



Van der Graaf
Power Transmission Equipment



TM138-25

Drummotor

Product information

www.vandergraafpte.nl

Selection table TM138-25

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=350 (kg)
		2,80 375	2,20 475	1,80 580	1,40 745	1,10 950	0,85 1230						
215 Z	1,10	2,80 375	2,20 475	1,80 580	1,40 745	1,10 950	0,85 1230			300	325	2,2	22
215 PL2		0,65 1555	0,50 2025	0,45 2245	0,35 2890					350	375		
415 Z	1,10	1,40 745	1,10 950	0,90 1160						325	350	2,8	23
210 Z	0,75	2,80 255	2,20 325	1,80 395						300	325	1,4	22
210 PL2		0,45 1530								350	375		
410 Z	0,75	1,40 510	1,10 650	0,90 790	0,70 1015	0,55 1295				300	325	1,9	22
410 PL2		0,32 2155	0,26 2655	0,22 3135	0,17 3800					350	375		
275 Z	0,55	2,80 185	2,20 240	1,80 290						275	300	1,1	20
475 Z	0,55	1,40 375	1,10 475	0,90 580	0,70 745	0,55 950	0,45 1160			275	300	1,4	20
475 PL2		0,32 1580	0,26 1945	0,22 2300	0,17 2975					325	350		
405 Z	0,37	1,40 250	1,10 320	0,90 390	0,70 500	0,55 640	0,45 780	0,35 1005		275	300	1,0	19
405 PL2		0,22 1545	0,17 2000							325	350		
605 Z	0,37	0,27 1300								275	300	1,1	20
605 PL2		0,15 2270	0,12 2835							325	350		
434 Z	0,25	1,40 170	1,10 215	0,90 265	0,70 340	0,55 430	0,45 530	0,35 680		250	275	0,7	18
434 ST3-Z		0,27 860	0,22 1055	0,17 1370						275	300		
434 PL3		0,050 3800	0,039 3800	0,034 3800	0,026 3800					350	375		
634 ST3-Z	0,25	0,19 1225								300	325	0,8	20
634 PL2		0,15 1535	0,12 1915							325	350		
634 PL3		0,022 3800	0,017 3800							375	400		

Available standard facewidth's: 250 - 275 - 300 - 325 - 350 - 375 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 - 850 - 900 - 950 - 1000 mm.

Minimum facewidth can deviate, see cable exit options.

The total weight of a drummotor grows approx. 2,5 kg per 100 mm.

When an electro-mechanical brake is fitted, the minimum facewidth is increased by 75 mm

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

Beltpull/-torque max. : 3800 N / 260 Nm (lmax upon request)

Selection table TM138-25 Dahlander

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=350 (kg)
		1,40/2,80 375/255	1,10/2,20 475/325	0,90/1,80 580/395	0,70/1,40 745/510	0,55/1,10 950/650	0,45/0,90 1160/790						
475/210 Z	0,55/ 0,75	1,40/2,80 375/255	1,10/2,20 475/325	0,90/1,80 580/395	0,70/1,40 745/510	0,55/1,10 950/650	0,45/0,90 1160/790			300	325	1,4/ 1,7	22
475/210 PL2		0,32/0,64 1580/1080	0,26/0,52 1945/1325	0,22/0,44 2300/1570	0,17/0,34 2975/2030					350	375		
437/275 Z	0,27/ 0,55	1,40/2,80 180	1,10/2,20 240	0,90/1,80 290	0,70/1,40 375	0,55/1,10 475	0,45/0,90 580	0,35/0,70 745		275	300	0,9/ 1,3	20
437/275 ST3-Z		0,27/0,54 950	0,22/0,44 1165	0,17/0,34 1370						300	325		

Available standard facewidth's: 275 - 300 - 325 - 350 - 375 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 - 850 - 900 - 950 - 1000 mm.






Minimum facewidth can deviate, see cable exit options.

The total weight of a drummotor grows approx. 2,5 kg per 100 mm.

When an electro-mechanical brake is fitted, the minimum facewidth is increased by 75 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 or polyamide
	Cable		Shielded or non-shielded
	Sealing mild steel	RB	RBS, HD-1
	Sealing stainless steel	CR	FS, HD-1, HD-2
 SHELL	Crowned	•	
	Cylindrical		•
	Balanced		•
	Lagging, cold vulcanised		•
	Lagging, hot vulcanised		•
	Lagging, FDA approved		•
	Fitted with grooves, patterns		•
	Sprockets		•
 ELECTRO MOTOR	Three-phase asynchronous	•	
	Power supply	230/400 V - 50 Hz	Other voltages and frequencies on request
	Two speed (Dahlander)		•
	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		•
	Different shaft designs		•
	Encoder or sensorbearing in drum motor		•
	Encoder or 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)	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
TM315B60	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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