

KBM Frameless Direct Drives

The Most Flexible Way to Build Drives

The KBM direct drives with no housing offer the greatest possible flexibility for drive solutions with torque motors. These kit motors are connected to the machine shaft directly and do not require any additional mechanical components for power transmission. They meet especially high demands in relation to performance data, durability, and simple installation.



Features

- Fully encapsulated stator winding
- Designed for continuous winding temperature of 155°C
- PTC thermistor for overload protection
- Magnet material - rare earth neodymium-iron-boron
- Protective tape overlay of the rotor magnets*
- RoHS-compatible

* Not with KBM 163 and KBM 260

Option KBM with Hall Sensors (KBMS)

Version with factory-preset hall sensors mounted on the front of the stator. The rotor length of the KBMS models is extended axially to ensure safe triggering.

Modifications

Kollmorgen offers a range of standard modifications for perfect tailoring of the KBM(S) motors to your specifications. Our engineering team will be happy to advise you and will prepare a proposal based on your specifications.

Different Winding Types

The motor windings can be optimized so that the desired performance data for speed and torque can be achieved at a given operating voltage and a specified current consumption.

Rotor Hub Dimensions

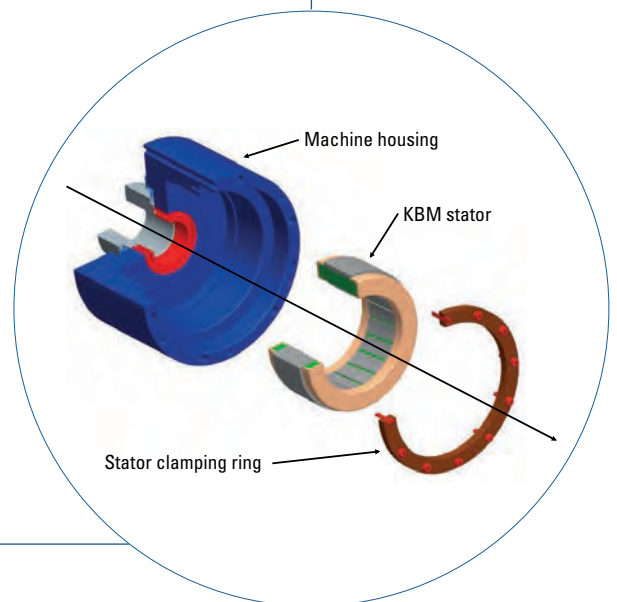
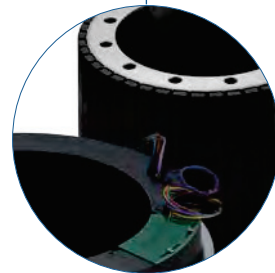
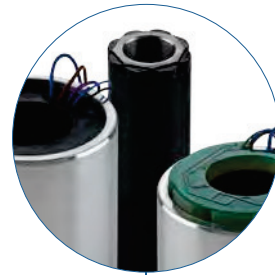
Rotor hubs can be offered with different customer-specific hole patterns, fastening options, or smaller internal bore diameters. The technical data specifies the largest bore diameter available in each case.

Rotor Hub Design

In the standard version the rotor hubs of KBM(S) motors are produced from uncoated, cold-rolled steel. Other versions such as coated, painted, cleaned version or versions made from another material, are possible. Please contact us.

Stator Sheathing Design

In the standard version, the KBM(S) motors 10, 14, 17, 25, 35, 45, 163, and 260 are equipped with a stator sheathing made from uncoated aluminum. Other versions with painted or coated aluminum are possible. Please inquire. However, the stator sheathings can only be supplied for the motor sizes listed above.

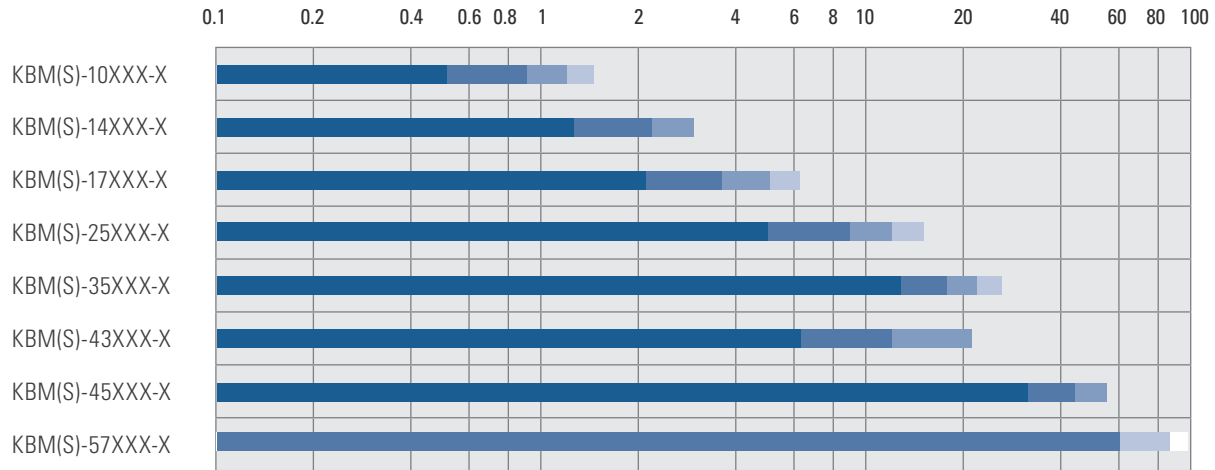


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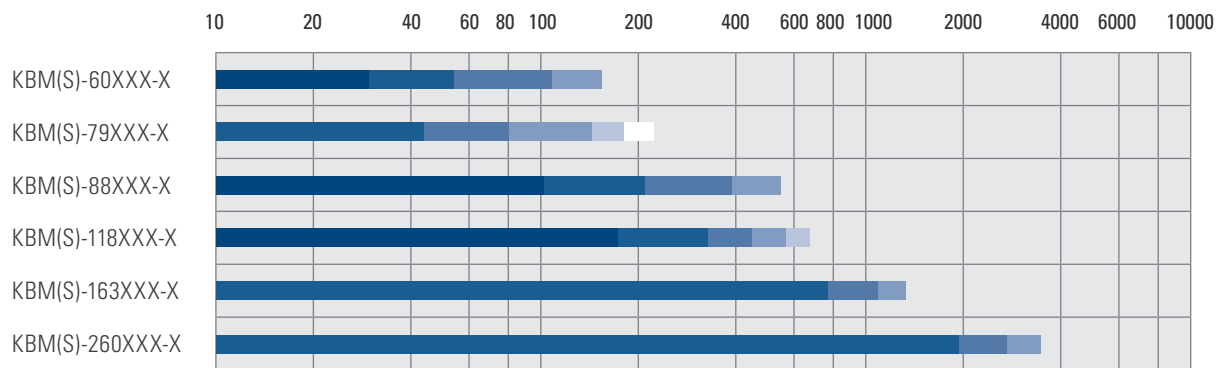
Performance Overview

00 Stack 01 Stack 02 Stack 03 Stack 04 Stack 05 Stack

Continuous Standstill Torque Tc in Nm



Continuous Standstill Torque Tc in Nm



You can find more information and interactive 3D models with 2D product views at www.kollmorgen.com.

Performance Data

KBM(S)-	Servo amp. type	Continuous standstill torque ¹⁾ [Nm]	Continuous standstill current [A]	Peak standstill moment ²⁾ [Nm]	Peak current [A]	Rated speed [rpm ⁻¹]	Rated power ^{1),3)} [W]	Weight KBM/KBMS	Moment of inertia KBM/KBMS
10X01-A	00307	0.487	1.73	1.17	4.33	15200	550	0.379 / 0.425	4.92E-6 / 1.03E-5
10X01-B	00606	0.509	3.37	1.19	8.70	18500	600	0.379 / 0.425	4.92E-6 / 1.03E-5
10X01-C	00606	0.492	5.21	1.23	13.8	18600	575	0.379 / 0.425	4.92E-6 / 1.03E-5
10X02-A	00307	0.876	1.53	2.33	4.33	11000	740	0.658 / 0.703	1.03E-5 / 1.49E-5
10X02-B	00307	0.899	3.00	2.48	8.65	15200	785	0.658 / 0.703	1.03E-5 / 1.49E-5
10X02-C	00606	0.868	5.14	2.24	15.5	17000	710	0.658 / 0.703	1.03E-5 / 1.49E-5
10X03-A	00307	1.16	1.54	3.46	4.86	8500	780	0.943 / 0.990	1.55E-5 / 2.02E-5
10X03-B	00307	1.16	2.40	3.53	7.73	14300	740	0.943 / 0.990	1.55E-5 / 2.02E-5
10X03-C	00607	1.19	3.10	3.58	9.72	14500	725	0.943 / 0.990	1.55E-5 / 2.02E-5
10X03-D	00606	1.18	4.66	3.69	15.5	13000	850	0.943 / 0.990	1.55E-5 / 2.02E-5
10X04-A	00307	1.45	1.60	4.66	5.46	7050	820	1.22 / 1.26	2.01E-5 / 2.55E-5
10X04-B	00307	1.41	2.40	4.75	8.70	11500	860	1.22 / 1.26	2.01E-5 / 2.55E-5
10X04-C	00607	1.44	3.10	4.80	10.9	12000	835	1.22 / 1.26	2.01E-5 / 2.55E-5
10X04-D	00606	1.41	4.21	4.91	15.5	9500	910	1.22 / 1.26	2.01E-5 / 2.55E-5
14X01-A	00307	1.22	1.53	3.28	4.32	7950	735	0.898 / 1.00	2.41E-5 / 3.36E-5
14X01-B	00607	1.25	3.25	3.43	9.63	12000	700	0.898 / 1.00	2.41E-5 / 3.36E-5
14X01-C	01206	1.21	6.25	3.59	19.4	13500	915	0.898 / 1.00	2.41E-5 / 3.36E-5
14X02-A	00370	2.08	1.59	6.67	5.39	4900	845	1.59 / 1.68	4.88E-5 / 5.56E-5
14X02-B	00307	2.08	2.42	6.83	8.57	7700	1000	1.59 / 1.68	4.88E-5 / 5.56E-5
14X02-C	00607	2.11	3.10	6.98	10.9	10250 / 8000	585 / 1000	1.59 / 1.68	4.88E-5 / 5.56E-5
14X02-D	01206	2.17	5.97	7.31	21.8	8900	975	1.59 / 1.68	4.88E-5 / 5.56E-5
14X03-A	00307	2.82	1.64	10.1	6.12	3600	875	2.98 / 3.08	7.31E-5 / 8.81E-5
14X03-B	00307	2.87	2.81	10.5	10.9	6500 / 5225	1215 / 1175	2.98 / 3.08	7.31E-5 / 8.81E-5
14X03-C	01206	2.92	6.04	10.5	24.5	6600	1230	2.98 / 3.08	7.31E-5 / 8.81E-5
17X01-A	00307	2.08	1.65	5.95	5.45	4650	810	1.05 / 1.16	5.12E-5 / 8.62E-5
17X01-B	00607	2.06	3.11	6.14	10.9	9600 / 8125	715 / 955	1.05 / 1.16	5.12E-5 / 8.62E-5
17X01-C	01206	2.07	6.10	6.35	21.8	9050	855	1.05 / 1.16	5.12E-5 / 8.62E-5
17X02-A	00307	3.58	1.59	12.2	6.08	2600	835	1.87 / 1.97	9.45E-5 / 1.28E-4
17X02-B	00307	3.52	3.00	12.3	12.2	5450	1270	1.87 / 1.97	9.45E-5 / 1.28E-4
17X02-C	00607	3.57	5.27	12.7	21.9	7560	790	1.87 / 1.97	9.45E-5 / 1.28E-4
17X02-D	01206	3.58	6.25	12.8	24.5	5600	1290	1.87 / 1.97	9.45E-5 / 1.28E-4
17X03-A	00607	4.89	3.06	18.5	13.8	3950	1440	2.65 / 2.76	1.42E-4 / 1.75E-4
17X03-B	00607	4.90	5.32	18.8	24.4	6500	890	2.65 / 2.76	1.42E-4 / 1.75E-4
17X03-C	01207	5.00	6.14	18.8	27.2	6480	965	2.65 / 2.76	1.42E-4 / 1.75E-4
17X03-D	01206	5.00	10.4	19.0	48.0	6100	1275	2.65 / 2.76	1.42E-4 / 1.75E-4
17X04-A	00607	6.20	3.26	23.7	14.5	3350	1520	3.62 / 3.72	2.03E-4 / 2.40E-4
17X04-B	00607	6.12	5.53	23.7	25.0	5700	1075	3.62 / 3.72	2.03E-4 / 2.40E-4
17X04-C	01207	5.90	6.20	23.7	28.1	5775	975	3.62 / 3.72	2.03E-4 / 2.40E-4
17X04-D	01206	5.90	9.56	24.0	44.0	5000	1550	3.62 / 3.72	2.03E-4 / 2.40E-4
25X01-A	00607	4.90	3.10	14.4	10.9	3800	1110	1.79 / 2.02	2.66E-4 / 4.34E-4
25X01-B	00607	4.96	5.34	14.6	19.3	4900	730	1.79 / 2.02	2.66E-4 / 4.34E-4
25X01-C	01206	4.85	6.45	15.0	27.6	4225	1025	1.79 / 2.02	2.66E-4 / 4.34E-4
25X01-D	01206	4.75	7.95	14.9	34.3	4000	1100	1.79 / 2.02	2.66E-4 / 4.34E-4
25X02-A	00607	8.70	3.33	29.4	13.9	2300	1765	3.27 / 3.50	5.15E-4 / 6.78E-4
25X02-B	00607	8.75	5.18	29.7	22.0	4000	2545	3.27 / 3.50	5.15E-4 / 6.78E-4
25X02-C	01207	8.75	6.50	29.7	27.8	5000	2535	3.27 / 3.50	5.15E-4 / 6.78E-4
25X02-D	01207	8.62	8.00	29.8	35.1	6000	1790	3.27 / 3.50	5.15E-4 / 6.78E-4
25X02-E	01207	8.85	10.20	29.8	43.3	6000	1850	3.27 / 3.50	5.15E-4 / 6.78E-4
25X03-A	00607	11.6	5.30	42.2	23.9	2900	2700	4.72 / 4.90	7.66E-4 / 9.31E-4
25X03-B	01207	11.9	7.27	42.3	33.0	4150	2890	4.72 / 4.90	7.66E-4 / 9.31E-4
25X03-C	01207	11.9	8.20	42.4	37.0	4725	2585	4.72 / 4.90	7.66E-4 / 9.31E-4
25X03-D	01207	11.9	10.2	42.6	47.0	2700	2605	4.72 / 4.90	7.66E-4 / 9.31E-4
25X04-A	00607	14.8	5.50	54.4	25.0	2400	2865	6.17 / 6.35	1.02E-3 / 1.18E-3
25X04-B	01207	14.9	6.25	53.8	27.5	2700	3090	6.17 / 6.35	1.02E-3 / 1.18E-3
25X04-C	01207	15.0	8.70	54.4	38.5	3850	3255	6.17 / 6.35	1.02E-3 / 1.18E-3
25X04-D	01207	14.9	10.7	54.8	48.5	4700	1990	6.17 / 6.35	1.02E-3 / 1.18E-3
25X04-E	02407	14.6	13.8	53.8	62.5	4700	1940	6.17 / 6.35	1.02E-3 / 1.18E-3

1) Winding temperature = 155°C in continuous standstill and rated power and as per the power curves 2) With winding temperature at 25°C 3) With ambient temperature at 25°C

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Performance Data

KBM(S)-	Servo amp. type	Continuous standstill torque ¹⁾ [Nm]	Continuous standstill current [A]	Peak standstill moment ²⁾ [Nm]	Peak current [A]	Rated speed [rpm ¹⁾]	Rated power ^{1),3)} [W]	Weight KBM/KBMS	Moment of inertia KBM/KBMS
35X01-A	00607	12.6	5.41	40.9	21.9	2700	2970	4.68/5.17	1.52E-3/2.17E-3
35X01-B	01207	12.7	6.10	40.8	24.5	2900	3100	4.68/5.17	1.52E-3/2.17E-3
35X01-C	01207	12.4	8.32	41.1	34.7	4200	3885	4.68/5.17	1.52E-3/2.17E-3
35X01-D	01207	12.7	10.6	41.2	43.5	5800	3750	4.68/5.17	1.52E-3/2.17E-3
35X01-E	01207	12.2	12.9	41.1	55.4	6125	3200	4.68/5.17	1.52E-3/2.17E-3
35X02-A	00607	17.3	4.97	58.8	22.5	1750	2750	6.76/7.21	2.28E-3/2.94E-3
35X02-B	01207	17.6	6.30	58.8	28.0	2200	3415	6.76/7.21	2.28E-3/2.94E-3
35X02-C	01207	17.5	8.70	59.2	39.2	3200	4395	6.76/7.21	2.28E-3/2.94E-3
35X02-D	01207	17.5	10.9	59.4	49.5	4300	4750	6.76/7.21	2.28E-3/2.94E-3
35X02-E	02407	17.1	12.1	59.4	55.4	3765	4610	6.76/7.21	2.28E-3/2.94E-3
35X03-A	01207	21.8	10.2	76.1	46.1	3100	5025	8.80/9.34	3.04E-3/3.70E-3
35X03-B	02407	21.7	14.0	76.6	64.0	4800	5160	8.80/9.34	3.04E-3/3.70E-3
35X03-C	02407	20.7	20.2	75.2	93.1	5000	2985	8.80/9.34	3.04E-3/3.70E-3
35X03-D	02406	20.0	21.5	75.7	104	3400	4735	8.80/9.34	3.04E-3/3.70E-3
35X04-A	01207	25.6	10.9	92.3	49.0	2800	5400	10.9/11.3	3.81E-3/4.46E-3
35X04-B	02407	25.9	13.3	93.0	61.0	3400	5750	10.9/11.3	3.81E-3/4.46E-3
35X04-C	02407	25.3	14.7	93.0	68.0	4150	4870	10.9/11.3	3.81E-3/4.46E-3
35X04-D	02407	24.7	19.2	91.5	89.0	4250	4500	10.9/11.3	3.81E-3/4.46E-3
43X01-A	00607	6.11	5.10	18.0	18.0	4750	1230	2.26/2.66	1.94E-3/2.85E-3
43X01-B	01206	6.24	8.60	18.0	32.2	4750	1230	2.26/2.66	1.94E-3/2.85E-3
43X01-C	02406	6.11	18.4	18.0	64.6	4750	1230	2.26/2.66	1.94E-3/2.85E-3
43X02-A	00607	11.6	5.10	34.6	18.0	3000	2160	3.49/3.89	2.85E-3/3.73E-3
43X02-B	02406	11.6	18.3	34.6	64.6	2650	2160	3.49/3.89	2.85E-3/3.73E-3
43X02-C	01207	11.9	6.10	34.6	22.8	3000	2160	3.49/3.89	2.85E-3/3.73E-3
43X02-D	01206	11.9	10.2	34.6	36.2	3000	2160	3.49/3.89	2.85E-3/3.73E-3
43X03-A	00607	21.0	4.78	64.5	18.0	1500	2520	5.96/6.35	4.75E-3/5.69E-3
43X03-B	02406	20.7	13.8	64.5	51.2	2275	2875	5.96/6.35	4.75E-3/5.69E-3
43X03-C	00607	20.9	5.73	64.5	22.8	1500	2520	5.96/6.35	4.75E-3/5.69E-3
43X03-D	02406	20.9	19.2	64.5	72.5	1500	2520	5.96/6.35	4.75E-3/5.69E-3
43X04-A	00607	35.1	4.78	113	18.0	830	2600	8.85/9.25	6.44E-3/6.85E-3
43X04-B	00607	35.1	5.60	113	22.8	830	2600	8.85/9.25	6.44E-3/6.85E-3
43X04-C	01206	35.1	9.20	113	36.2	830	2600	8.85/9.25	6.44E-3/6.85E-3
43X05-A	00607	44.2	4.50	153	18.0	620	3500	11.80/12.20	8.54E-3/9.44E-3
43X05-B	00607	44.2	4.50	153	22.8	620	2550	11.80/12.20	8.54E-3/9.44E-3
43X05-C	01206	44.2	4.50	153	36.2	620	2500	11.80/12.20	8.54E-3/9.44E-3
45X01-A	01207	30.7	10.2	119	46.5	2100	5200	12.2/13.2	6.10E-3/8.35E-3
45X01-B	02407	30.2	12.5	119	57.5	2650	5750	12.2/13.2	6.10E-3/8.35E-3
45X01-C	02407	31.3	14.3	119	65.0	3100	6045	12.2/13.2	6.10E-3/8.35E-3
45X01-D	02407	29.7	20.2	118	93.5	3700	4930	17.5/18.5	9.22E-3/1.15E-2
45X02-A	02407	43.7	13.3	170	60.5	1950	6655	17.5/18.5	9.22E-3/1.15E-2
45X02-B	02407	43.5	14.9	171	68.0	2350	7200	17.5/18.5	9.22E-3/1.15E-2
45X02-C	02407	41.9	21.1	168	97.2	3500/2830	4525/6500	23.1/24.2	1.22E-2/1.45E-2
45X03-A	02407	54.6	14.1	218	64.5	1700	7270	23.1/24.2	1.22E-2/1.45E-2
45X02-B	02407	53.0	19.9	215	92.5	2600/2050	7580/7670	23.1/24.2	1.22E-2/1.45E-2
57X01-A	00607	18.8	5.68	60.0	23.4	2050	2310	4.54/5.31	6.56E-3/9.49E-3
57X01-B	01207	18.8	6.90	60.0	27.9	2050	2310	4.54/5.31	6.56E-3/9.49E-3
57X01-C	02406	18.8	11.4	60.0	47.0	2050	2310	4.54/5.31	6.56E-3/9.49E-3
57X02-A	00607	33.5	5.23	115	23.4	1015	2660	7.89/8.62	1.18E-2/1.49E-2
57X02-B	01207	33.5	6.24	115	27.9	1015	2660	7.89/8.62	1.18E-2/1.49E-2
57X02-C	02406	33.5	11.0	115	47.0	1015	2660	7.89/8.62	1.18E-2/1.49E-2
57X03-A	00607	60.0	5.47	2108	26.1	580	3000	14.5/15.4	2.21E-2/2.52E-2
57X03-B	01207	60.0	6.70	218	32.9	580	3000	14.5/15.4	2.21E-2/2.52E-2
57X03-C	02406	60.0	11.0	218	52.4	580	3000	14.5/15.4	2.21E-2/2.52E-2
57X04-A	00607	85.3	5.20	332	26.1	375	2880	22.0/22.9	3.44E-2/3.78E-2
57X04-B	01207	85.3	6.50	332	32.9	375	2880	22.0/22.9	3.44E-2/3.78E-2
57X04-C	02406	85.3	10.6	332	52.4	375	2880	22.0/22.9	3.44E-2/3.78E-2

1) Winding temperature = 155°C in continuous standstill and rated power and as per the power curves 2) With winding temperature at 25°C 3) With ambient temperature at 25°C

Performance Data

KBM(S)-	Servo amp. type	Continuous standstill torque ¹⁾ [Nm]	Continuous standstill current [A]	Peak standstill moment ²⁾ [Nm]	Peak current [A]	Rated speed [rpm ⁻¹]	Rated power ^{1),3)} [W]	Weight KBM/KBMS	Moment of inertia KBM/KBMS
57X05-A	00607	109	5.00	441	26.1	265	2675	29.2/30.1	4.58E-2/4.91E-2
57X05-B	01207	109	6.20	441	32.9	265	2675	29.2/30.1	4.58E-2/4.91E-2
57X05-C	02406	109	10.0	441	52.4	265	2675	29.2/30.1	4.58E-2/4.91E-2
60X00-A	02407	29.4	13.7	69.1	40.0	1700	2960	8.30/10.4	9.53E-3/1.88E-2
60X00-B	02407	29.4	16.8	69.1	50.4	1700	2960	8.30/10.4	9.53E-3/1.88E-2
60X00-C	02406	29.4	22.5	69.1	63.6	1700	2960	8.30/10.4	9.53E-3/1.88E-2
60X01-A	02407	53.9	13.7	127	40.0	1600	4165	13.2/15.3	1.63E-2/2.56E-2
60X01-B	02407	53.9	16.9	127	50.4	1600	4165	13.2/15.3	1.63E-2/2.56E-2
60X01-C	02408	53.9	22.7	127	78.0	1600	4165	13.2/15.3	1.63E-2/2.56E-2
60X02-A	02407	108	16.3	243	50.4	885	6985	25.2/27.9	3.17E-2/4.20E-2
60X02-B	02407	108	19.6	243	60.4	885	6985	25.2/27.9	3.17E-2/4.20E-2
60X03-A	02407	154	18.6	393	63.3	720	8350	37.2/39.8	4.75E-2/5.29E-2
60X03-B	S748	154	24.0	393	76.8	730	8420	37.2/39.8	4.75E-2/5.29E-2
79X01-A	00607	43.5	4.95	152	20.8	730	2585	9.21/10.7	3.25E-2/4.45E-2
79X01-B	01207	43.5	6.00	152	25.3	730	2585	9.21/10.7	3.25E-2/4.45E-2
79X01-C	02406	43.5	10.0	152	41.7	730	2585	9.21/10.7	3.25E-2/4.45E-2
79X02-A	00607	79.6	5.40	319	26.1	430	2920	16.9/18.4	5.97E-2/7.15E-2
79X02-B	01207	79.6	6.50	319	31.4	430	2920	16.9/18.4	5.97E-2/7.15E-2
79X02-C	02406	79.6	11.0	319	52.4	430	2920	16.9/18.4	5.97E-2/7.15E-2
79X03-A	01207	143	6.76	637	36.7	300	3750	32.1/33.5	0.114/0.125
79X03-B	01207	143	8.00	637	46.3	300	3750	32.1/33.5	0.114/0.125
79X03-C	02406	143	13.2	637	73.7	290	3640	32.1/33.5	0.114/0.125
79X04-A	01207	180	6.60	858	36.7	215	3540	44.0/45.3	0.152/0.164
79X04-B	01207	180	7.80	858	46.3	215	3540	44.0/45.3	0.152/0.164
79X04-C	02406	180	12.8	858	73.7	215	3540	44.0/45.3	0.152/0.164
79X05-A	01207	222	6.30	1075	36.7	165	3330	54.9/56.2	0.191/0.202
79X05-B	01207	222	7.50	1075	46.3	165	3330	54.9/56.2	0.191/0.202
79X05-C	02406	222	12.1	1075	73.7	165	3330	54.9/56.2	0.191/0.202
88X00-A	02407	102	17.0	197	40.0	1000	5460	15.7/21.0	5.26E-2/0.103
88X00-B	02407	102	20.5	197	48.3	1000	5460	15.7/21.0	5.26E-2/0.103
88X00-C	S748	102	34.0	197	80.2	1000	5460	15.7/21.0	5.26E-2/0.103
88X01-A	02407	205	17.1	390	40.0	520	8250	37.6/42.6	9.84E-2/0.146
88X01-B	S748	209	32.1	390	75.4	940	6600	37.6/42.6	9.84E-2/0.146
88X01-C	01207	205	7.50	390	17.8	205	3870	37.6/42.6	9.84E-2/0.146
88X01-D	S748	207	40.2	390	94.7	940	6600	37.6/42.6	9.84E-2/0.146
88X02-A	02407	385	15.1	789	40.0	235	7950	72.6/77.6	0.198/0.247
88X02-B	S748	385	32.1	789	75.4	550	13430	72.6/77.6	0.198/0.247
88X02-C	S748	385	37.9	789	89.0	550	13430	72.6/77.6	0.198/0.247
88X03-A	02407	538	18.2	1200	53.1	225	10450	106/111	0.298/0.315
88X03-B	S748	545	35.5	1200	106	425	16000	106/111	0.298/0.315
88X03-C	S748	545	45.2	1200	134	425	16000	106/111	0.298/0.315
118X00-A	02407	172	21.6	498	67.0	830	7780	18.9/21.2	0.129/0.176
118X00-B	S748	172	27.0	498	84.0	830	7780	18.9/21.2	0.129/0.176
118X00-C	S748	172	40.2	498	135	830	7780	18.9/21.2	0.129/0.176
118X01-A	S748	325	43.7	994	151	785	9000	37.1/39.2	0.267/0.315
118X01-B	S772	325	76.5	994	265	785	9000	37.1/39.2	0.267/0.315
118X02-A	S748	446	47.0	1451	171	710	10350	53.4/56.2	0.396/0.403
118X02-B	S772	446	57.0	1451	206	710	10350	53.4/56.2	0.396/0.403
118X02-C	S772	446	94.5	1255	343	710	10350	53.4/56.2	0.396/0.403
118X03-A	S748	560	44.0	1932	171	535	17000	71.7/73.9	0.542/0.591
118X03-B	S772	560	54.0	1932	206	535	17000	71.7/73.9	0.542/0.591
118X03-C	S772	560	89.5	1661	343	535	17000	71.7/73.9	0.542/0.591
118X04-A	S748	672	42.8	2400	171	420	19850	88.5/90.7	0.648/0.698
118X04-B	S772	672	51.5	2400	206	420	19850	88.5/90.7	0.648/0.698
118X04-C	S772	672	86.0	2068	343	420	19850	88.5/90.7	0.648/0.698

1) Winding temperature = 155°C in continuous standstill and rated power and as per the power curves 2) With winding temperature at 25°C 3) With ambient temperature at 25°C

KBM Frameless Direct Drives

Performance Data

KBM(S)-	Servo amp. type	Continuous standstill torque ¹⁾ [Nm]	Continuous standstill current [A]	Peak standstill moment ²⁾ [Nm]	Peak current [A]	Rated speed [rpm ⁻¹]	Rated power ^{1),3)} [W]	Weight KBM/KBMS	Moment of inertia KBM/KBMS
163X01-A	S748	764	41.5	1966	140	375	17300	90.7/96.2	1.06/1.23
163X01-B	S722	764	47.0	1966	158	350	17400	90.7/96.2	1.06/1.23
163X01-C	S722	764	74.5	1966	253	335	17300	90.7/96.2	1.06/1.23
163X02-A	S748	1084	39.5	2915	140	245	20100	131/136	1.57/1.72
163X02-B	S772	1084	44.0	2915	158	225	19120	131/136	1.57/1.72
163X02-C	S772	1084	73.0	2915	253	215	18065	131/136	1.57/1.72
163X03-A	S748	1329	38.6	3932	140	180	20100	161/166	1.68/1.83
163X03-B	S772	1329	44.0	3932	157	165	18810	161/166	1.68/1.83
163X03-C	S772	1329	70.0	3932	253	160	17420	161/166	1.68/1.83
260X01-A	S748	1932	33.1	6494	147	105	18500	170/177	4.88/5.45
260X01-B	S748	1932	39.0	6494	171	100	17675	170/177	4.88/5.45
260X01-C	S772	1932	58.0	6494	257	90	16100	170/177	4.88/5.45
260X02-A	S748	2706	31.0	9742	147	68	17150	249/257	7.19/7.86
260X02-B	S748	2706	36.5	9742	171	65	16400	249/257	7.19/7.86
260X02-C	S772	2706	54.5	9742	257	58	14715	249/257	7.19/7.86
260X03-A	S748	3445	29.5	12812	147	50	16200	329/336	9.56/10.2
260X03-B	S748	3445	34.5	12812	171	48	15570	329/336	9.56/10.2
260X03-C	S772	3445	52.0	12812	262	42	13710	329/336	9.56/10.2

1) Winding temperature = 155°C in continuous standstill and rated power and as per the power curves 2) With winding temperature at 25°C 3) With ambient temperature at 25°C

Dimensional drawings

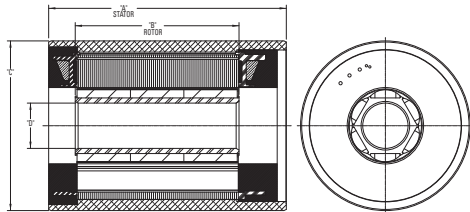


Image 1: KBM 10,14,17,25,35,45

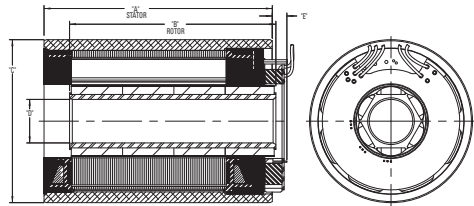


Image 2: KBMS 10,14,17,25,35,45

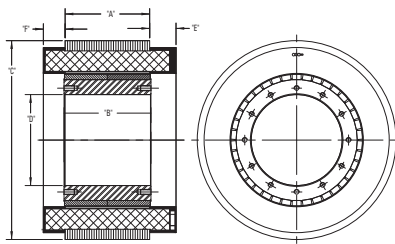


Image 3: KBM 43,57,60,88

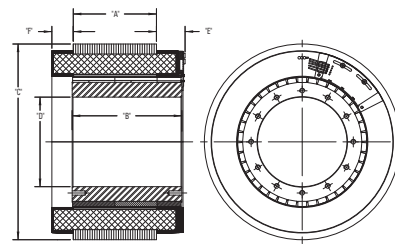


Image 4: KBMS 43,57,60,88

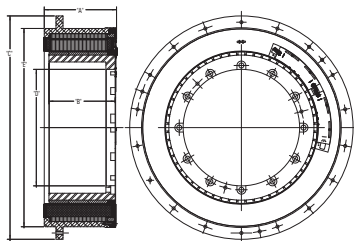


Image 5: KBM 79118,163260

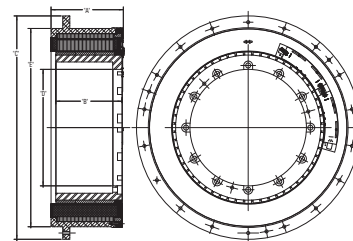


Image 6: KBMS 79118,163260

Dimensions (mm)

KBM(S)-	F	B (KBM)	B (KBMS)	C	D	E (KBM)	E (KBMS)	F	Dimensional drawing
10X01	46.00	20.14	38.17	59.97	16.01	–	5.75	–	Image 1/2
10X02	65.00	39.02	57.05						
10X03	84.00	57.89	75.92						
10X04	103.00	76.77	94.80						
14X01	58.00	32.16	50.19	74.97	20.01	–	5.75	–	Image 1/2
14X02	89.00	63.04	81.08						
14X03	120.00	93.93	111.96						
17X01	57.80	30.15	49.07	84.93	30.01	–	5.75	–	Image 1/2
17X02	86.30	59.03	77.95						
17X03	115.80	87.91	106.83						
17X04	144.80	116.79	135.71						
25X01	62.70	32.16	51.97	109.97	50.01	–	5.75	–	Image 1/2
25X02	93.70	63.05	82.86						
25X03	124.70	93.93	113.74						
25X04	155.70	124.82	144.63						
35X01	83.74	51.00	71.83	139.97	65.01	–	5.75	–	Image 1/2
35X02	108.74	75.87	96.70						
35X03	133.74	100.74	121.56						
35X04	158.74	125.60	146.43						
43X01	11.43	18.54	30.35	159.78	76.28	20.32	12.32	12.32	Image 3/4
43X02	22.86	29.97	41.78						
43X03	45.72	52.83	64.64						
43X04	80.26	87.38	99.19						
43X05	108.97	116.08	127.89						
45X01	107.06	69.04	92.41	189.96	85.02	–	5.75	–	Image 1/2
45X02	141.06		126.29						
45X03	175.05		160.17						
57X01	20.32	25.40	38.23	202.90	104.17	12.32	20.32	12.32	Image 3/4
57X02	40.64	45.72	58.54						
57X03	81.79	88.36	99.44						
57X04	123.82	129.16	141.98						
57X05	166.37	171.70	184.53						
60X00	26.62	29.39	57.53	229.85	105.05	30.48	33.65	25.15	Image 3/4
60X01	48.11	50.88	78.99						
60X02	97.71	100.48	128.78						
60X03	147.32	150.09	178.31						
79X01	31.75	38.10	52.07	259.63	152.43	13.34	21.20	13.34	Image 5/6
79X02	63.50	69.85	83.82						
79X03	127.00	133.35	147.07						
79X04	170.94	177.29	191.26						
79X05	214.89	221.49	235.46						
88X00	33.66	36.37	71.37	331.46	155.01	37.59	40.64	27.43	Image 3/4
88X01	67.56	70.36	105.41						
88X02	136.65	139.44	174.63						
88X03	205.74	208.53	243.84						
118X00	50.80	50.71	72.39	361.11	225.04	21.59	26.03	22.23	Image 5/6
118X01	101.60	104.14	123.83						
118X02	152.40	155.58	175.26						
118X03	203.20	207.26	226.70						
118X04	254.00	258.69	278.13	605.00	315.50	537.08	537.08	–	Image 5/6
163X01	142.54	106.93	126.24						
163X02	193.34	160.02	179.32						
163X03	244.14	213.11	232.41	850.00	557.85	781.81	781.81	–	Image 5/6
260X01	172.62	132.08	156.21						
260X02	237.39	196.85	220.98						
260X03	302.16	261.62	285.75						

– Change Motion task profile and clear fault with DRV.CLRFAULTS.

Model Nomenclature

KBM Frameless Direct Drives

