

# Performance table

		Abbreviation	Unit	P27	P33	P45
<b>Output torque</b>						
Nominal torque	i=1.0:1	T <sub>2N</sub>	Nm	3.5	5	16
maximum acceleration ①		T <sub>2B</sub>	Nm	5	7.5	25
EMERGENCY STOP torque ②		T <sub>2Not</sub>	Nm	7	10	32
Nominal torque	i=1.5:1	T <sub>2N</sub>	Nm	2.2	3.2	11
maximum acceleration ①		T <sub>2B</sub>	Nm	3.3	4.8	16.5
EMERGENCY STOP torque ②		T <sub>2Not</sub>	Nm	4.4	6.4	22
Nominal torque	i=2.0:1	T <sub>2N</sub>	Nm		2.3	8.5
maximum acceleration ①		T <sub>2B</sub>	Nm		3.5	13
EMERGENCY STOP torque ②		T <sub>2Not</sub>	Nm		4.6	17
Nominal torque	i=3.0:1	T <sub>2N</sub>	Nm		1.5	6.5
maximum acceleration ①		T <sub>2B</sub>	Nm		2	10
EMERGENCY STOP torque ②		T <sub>2Not</sub>	Nm		3	13
Nominal torque	i=4.0:1	T <sub>2N</sub>	Nm		1.3	5
maximum acceleration ①		T <sub>2B</sub>	Nm		2	7.5
EMERGENCY STOP torque ②		T <sub>2Not</sub>	Nm		2.6	10
Input speed	i=1.0:1	n <sub>1max</sub> ③	min <sup>-1</sup>	7500	7500	7500
Output backlash ④	nominal	j <sub>t</sub>	arcmin	≤15	≤15	≤15
<b>Permissible radial load ⑤</b>						
		F <sub>1Rmax</sub>	N	120	160	320
		F <sub>2Rmax</sub>	N	150	200	400
<b>Permissible axial load ⑤</b>						
		F <sub>1Amax</sub>	N	60	80	160
		F <sub>2Amax</sub>	N	75	100	200
Efficiency at max load		η	%	>98	>98	>98
Running noise at 1500 min <sup>-1</sup>		L <sub>pA</sub>	db(A)	≤70	≤70	≤70
Weight		m	kg	0.16	0.22	0.55
Service life		L <sub>h</sub>	h	>15000	>15000	>15000
Lubrication	synthetic oil, ISO VG 150					
Average oil quantity			ml	8	13	35
Operating temperature			°C	≤ 80 °C	≤ 80 °C	≤ 80 °C
Paint	unpainted					

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① at max 1000 cycles per hour, otherwise please contact us

② permissible max 1000 times during the service life of the gearbox

③ follow permissible operating temperatures

④ Assuming 2% load at the output

⑤ Point of force application is center of shaft at an output speed of n = 400 min<sup>-1</sup>

## Shaft arrangements

each right view = mirrored illustration

