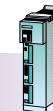


SIMOVER MASTERDRIVES Motion Control

Motor selection

Motor selection
Compact PLUS units

Compact
PLUS units



Inverters with 1FK6 synchronous servomotors

Motor data for a 100 K temperature increase											Converter data	
Rated speed	Size	Motor	Rated torque	Rated current	Stall torque	Stall current	Rated power	Moment of inertia without brake	Weight without brake	Plug size for power cable	Rated current	Inverter
n_{rated}			τ_{rated} Nm (lb _f -in)	I_{rated}	τ_0 Nm (lb _f -in)	I_0	P_{rated} kW (HP)	J x 10 ⁻³ kgm ² (lb _f -in-s ²)	kg (lb)		$I_{n\ conv}$	
rpm		Order No.		A		A					A	Order No.
Supply voltage 3-ph. 400 V to 480 V AC for SIMOVERT MASTERDRIVES Motion Control												
3000	48	1FK6 042-6AF71-1...	2.6 (23)	2.4	3 (26.6)	2.6	0.82 (1.1)	0.33 (0.0029)	5 (11)	1	4	6SE7 014-0TP□
	63	1FK6 060-6AF71-1...	4 (35)	3.1	6 (53)	4.3	1.26 (1.69)	0.86 (0.0076)	9 (19.8)	1	6.1	6SE7 016-0TP□
	63	1FK6 063-6AF71-1...	6 (53)	4.7	11 (97)	7.9	1.88 (2.52)	1.61 (0.0142)	13.2 (29.1)	1	10.2	6SE7 021-0TP□
	80	1FK6 080-6AF71-1...	6.8 (60)	5.2	8 (71)	5.8	2.14 (2.87)	1.5 (0.0133)	12.5 (27.6)	1	6.1	6SE7 016-0TP□
	80	1FK6 083-6AF71-1...	10.5 (93)	7.7	16 (142)	10.4	3.3 (4.42)	2.73 (0.0242)	17 (37.5)	1	13.2	6SE7 021-3TP□
	100	1FK6 100-8AF71-1...	12 (106)	8.4	18 (159)	12.2	3.77 (5.05)	5.53 (0.0489)	21 (46.3)	1	13.2	6SE7 021-3TP□
	100	1FK6 101-8AF71-1...	15.5 (137)	10.8	27 (239)	17.5	4.87 (6.53)	7.99 (0.0707)	26 (57.3)	1.5	17.5	6SE7 021-8TP□
	100	1FK6 103-8AF71-1...	16.5 (146)	11.8	36 (319)	23.5	5.18 (6.94)	10.5 (0.0929)	30 (66.1)	1.5	25.5	6SE7 022-6TP□
6000	36	1FK6 032-6AK71-1...	0.8 (7)	1.5	1.1 (10)	1.7	0.5 (0.67)	0.07 (0.0006)	2.9 (6.4)	1	2	6SE7 012-0TP□
	48	1FK6 040-6AK71-1...	0.8 (7)	1.75	1.6 (14)	2.8	0.5 (0.67)	0.18 (0.0016)	3.7 (8.2)	1	4	6SE7 014-0TP□

For detailed motor information, please refer to Catalog DA 65.3.

SIMOVER MASTERDRIVES Motion Control

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SIMOVER MASTERDRIVES Motion Control Performance 2

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