



Van der Graaf
Power Transmission Equipment



TM500-60

Drummotor

Product information

www.vandergraafpte.nl

Selection table TM500-60

TYPE	Power (kW)	Beltspeed at 50 Hz (m/s) Beltpull (N)										Min. L (mm) Design A / B		Full load curr. at 400 V/50 Hz (A)	Weight L=850 (kg)		
		4,40 4750	3,80 5500														
230 Z	22,00	4,40 4750	3,80 5500											700 (TB 750)	750 (TB 800)	39,0	393
230 ZV		3,20 6530	2,70 7740														
225 Z	18,50	4,40 3990	3,80 4625	3,20 5490										700 (TB 750)	750 (TB 800)	32,5	393
225 ZV		2,70 6505															
220 Z	15,00	2,70 5275	2,30 6195											650 (TB 700)	700 (TB 750)	26,0	383
220 ZV		2,00 7125	1,60 8905														
415	11,00	4,70 2225	3,40 3075	3,00 3485	2,60 4020									650	700	21,0	383
415 Z		2,20 4750	1,90 5500														
415 ZV		1,60 6530	1,30 8040														
410	7,50	4,70 1515	3,40 2095	2,90 2455	2,60 2740	2,10 3395	1,85 3850	1,60 4455						600	650	14,5	368
410 Z		1,40 5090	1,20 5940														
410 ZV		1,00 7125	0,80 8905														
475	5,50	4,70 1110	3,40 1535	3,20 1635	2,90 1800	2,60 2010	2,10 2490	1,85 2825	1,60 3265	1,20 4355				600	650	12,0	363
475 Z		1,00 5225															
475 ZV		0,80 6530															
455	4,00	4,70 810	3,40 1120	3,20 1190	2,90 1310	2,60 1460	2,10 1810	1,85 2055	1,60 2375	1,20 3165				600	650	9,5	358
455 Z		1,00 3800	0,80 4750														
655	4,00	1,90 2000	1,40 2715											600	650	9,2	363
655 Z		0,75 5065	0,65 5845														
655 ZV		0,55 6910															
640	3,00	2,10 1355	1,90 1500	1,40 2035	1,10 2590	0,80 3565								600	650	7,0	358
640 Z		0,75 3800	0,65 4385	0,55 5180													

Available standard facewidth's: 600 - 650 - 700 - 750 - 800 - 850 - 900 - 950 - 1000 - 1050 - 1100 - 1150 - 1400 - 1600 mm.






The total weight of a drummotor grows approx. 23 kg per 100 mm.

When an electro-mechanical brake is fitted, the minimum facewidth is increased by 150 mm.

When a backstop is fitted in a 2-pole drum motor, the minimum facewidth is increased by 50 mm.

Available torque Nm: (Beltpull N x Drumdiameter m) / 2

Options

	Specification	Standard	Optional
 CONSTRUCTION	Shafts and bolts	Mild steel	Stainless steel
	Endflanges	Cast iron	Stainless steel
	Shell	Mild steel	Stainless steel
	Junctionbox	Cast iron	Stainless steel
	Cable		Shielded or non-shielded
	Sealing mild steel	RB	HD, MFS
	Sealing stainless steel		RB, HD, MFS
 SHELL	Crowned	•	
	Cylindrical		•
	Lagging, cold vulcanised		•
	Lagging, hot vulcanised		•
	Lagging, FDA approved		•
 ELECTRO MOTOR	Three-phase asynchronous	•	
	Power supply	400/690 V - 50 Hz	Other voltages and frequencies on request
	Twin drive (double power)		•
	Insulation class	F	H
	Thermal protection		Bi-metal or thermistor
	Run by frequency inverter	•	
 OTHER OPTIONS	Food grade oil		•
	Backstop, mechanical		•
	Brake, electro mechanical		•
	Other facewidth's		•
	Special shaft dimensions		•
	Encoder or sensorbearing in drum motor		•
	Sensorbearing in tail drum		•
 CERTIFICATES	CE	•	
	UL		•
	CSA		•
	ATEX zone 22, dust		•

Our drummotors, an overview

Drummotor type	Drum diameter (mm)	Shaft diameter (mm)	Power (kW)	Speed (m/s)	Max. Beltpull (N)
TM80B20	80	20	0,07 - 0,12	0,11 - 1,15	598
TM100B25	100	25	0,08 - 0,37	0,007 - 3,60	1300
TM113B25	113	25	0,12 - 0,55	0,008 - 4,40	1150
TM127-25	127	25	0,25 - 1,10	0,016 - 2,60	4100
TM138-25	138	25	0,25 - 1,10	0,017 - 2,80	3800
TM160-25	160	25	0,25 - 0,75	0,31 - 3,30	1135
TM160-30	160	30	0,25 - 2,20	0,11 - 4,00	3000
TM215-30	215	30	0,25 - 2,20	0,27 - 5,30	1900
TM215-40	215	40	0,75 - 5,5	0,17 - 4,70	5115
TM215B50	215	50	1,5 - 7,0	0,18 - 0,62	11500
TM273-40	273	40	0,75 - 5,50	0,21 - 5,00	4355
TM315-40	315	40	0,75 - 5,50	0,40 - 5,20	4020
TM315-50	315	50	2,2 - 11,0	0,34 - 4,40	7125
TM315-60	315	60	3,0 - 11,0	0,22 - 1,40	12790
TM400-50	400	50	2,2 - 11,0	0,40 - 4,80	5700
TM400-60	400	60	3,0 - 22,0	0,45 - 4,20	10960
TM500-60	500	60	3,0 - 22,0	0,55 - 4,40	8905
TM500A75	500	75	15,0 - 30,0	1,00 - 3,20	14250
TM500A100	500	100	15,0 - 30,0	0,55 - 1,25	25300
TM620A75	620	75	15,0 - 30,0	1,25 - 3,90	11400
TM630A100	630	100	37,0 - 55,0	1,60 - 4,00	21970
TM800A100	800	100	37,0 - 55,0	2,00 - 5,10	17575
TM800A130	800	130	55,0 - 132,0	2,00 - 4,50	35625

Contact us

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Representatives

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