

Performance table

		Abbreviation	Unit	P27	P33	P45
Output torque						
Nominal torque	i=1.0:1	T _{2N}	Nm	3.5	5	16
maximum acceleration ①		T _{2B}	Nm	5	7.5	25
EMERGENCY STOP torque ②		T _{2Not}	Nm	7	10	32
Nominal torque	i=1.5:1	T _{2N}	Nm	2.2	3.2	11
maximum acceleration ①		T _{2B}	Nm	3.3	4.8	16.5
EMERGENCY STOP torque ②		T _{2Not}	Nm	4.4	6.4	22
Nominal torque	i=2.0:1	T _{2N}	Nm		2.3	8.5
maximum acceleration ①		T _{2B}	Nm		3.5	13
EMERGENCY STOP torque ②		T _{2Not}	Nm		4.6	17
Nominal torque	i=3.0:1	T _{2N}	Nm		1.5	6.5
maximum acceleration ①		T _{2B}	Nm		2	10
EMERGENCY STOP torque ②		T _{2Not}	Nm		3	13
Nominal torque	i=4.0:1	T _{2N}	Nm		1.3	5
maximum acceleration ①		T _{2B}	Nm		2	7.5
EMERGENCY STOP torque ②		T _{2Not}	Nm		2.6	10
Input speed	i=1.0:1	n _{1max} ③	min ⁻¹	7500	7500	7500
Output backlash ④	nominal	j _t	arcmin	≤15	≤15	≤15
Permissible radial load ⑤						
		F _{1Rmax}	N	120	160	320
		F _{2Rmax}	N	150	200	400
Permissible axial load ⑤						
		F _{1Amax}	N	60	80	160
		F _{2Amax}	N	75	100	200
Efficiency at max load		η	%	>98	>98	>98
Running noise at 1500 min ⁻¹		L _{pA}	db(A)	≤70	≤70	≤70
Weight		m	kg	0.16	0.22	0.55
Service life		L _h	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					

Ex-Protection: Explosion-proof gearboxes available on request

- 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

Type of protection: IP 64

- ④ Assuming 2% load at the output
- ⑤ Point of force application is center of shaft at an output speed of n = 400 min⁻¹

Shaft arrangements

each right view = mirrored illustration

