



Van der Graaf
Power Transmission Equipment



TM80B20

Drummotor

Product information

www.vandergraafpte.nl

Selection table TM80B20

TYPE	Power (kW)	Beltspeed at 50 Hz (m/s) Beltpull (N)										Min. L (mm) Design B	Full load curr. at 400 V/50 Hz (A)	Weight L=350 (kg)
		1,15 98	0,93 121	0,65 174										
216 Z	0,12	1,15 98	0,93 121	0,65 174								250	0,36	6,6
216 ST3-Z		0,44 256	0,36 313	0,25 451										
409 Z	0,07	0,49 134	0,40 165	0,28 235								250	0,32	6,6
409 ST3-Z		0,19 346	0,15 439	0,11 598										

* L= 220 to 250 on request

Available standard facewidth's: 250 - 300 - 350 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 mm

Minimum facewidth can deviate, see cable exit options.

The total weight of a drummotor grows approx. 1,25 kg per 100 mm

When an electro-mechanical brake is fitted, the minimum facewidth is increased by 50 mm

Available torque Nm: $(\text{Beltpull N} \times \text{Drum diameter m}) / 2$

Options

	Specification	Standard	Optional
 CONSTRUCTION	Shafts and bolts	Steel	Stainless steel
	Endflanges	Steel	Stainless steel
	Shell	Mild steel	Stainless steel
	Junctionbox	•	•
	Cable	Non-shielded	Shielded
	Sealing mild steel	HD-1	•
	Sealing stainless steel	FS	HD-1
 SHELL	Crowned	•	•
	Cylindrical		•
	Balanced		•
	Lagging, cold vulcanised		•
	Lagging, hot vulcanised		•
	Lagging, FDA approved		•
	Profiled for modular belts		•
	Sprockets		•
 ELECTRO MOTOR	Three-phase asynchronous	•	Other voltages and frequencies on request
	Power supply	230 or 400 V - 50 Hz	
	Insulation class	F	•
	Thermal protection		Bi-metal or thermistor
	Run by frequency inverter	•	
 OTHER OPTIONS	Food grade oil		•
	Backstop, mechanical		•
	Brake, electro mechanical		•
	Inclined or vertical position		•
	Other facewidth's		•
	Special shaft dimensions		•
	Sensorbearing in drum motor		•
	Sensorbearing in tail drum		•
 CERTIFICATES	CE	•	
	UL		•
	CSA		•
	ATEX zone 22, dust		•
	IP69K		•

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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