

GNM 5440E - G 3.1

1 nominal voltage ¹⁾	2 nominal speed	3 nominal torque	4 starting torque	5 nominal torque at undulatory current	6 nominal power	7 nominal current	8 nominal current at undulatory current	9 peak current	10 power gear box input	11 nominal speed gear box input	12 ratio gear box	13 efficiency gear box	load limitations gear box			17 total weight motor + gear box	18 total weight motor + gear box + parking brake	19 F _r (allow. radial shaft load) ³⁾	20 F _a (allow. axial shaft load)
													14 max. power	15 max. cont. torque	16 max. starting torque				
V	rpm	Nm	Nm	Nm	W	A	A	A	W	rpm	i	%	W	Nm	Nm	kg	kg	N	N
24 42 180	536	1,8 ²⁾	12	1,5	100	6,7 ²⁾ 3,8 ²⁾ 0,88 ²⁾	5,8 3,3 0,77	64 37 8,4	115	3000	5,6 :1	87	100	1,8	13	3,8	4,9	200	80
24 42 180	322	2,8 ²⁾	13 ²⁾	2,5	94	6,5 ²⁾ 3,7 ²⁾ 0,85 ²⁾	5,8 3,3 0,77	43 ²⁾ 25 ²⁾ 5,7 ²⁾	110	3000	9,33:1	85	94	2,8	13	3,8	4,9	200	80
24 42	286	2,7	10	1,8	81	5,3 0,73	3,7 0,51	30 3,9	95	1600	5,6 :1	85	81	2,7	13	3,8	4,9	200	80
24 42 180	207	3,8 ²⁾	13 ²⁾	3,7	82	6,0 ²⁾ 3,4 ²⁾ 0,78 ²⁾	5,8 3,3 0,77	28 ²⁾ 16 ²⁾ 3,7 ²⁾	100	3000	14,5 :1	82	82	3,8	13	3,8	4,9	200	80
24 42 180	176	4,2 ²⁾	13 ²⁾	4,1	78	5,9 ²⁾ 3,4 ²⁾ 0,78 ²⁾	5,8 3,3 0,77	24 ²⁾ 14 ²⁾ 3,2 ²⁾	100	3000	17 :1	78	78	4,2	13	3,8	4,9	200	80
24 42 180	100	5,7 ²⁾	13 ²⁾	5,7	60	5,0 ²⁾ 2,8 ²⁾ 0,65 ²⁾	5,0 2,8 0,65	14 ²⁾ 8,2 ²⁾ 1,9 ²⁾	80	3000	30 :1	75	60	5,7	13	3,8	4,9	200	80
24 42 180	86	6,2 ²⁾	13 ²⁾	6,2	56	4,7 ²⁾ 2,7 ²⁾ 0,62 ²⁾	4,7 2,7 0,62	13 ²⁾ 7,1 ²⁾ 1,6 ²⁾	75	3000	35 :1	75	56	6,2	13	3,8	4,9	200	80
24 42	53	8,0 ²⁾	13 ²⁾	8,0	45	3,6 ²⁾ 0,49 ²⁾	3,6 0,49	8,0 ²⁾ 1,1 ²⁾	63	1600	30 :1	72	45	8,0	13	3,8	4,9	200	80
24 42	46	8,0 ²⁾	13 ²⁾	8,0	38	3,3 ²⁾ 0,44 ²⁾	3,3 0,44	6,9 ²⁾ 0,93 ²⁾	55	1600	35 :1	69	38	8,0	13	3,8	4,9	200	80

Tolerances ± 10 %

Columns 3 and 13

Values are valid at operating temperature after run-in period.

Columns 5 and 8

Current values should not exceeded during operation with undulatory current (single way rectification) with harmonic portion above 5%.

Columns 3, 4, 7 and 9

Values correspond with the gearbox load limitations. For high gear ratios the allowed currents may be lower than the motors rated/starting current. If so, please the current has to be limited, e.g. through adjusting the servo controller.

Columns 14, 15 and 16

To avoid gear box overload do not exceed the mentioned values. For oscillating operation the mentioned limitations must be multiplied by 0,75.

¹⁾ 180V - special voltage

²⁾ motor current must be limited to avoid excess of the mentioned value

³⁾ middle of the shaft-extension