MOTOR

PMS Series

PMS100

PMSシリーズは、EV向けに設計されたBLDCディスクモータです。
コンパクトで薄型の設計ながら高出力を実現し、軽量かつ高効率で優れた性能を発揮します。
低慣性設計により素早い起動が可能で、高トルクとあわせてダイナミックな動作にも対応します。
電動カートをはじめとする、高性能が求められるさまざまな電動車両に最適です。

Model		PMS100シリーズ	PMS150シリーズ
電源電圧	VDC	24 / 48	48 / 96 / 330 / 560
定格電流	A	69 - 83	24 - 192
定格出力	kW	1.4 - 2.7	8.5 - 14.0
定格トルク	Nm	2.23 - 7.32	13.5 - 33.4
定格回転数	rpm	3000 / 4500 / 6000	
最大電流	A	170 - 460	60 - 1140
最大出力	kW	3.7 - 7.1	18.7 - 34.3
最大負荷トルク	Nm	14 - 20	80
概算質量	kg	7.2	22.3

PMSG Series

PMSGシリーズは、PMSにギアをアセンブリした駆動ユニットです。低速、高トルクで直接ホイール駆動をするアプリケーションに適しています。

Model		PMSG xxx-500	PMSG xxx-1500
1 stage		4	5
2 stage		16 / 24	17 / 25 /40
3 stage		96 / 144 /252	100 / 150 / 240
連続トルク	Nm	160	800
最大トルク	Nm	500	2000
保護等級		up to IP67	
概算質量	kg	≦7	14 - 17.5

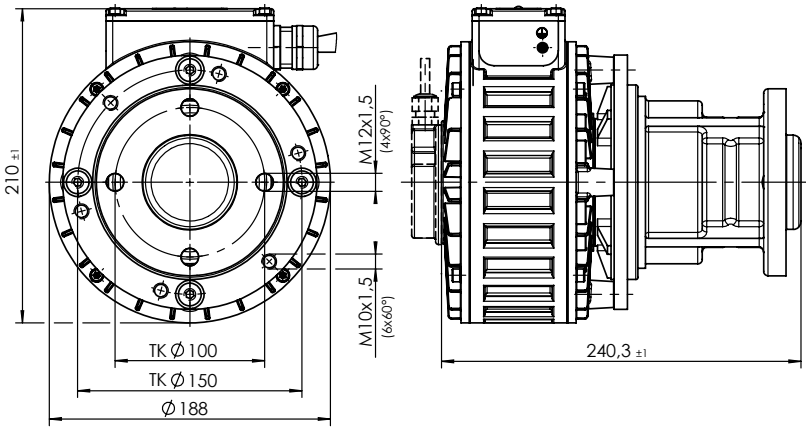
・表は一例であり、その他の製品もご用意があります。

Series of PMSG System Solutions

PMSG 100-500

The PMSG 100-500 combines a PMS 100 motor with a gear and an output torque of up to 160 Nm.

DIMENSIONS



TECHNICAL DATA

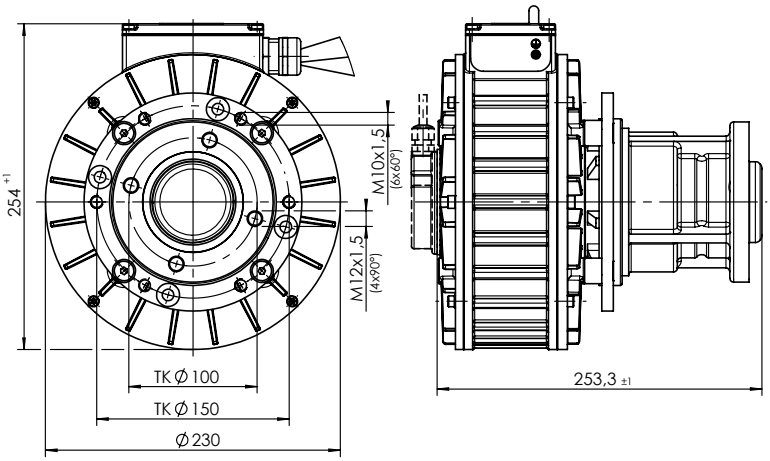
	Motor data				Gearing data			
	Rated power	Rated speed	Rated load torque	Rated current	Gear ratio	Efficiency	Rated speed	Rated load torque
Voltage	kW	rpm	Nm	A	i	%	rpm	Nm
PMSG 100-500-2-16								
24 VDC	1.4	3000	4,5	69	16	94	188	67
	1.7	4500	2.2	83	16	94	281	54
48 VDC	2.3	3000	7.3	60	16	94	188	110
	2.6	4500	5.5	65	16	94	281	83
PMSG 100-500-2-42								
24 VDC	1.4	3000	4.5	69	42	94	71	160
	1.68	4500	3.6	83	42	94	107	141
48 VDC	2.3	3000	7.3	60	42	94	71	160
	2.6	4500	5.5	65	42	94	107	160

▸ Cooling: Forced ventilation ▸ m = 14.5 kg ▸ Operating mode = S1

PMSG 120-500

The PMSG 120-500 combines a PMS 120 motor with a gear and an output torque of up to 160 Nm.

DIMENSIONS



TECHNICAL DATA

	Motor data				Gearing data			
	Rated power	Rated speed	Rated load torque	Rated current	Gear ratio	Efficiency	Rated speed	Rated load torque
Voltage	kW	rpm	Nm	A	i	%	rpm	Nm
PMSG 120-500-2-16								
48 VDC	5.5	3000	17.5	126.9	16	94	188	160
	6.0	4500	12.7	134.0	16	94	281	160
96 VDC	6.4	3000	20.4	73.6	16	94	188	160
	7.5	4500	15.9	83.7	16	94	281	160

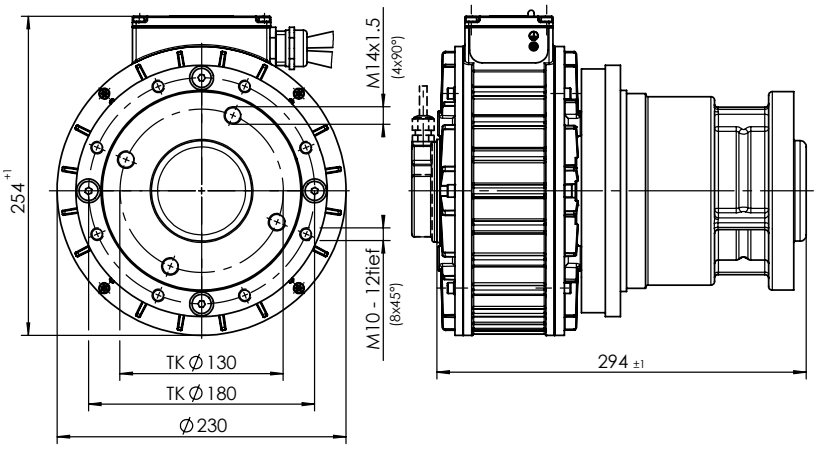
▸ Cooling: Forced ventilation ▸ m = 19.6 kg ▸ Operating mode = S1

Series of PMSG System Solutions

PMSG 120-1500

The PMSG 120-1500 combines a PMS 120 motor with a gear and an output torque of up to 500 Nm.

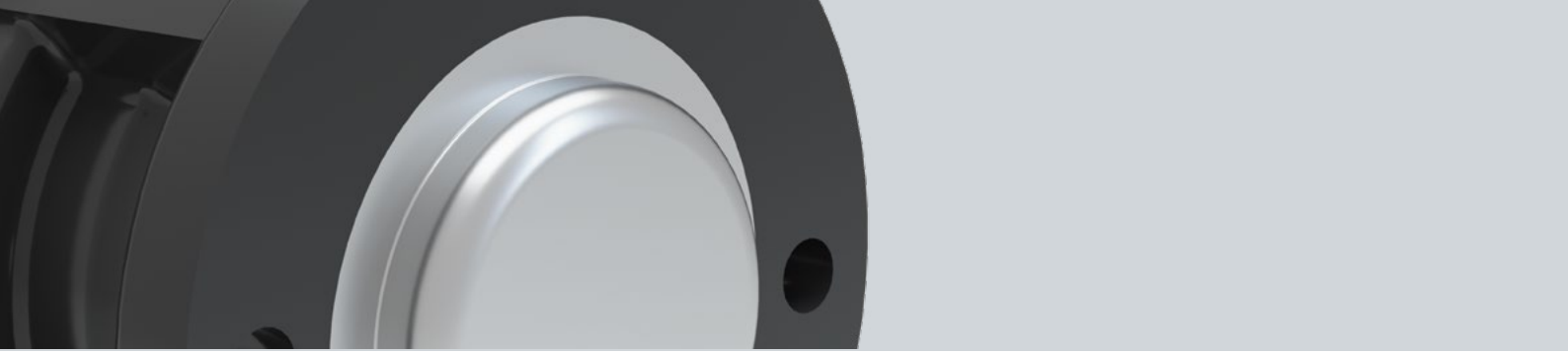
DIMENSIONS



TECHNICAL DATA

	Motor data				Gearing data			
	Rated power	Rated speed	Rated load torque	Rated current	Gear ratio	Efficiency	Rated speed	Rated load torque
Voltage	kW	rpm	Nm	A	i	%	rpm	Nm
PMSG 120-1500-2-40								
48 VDC	5.5	3000	17.5	126.9	40	94	75	500
	6.0	4500	12.7	134.0	40	94	113	500
96 VDC	6.4	3000	20.4	73.6	40	94	75	500
	7.5	4500	15.9	83.7	40	94	113	500

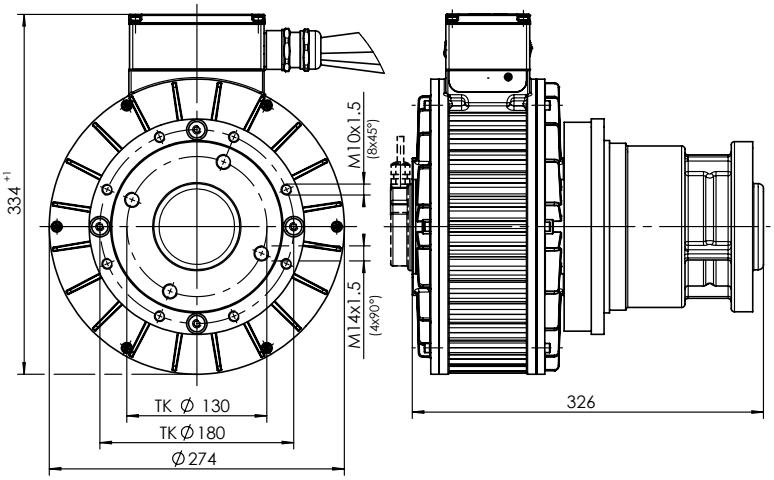
▸ Cooling: Forced ventilation ▸ m = 27.8 kg ▸ Operating mode = S1



PMSG 150-1500

The PMSG 150-1500 combines a PMS 150 motor with a gear and an output torque of up to 500 Nm.

DIMENSIONS



TECHNICAL DATA

	Motor data				Gearing data			
	Rated power	Rated speed	Rated load torque	Rated current	Gear ratio	Efficiency	Rated speed	Rated load torque
Voltage	kW	rpm	Nm	A	i	%	rpm	Nm
PMSG 150-1500-2-16								
48 VDC	8.5	3000	27.1	191.9	16	94	188	408
	8.5	4500	18.0	190.8	16	94	281	270
96 VDC	10.5	3000	33.4	130.8	16	94	188	500
	14.0	4500	29.7	167.4	16	94	281	447
PMSG 150-1500-2-40								
48 VDC	8.5	3000	27.1	191.9	40	94	75	500
	8.5	4500	18.0	190.8	40	94	113	500
96 VDC	10.5	3000	33.4	130.8	40	94	75	500
	14.0	4500	29.7	167.4	40	94	113	500

▸ Cooling: Forced ventilation ▸ m = 37.8 kg ▸ Operating mode = S1