



Van der Graaf
Power Transmission Equipment



TM315-40

Drummotor

Product information

www.vandergraafpte.nl

Selection table TM315-40

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=600 (kg)
		5,20 1005	4,10 1275	3,70 1410											
275	5,50	5,20 1005	4,10 1275	3,70 1410								500	550	11,0	127
275 Z		3,00 1740	2,50 2090	2,30 2270											
275 ZV		2,10 2490	1,90 2750	1,60 3265	1,50 3485	1,40 3730	1,30 4020								
255	4,00	5,20 730	4,10 925	3,70 1025								500	550	7,9	122
255 Z		3,00 1265	2,50 1520	2,30 1650	2,10 1810	1,90 2000	1,60 2375								
255 ZV		1,50 2535	1,40 2715	1,30 2925											
440	3,00	4,30 665	3,50 815	2,90 985	2,60 1095	2,10 1355	1,80 1585					500	550	6,6	122
440 ZV		1,50 1900	1,30 2190												
440 ZV		1,10 2590	0,95 3000												
430	2,20	4,30 485	3,50 595	3,00 695	2,50 835	2,10 995	1,80 1160	1,50 1395	1,30 1610			500	500	4,7	122
430 Z		1,00 2090	0,90 2320												
430 ZV		0,80 2615	0,75 2785	0,70 2985	0,65 3215										
420	1,50	4,30 330	3,50 405	3,00 475	2,50 570	2,10 680	1,80 790	1,50 950	1,30 1095	1,10 1295	1,00 1425	500	500	3,6	117
420 Z		0,90 1585	0,80 1780	0,75 1900	0,70 2035	0,65 2190	0,60 2375								
620 ZV	1,50	0,55 2590	0,50 2850	0,45 3165	0,40 3565							500	550	3,7	122
415	1,10	4,30 245	3,50 300	3,00 350	2,50 420	2,10 500	1,80 580	1,50 695	1,30 805	1,10 950	1,00 1045	500	500	2,9	112
415 Z		0,90 1160	0,80 1305	0,75 1395	0,70 1495	0,65 1610	0,60 1740								
615 Z	1,10	0,55 1900	0,50 2090	0,45 2320								500	500	2,9	117
615 ZV		0,40 2615													
610	0,75	2,10 340	1,70 420	1,40 510	1,25 570	1,00 715	0,90 790	0,75 950	0,70 1015	0,60 1190		500	500	2,5	117
610 Z		0,55 1295	0,50 1425	0,45 1585	0,40 1780										

Available standard facewidth's: 500 - 550 - 600 - 650 - 700 - 750 - 800 - 850 - 900 - 950 - 1000 - 1050 - 1100 - 1150 mm.



Minimum facewidth can deviate, see cable exit options.

The total weight of a drummotor grows approx. 9 kg per 100 mm.

When an electro-mechanical brake is fitted, the minimum facewidth is increased by 100 mm.

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

Options

	Specification	Standard	Optional
 <h2>CONSTRUCTION</h2>	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
 <h2>SHELL</h2>	Crowned	•	
	Cylindrical		•
	Balanced		•
	Lagging, cold vulcanised		•
	Lagging, hot vulcanised		•
	Lagging, FDA approved		•
 <h2>ELECTRO MOTOR</h2>	Three-phase asynchronous	•	
	Power supply (P ≤ 3 kW)	230/400 V - 50 Hz	Other voltages and frequencies on request
	Power supply (P > 3 kW)	400/690 V - 50 Hz	Other voltages and frequencies on request
	Insulation class	F	•
	Thermal protection		Bi-metal or thermistor
	Run by frequency inverter	•	
 <h2>OTHER OPTIONS</h2>	Food grade oil		•
	Backstop, mechanical		•
	Brake, electro mechanical		•
	Inclined or vertical position		•
	Other facewidth's		•
	Special shaft dimensions		•
	Encoder or sensorbearing in drum motor		•
	Sensorbearing in tail drum		•
 <h2>CERTIFICATES</h2>	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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