Gearhead GS 38
Ø38 mm, 0.1-0.6 Nm



Technical Data

Spur Gearhead	straight teeth
Output shaft	stainless steel
Bearing at output	sleeve bearing
Radial play, 5 mm from bearing	max. 0.1 mm
Axial play	0.03 - 0.2 mm
Max. perm. radial load, 5 mm from bearing	50 N
Max. permissible axial load	30 N
Max. permissible force for press fits	500 N
Average backlash no load	2°
Backlash at nominal load torque	3°
Recommended input speed	< 5000 rpm
Recommended temperature range	-5/+80°C

Gearhead Data

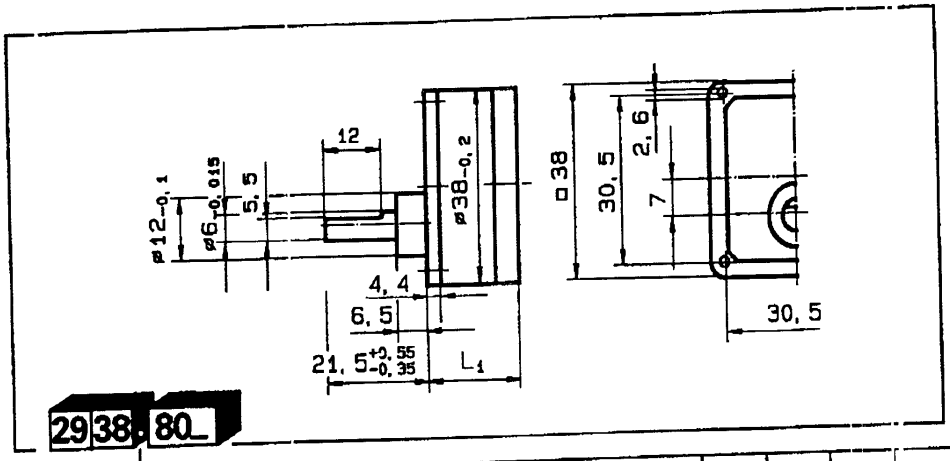
	Order number		110451	110452	110453	110454	110455	110456	110457	110458	110459
1	Reduction		6 : 1	10 : 1	18 : 1	30 : 1	60 : 1	100 : 1	200 : 1	500 : 1	900 : 1
2	Reduction absolute		6	10	18	30	60	100	200	500	900
3	Number of stages		2	2	3	3	4	4	5	6	6
4	Max. continuous torque at gear output	Nm	0.1	0.1	0.2	0.2	0.6	0.6	0.6	0.6	0.6
5	Intermittently permissible torque at gear output	Nm	0.3	0.3	0.6	0.6	1.8	1.8	1.8	1.8	1.8
6	Sense of rotation, drive to output		=	=	≠	≠	=	=	≠	=	=
7	Max. efficiency	%	81	81	73	73	66	66	59	53	53
8	Weight	g	55	55	60	60	65	65	70	75	75
9	Gearhead length L1	mm	20.7	20.7	23.2	23.2	25.7	25.7	28.2	30.7	30.7

Stock program
Standard program
Special program (on request!)

Combination

+ Motor	Page	+ Tacho	Page	Overall length [mm]								
S 2326, 6 W	71/72			65.4	65.4	67.9	67.9	70.4	70.4	72.9	75.4	75.4
S 2326, 6 W	72	DC-Tacho 22	173	86.7	86.7	89.2	89.2	91.7	91.7	94.2	96.7	96.7
S 2326, 6 W	72	Digital Encoder 22	174	81.3	81.3	83.8	83.8	86.3	86.3	88.8	91.3	91.3
S 2326, 6 W	72	Digital Encoder HED_ 55_	176/178	85.2	85.2	87.7	87.7	90.2	90.2	92.7	95.2	95.2
S 2332, 11 W	73/74			65.8	65.8	68.3	68.3	70.8	70.8	73.3	75.8	75.8
S 2332, 11 W	74	DC-Tacho 22	173	82.7	82.7	85.2	85.2	87.7	87.7	90.2	92.7	92.7
S 2332, 11 W	74	Digital Encoder 22	174	82.3	82.3	84.8	84.8	87.3	87.3	89.8	92.3	92.3
S 2332, 11 W	74	Digital Encoder HED_ 55_	177/179	85.5	85.5	88.0	88.0	90.5	90.5	93.0	95.5	95.5
F 2140, 4 W	88			64.7	64.7	67.2	67.2	69.7	69.7	72.2	74.7	74.7
F 2140, 6 W	89/90			68.7	68.7	71.2	71.2	73.7	73.7	76.2	78.7	78.7
F 2140, 6 W	90	Digital Encoder 22	175	86.3	86.3	88.8	88.8	91.3	91.3	93.8	96.3	96.3
A-max 26	109-116			65.4	65.4	67.9	67.9	70.4	70.4	72.9	75.4	75.4
A-max 26	109-115	Digital Magnetic Encoder 13	184	72.5	72.5	75.0	75.0	77.5	77.5	80.0	82.5	82.5
A-max 26	110-116	Digital Encoder 22	175	79.9	79.9	82.4	82.4	84.9	84.9	87.4	89.9	89.9
A-max 26	110-116	Digital Encoder HED_ 55_	177/179	83.8	83.8	86.3	86.3	88.8	88.8	91.3	93.8	93.8
A-max 32	117-119			80.7	80.7	83.2	83.2	85.7	85.7	88.2	90.7	90.7
A-max 32	118/120	Digital Encoder HED_ 55_	177/179	99.1	99.1	101.6	101.6	104.1	104.1	106.6	109.1	109.1

Spur gearhead 29 38 . 80_



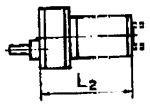
29 38 . 80_

Technical Data	
Spur gearhead	straight teeth
Bearing at output	sleeve bearing
Radial play, 12 mm from flange	0.1 mm
Axial play	0.05–0.2 mm
Max. perm. radial load, 16 mm from flange	50 N
Max. permissible axial load	30 N
Max. permissible force for press fits	500 N
Avarage backlash no load	2°
Backlash at nominal load torque	3°
Efficiency per stage	~90%
Recommended input speed	<5000 rpm
Recommended temperature range	-5/+80°C

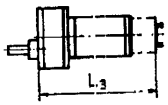
Gearhead Order Number	Reduction	No. of stages	max. Torque contin- uous Nm	max. Torque inter- mittent Nm	Sense of direction	Weight g	L_1 mm	L_2 mm	L_3 mm	L_4 mm	L_5 mm	L_6 mm	L_7 mm	L_8 mm	L_9 mm
2938.802–0006.0–000	6:1	2	0.1	0.3	=	55	20.7	65.4	86.7	81.5	85.15	65.75	82.65	81.6	85.5
2938.802–0010.0–000	10:1	2	0.1	0.3	=	55	20.7	65.4	86.7	81.5	85.15	65.75	82.65	81.6	85.5
2938.803–0018.0–000	18:1	3	0.2	0.6	≠	60	23.2	67.9	89.2	84.0	87.65	68.25	85.15	84.1	88.0
2938.803–0030.0–000	30:1	3	0.2	0.6	≠	60	23.2	67.9	89.2	84.0	87.65	68.25	85.15	84.1	88.0
2938.804–0060.0–000	60:1	4	0.3	0.9	=	65	25.7	70.4	91.7	86.5	90.15	70.75	87.65	86.6	90.5
2938.804–0100.0–000	100:1	4	0.6	1.8	=	65	25.7	70.4	91.7	86.5	90.15	70.75	87.65	86.6	90.5
2938.805–0200.0–000	200:1	5	0.6	1.8	≠	70	28.2	72.9	94.2	89.0	92.65	73.25	90.15	89.1	93.0
2938.806–0500.0–000	500:1	6	0.6	1.8	=	75	30.7	75.4	96.7	91.5	95.15	75.75	92.65	91.6	95.5
2938.806–0900.0–000	900:1	6	0.6	1.8	=	75	30.7	75.4	96.7	91.5	95.15	75.75	92.65	91.6	95.5

+ Motor Order Number

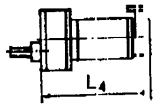
23 26 . ... – 62 . 2 1 6 – 2 0 0
Basic motor 2326....–12.216–200
see page 26–27



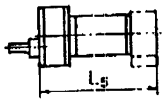
23 26 . ... – 74 . 2 3 6 – 2 0 0
Basic motor 2326....–52.236–200
see page 26–27



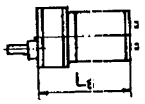
23 26 . ... – 74 . 2 3 6 – 2 0 0
Basic motor 2326....–52.236–200
see page 26–27



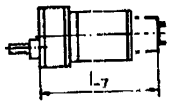
23 26 . ... – 74 . 2 3 6 – 2 0 0
Basic motor 2326....–52.236–200
see page 26–27



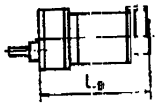
23 32 . ... – 62 . 2 5 7 – 2 0 0
Basic motor 2332....–12.257–200
see page 28



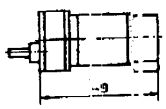
23 32 . ... – 72 . 2 7 7 – 2 0 0
Basic motor 2332....–55.277–200
see page 28



23 32 . ... – 74 . 2 7 7 – 2 0 0
Basic motor 2332....–55.277–200
see page 28



23 32 . ... – 74 . 2 7 7 – 2 0 0
Basic motor 2332....–55.277–200
see page 28



+ Tacho/Encoder

DC-Tacho 28 22 . 800
Details see page 72

Digital Encoder 34 16 . ...
Details see page 74

Digital Encoder HP HEDS 5010 34 07 . ...
Details see page 77

DC-Tacho 28 22 . 800
Details see page 72

Digital Encoder 34 16 . ...
Details see page 75

Digital Encoder HP HEDS 5010 34 07 . ...
Details see page 78

continued on page 67