

Axis TM138 Motorised Drum

General Features

- Diameter Ø138mm
- High duty helical steel gear unit
- Standard lengths from 300mm
- Asynchronous three-phase motor
- 0.09Kw to 1.0Kw input power
- Insulation Class F (DIN EN 60034-1)
- Mild or stainless steel construction
- Crowned drum surface
- Lubricated with synthetic oil
- Special coatings and sprocket options available



Axis TM138 Dimensions

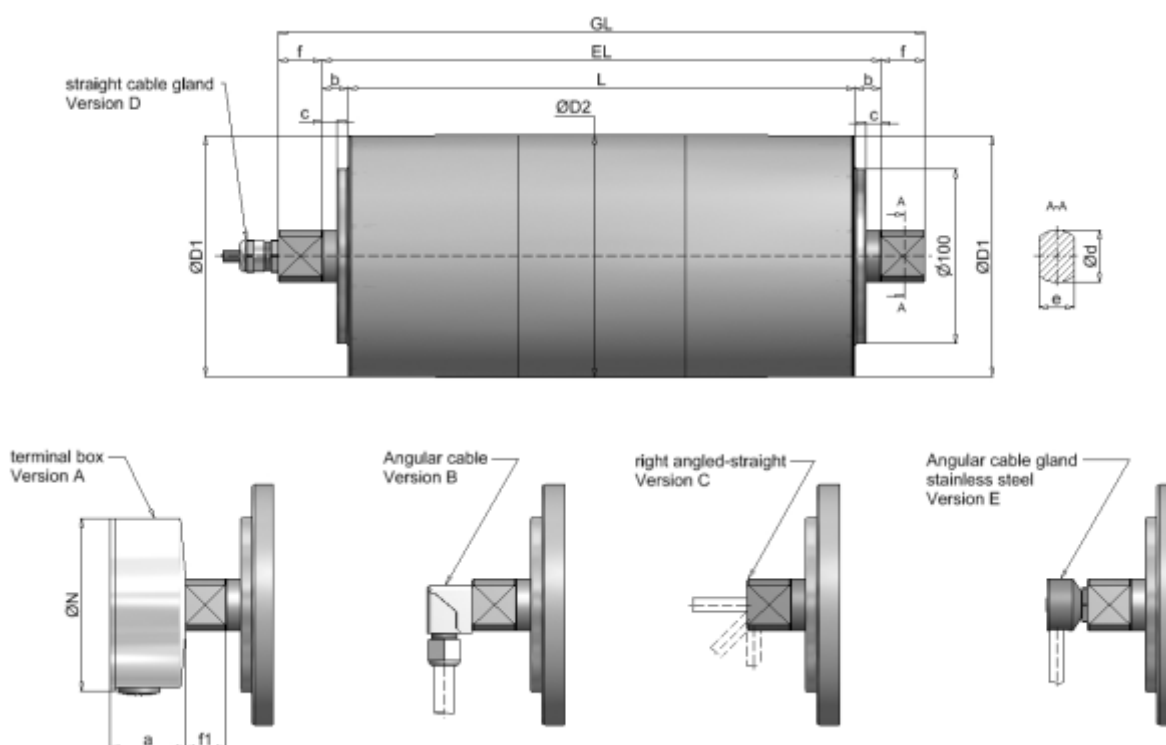


Figure 9.1

dimensions in mm

DRUM MOTOR											STANDARD IP66	
size	Type	ØD1	ØD2	a	ØN	c	Ød	e	f	f1	b	EL
138	TM 138.1	137,5	139	43	100	8,5	30	20	25	23	15	L + 30
GUIDE DRUM												
138	UT 138.1	137,5	139			8,5	30	20	25		15	

* with 1m cable

** diameter with cylindrical drum design 137mm

Axis TM138 Motorised Drum

Axis TM138 Performance Data

TYPE	POWER	BELT SPEED	ROTATION SPEED	BELT PULL	TORQUE	POWER INPUT AT 400V / 50Hz	DRUM LENGTH	WEIGHT
		v	n2	F	T2		L min.	L=400mm
	[kW]	[m/s]	[1/min]	[N]	[Nm]		[mm]	[kg]
TM138	0,09 12-pole	0,04	6	2218	153	0,82	300	15
		0,05	7	1797	124			
		0,06	8	1478	102			
		0,07	9	1362	94			
		0,08	10	1198	83			
		0,11	15	826	57			
		0,08	11	1093	75			
		0,1	14	908	63			
		0,12	17	728	50			
		0,16	23	550	38			
		0,15	21	591	41			
		0,19	26	479	33			
		0,25	34	363	25			
		0,31	43	291	20			
		0,41	57	220	15			
TM138	0,18 8-pole	0,07	9	2739	189	0,80	300	15
		0,08	11	2219	153			
		0,1	14	1826	126			
		0,11	15	1683	116			
		0,12	17	1480	102			
		0,13	18	1350	93			
		0,16	22	1122	77			
		0,18	24	1020	70			
		0,2	28	900	62			
		0,25	34	731	50			
		0,26	37	680	47			
		0,3	42	592	41			
		0,4	56	449	31			
		0,5	69	360	25			
		0,66	92	272	19			
TM138	0,25 6-pole	0,09	12	2782	192	0,85	300	15
		0,11	15	2254	156			
		0,13	19	1855	128			
		0,15	20	1709	118			
		0,17	23	1503	104			
		0,18	25	1371	95			
		0,22	30	1139	79			
		0,24	33	1036	71			
		0,27	38	914	63			
		0,34	47	742	51			
		0,36	50	691	48			
		0,42	58	601	41			
		0,55	76	456	31			
		0,68	95	366	25			
		0,91	125	276	19			

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TYPE	POWER	BELT SPEED	ROTATION SPEED	BELT PULL	TORQUE	POWER INPUT AT 400V / 50Hz	DRUM LENGTH L min.	WEIGHT L=400mm
		v	n2	F	T2			
	[kW]	[m/s]	[1/min]	[N]	[Nm]			
TM138	0,25 4-pole	0,14	19	1848	128	0,80	300	15
		0,17	23	1497	103			
		0,2	28	1232	85			
		0,22	30	1135	78			
		0,25	35	998	69			
		0,27	38	911	63			
		0,33	46	757	52			
		0,35	50	688	47			
		0,41	57	607	42			
		0,51	70	493	34			
		0,55	75	459	32			
		0,63	87	399	28			
		0,83	114	303	21			
		1,03	143	243	17			
		1,36	189	183	13			
TM138	0,37 4-pole	0,14	19	2735	189	1,10	300	15
		0,17	23	2216	153			
		0,2	28	1823	126			
		0,22	30	1680	116			
		0,25	35	1477	102			
		0,27	38	1348	93			
		0,33	46	1120	77			
		0,36	50	1018	70			
		0,41	57	898	62			
		0,51	70	729	50			
		0,55	75	679	47			
		0,63	87	591	41			
		0,83	114	448	31			
		1,03	143	359	25			
		1,36	189	271	19			
TM138	0,55 4-pole	0,2	28	2740	189	1,60	300	15
		0,22	30	2525	174			
		0,25	34	2220	153			
		0,27	38	2025	140			
		0,33	45	1683	116			
		0,36	50	1530	106			
		0,41	56	1350	93			
		0,5	69	1096	76			
		0,54	75	1020	70			
		0,62	86	888	61			
		0,82	113	673	46			
		1,02	141	540	37			
		1,35	187	408	28			

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TYPE	POWER	BELT SPEED	ROTATION SPEED	BELT PULL	TORQUE	POWER INPUT AT 400V / 50Hz	DRUM LENGTH	WEIGHT
		v	n2	F	T2		L min.	L=400mm
	[kW]	[m/s]	[1/min]	[N]	[Nm]	[A]	[mm]	[kg]
TM138	0,75 4-pole	0,32	44	2338	161	2,20	300	15
		0,35	49	2125	147			
		0,4	55	1875	129			
		0,49	68	1522	105			
		0,53	73	1417	98			
		0,61	84	1233	85			
		0,8	111	935	65			
		1	138	750	52			
		1,32	183	566	39			
TM138	0,75 2-pole	0,27	37	2802	193	1,90	300	15
		0,33	46	2270	157			
		0,4	56	1868	129			
		0,44	60	1721	119			
		0,5	69	1513	104			
		0,54	75	1381	95			
		0,65	90	1148	79			
		0,72	99	1043	72			
		0,81	113	920	64			
		1	139	747	52			
		1,08	149	696	48			
		1,24	171	605	42			
		1,63	226	459	32			
		2,04	282	368	25			
		2,7	373	278	19			
TM138	0,90 2-pole	0,33	46	2695	186	1,95	300	15
		0,41	56	2218	153			
		0,44	61	2044	141			
		0,5	69	1797	124			
		0,55	76	1639	113			
		0,66	91	1362	94			
		0,73	101	1239	85			
		0,82	114	1093	75			
		1,01	140	887	61			
		1,09	151	826	57			
		1,25	173	719	50			
		1,65	229	545	38			
		2,06	285	437	30			
		2,73	377	330	23			
TM138	1,00 4-pole	0,32	45	2795	193	2,6	360	15
		0,35	49	2541	175			
		0,4	56	2241	155			
		0,49	68	1820	126			
		0,53	74	1694	117			
		0,61	85	1474	102			
		0,81	111	1118	77			
		1	139	897	62			
		1,33	184	677	47			

- alternative performance data and speeds on request
- indication of weight incl. oil filling (ready for operating)
- additional weight: approx. 2kg for 100mm add. length
- with brake mounting L min. dimension raises up 100mm

Axis TM138 Design & Options

Standard Configuration

- Crowned shell, mild steel with rust protection paint
- Aluminium bearing covers
- Mild steel shafts with rust protection paint
- Helical gear unit with steel toothing (quiet)
- IP66 Ingress Protection
- Straight cable gland with 1m cable

Options

- Internal brake
 - Terminal box connection
 - Angular cable gland (with 1m cable)
 - Right angled-straight cable gland (with 1m cable)
 - Mechanical backstop
 - Sprocket / toothed belt disc
 - Sensor bearing unit (rotary encoder)
 - Cylindrical drum shell, coated, zinc plated
 - Stainless steel design
 - Custom windings for special voltages
 - Thermal overload protection
 - IP67 Ingress Protection rating
 - Suitable for frequency converter use
 - For modular plastic conveyor belts and grooved rubber lagging
 - Terminal box design in stainless steel
 - Vertical mounting (should be stated in the order)
 - Food-safe lubricant
 - Single-phase motors on request
 - UL & CSA certification
- Alternative custom designs also available - please enquire.

Axis TM138 Clamping Bearing

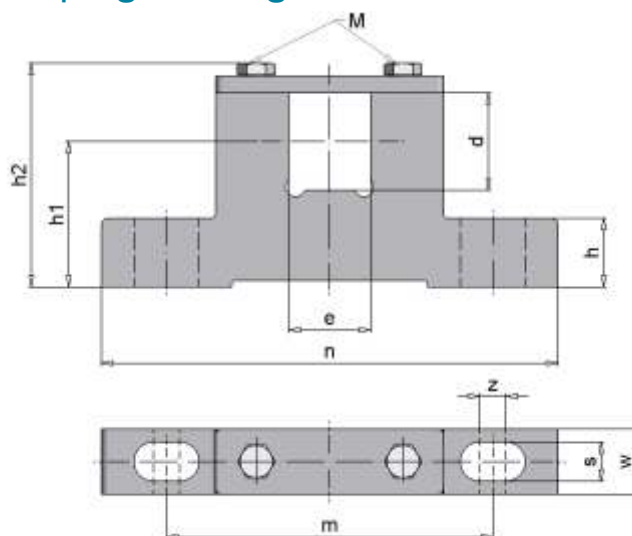


Figure 9.2

dimensions in mm

DRUM TYPE	CLAMPING BEARING	d	e	h	h1	h2	m	n	s	w	z	M	Material	KG
TM138.1	EL30/20	30	20	21	44,5	68,5	100	140	12	24	8	M6	Steel	0,7



Indicative Applications

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