

## servoLINE

<b>Features</b>	<ul style="list-style-type: none"> <li>• Compact permanent magnet synchronous servo motors</li> <li>• Sinusoidally induced voltage for excellent true running characteristics</li> <li>• Use of high-energy NdFeB magnets</li> <li>• Protection class IP 64 - option IP 65</li> <li>• Long service life of the motors due to insulation materials in class 180 (H) and utilisation in class 155 (F)</li> <li>• Plain shaft end - option feather key</li> <li>• Modular system allows quick implementation of mechanical adaptations</li> <li>• Various options available such as integrated holding brake, gear unit, special shaft, different temperature sensors, special flange, winding variants, different measuring systems, electronic type label.</li> </ul>		
	<b>classicLINE</b>	<b>dynamicLINE</b>	<b>powerLINE</b>
<b>Specifics</b>	<ul style="list-style-type: none"> <li>• Magnet geometry optimised for high pulse torques</li> <li>• 6-pole</li> <li>• UL/CSA certified</li> </ul>	<ul style="list-style-type: none"> <li>• Encapsulated stator for optimum heat dissipation of the winding to the housing and as mechanical protection of the winding wires against vibrations</li> <li>• (6-) 8-pole</li> <li>• UL/CSA certified</li> </ul>	<ul style="list-style-type: none"> <li>• Concentrated winding with a perfectly matching magnet design for high power density</li> <li>• Option: single-cable interface with DSL interface</li> <li>• moulded stator</li> <li>• (6-) 10-pole</li> <li>• UL certification in preparation</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• 5-fold overload capability</li> <li>• Option: operation with forced air-cooling fan for increased performance</li> </ul>	<ul style="list-style-type: none"> <li>• Low moment of inertia</li> <li>• Plain housing surface for easy cleaning</li> </ul>	<ul style="list-style-type: none"> <li>• Extremely compact design</li> <li>• Option: operation with forced air-cooling fan for increased performance</li> </ul>
<b>Areas of application</b>	<ul style="list-style-type: none"> <li>• Metal processing machines</li> <li>• General mechanical engineering</li> <li>• Handling systems</li> <li>• Servo presses</li> </ul>	<ul style="list-style-type: none"> <li>• Woodworking machines</li> <li>• Textile machines</li> <li>• Special machine construction</li> <li>• Food processing</li> <li>• Clean room applications</li> </ul>	<ul style="list-style-type: none"> <li>• Plastics processing</li> <li>• Robotics</li> <li>• Special machine construction</li> <li>• Autonomous transport systems</li> <li>• Energy-efficient drives</li> </ul>

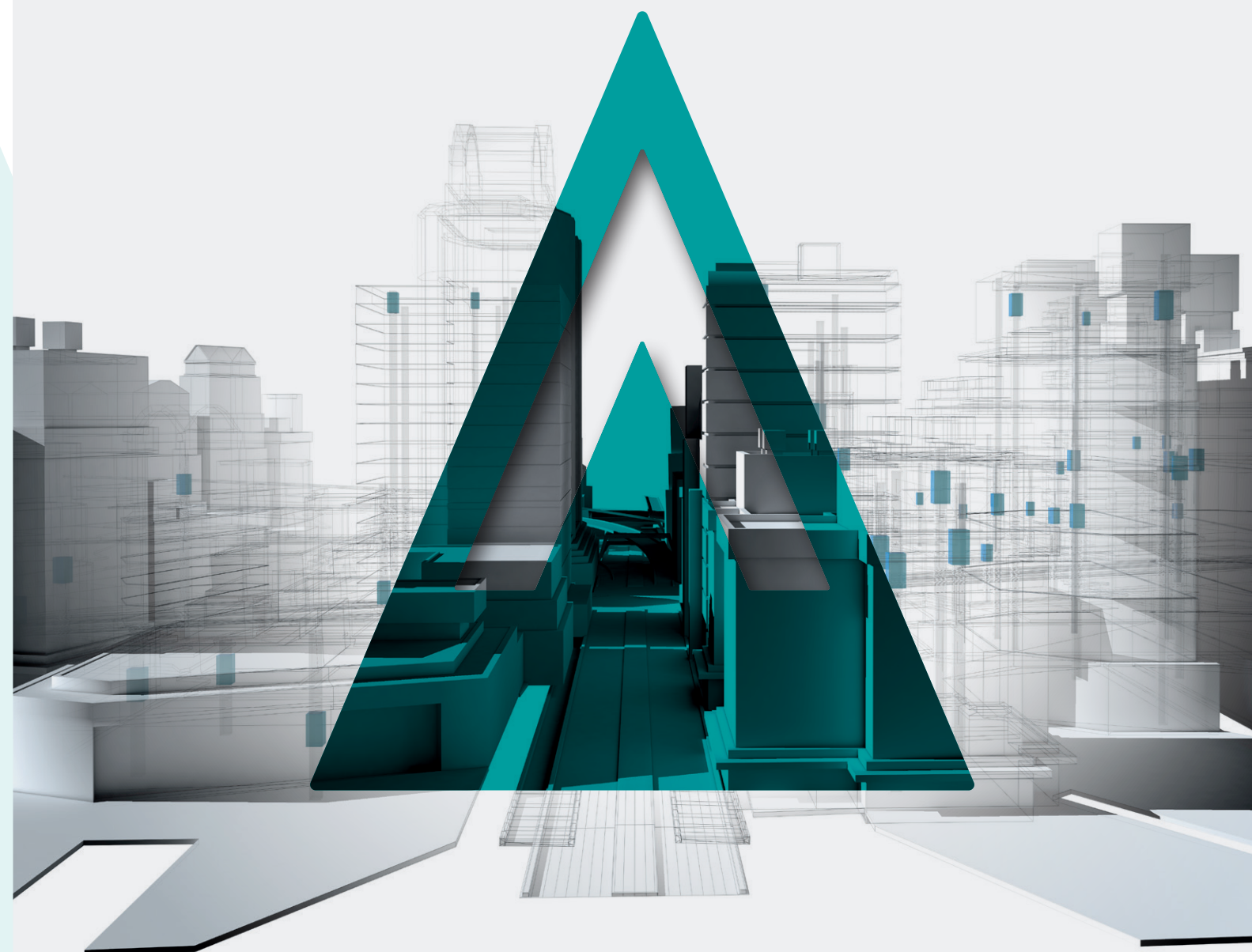
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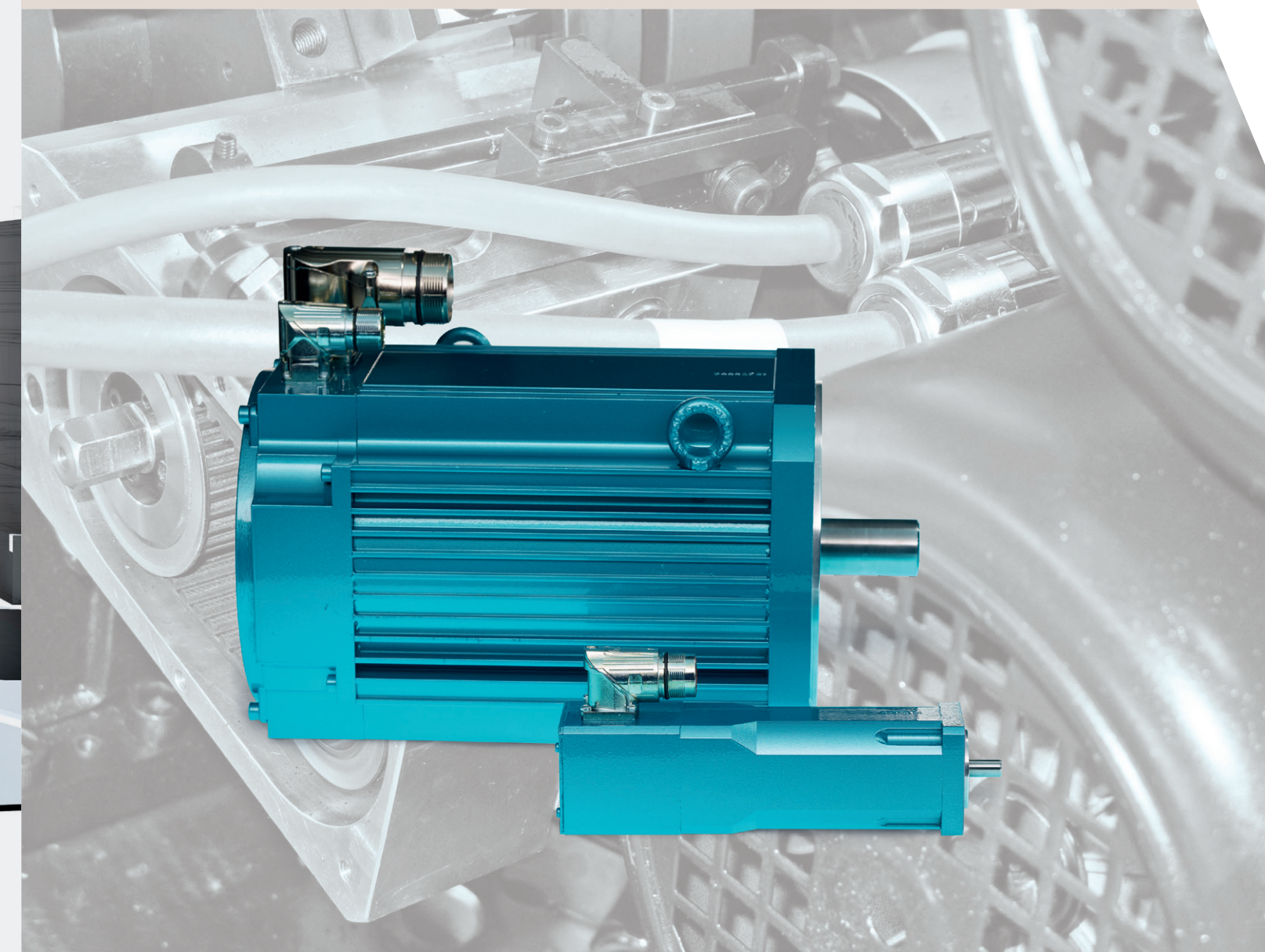
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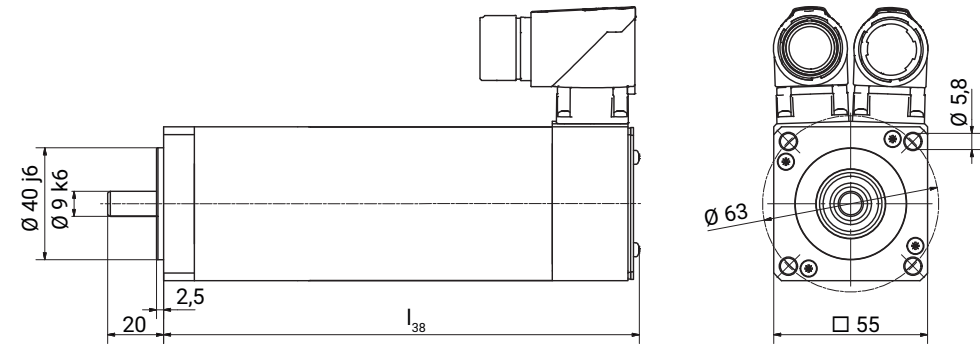
servoLINE

SYNCHRONOUS SERVO MOTORS



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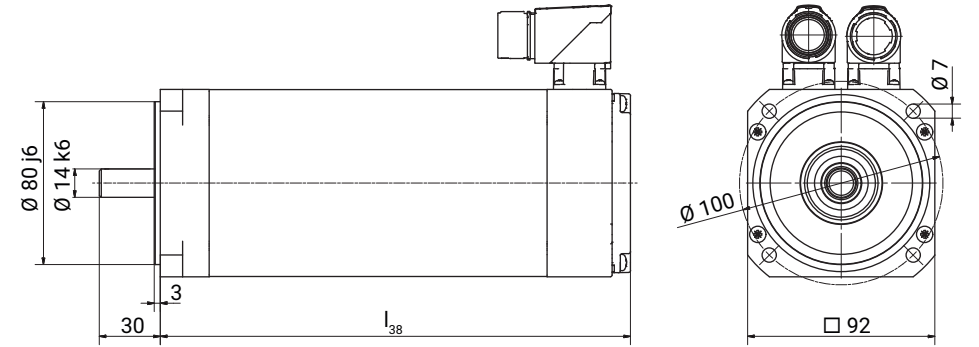


servoLINE

## □ 55 mm

		[Nm]	classicLINE				dynamicLINE				powerLINE		
			GM 4-				DUM 6-				GM 8-		
			05.1	05.2	05.3	05.4	A1	A2	A3	A4	05.1	05.2	05.3
Stall torque	$M_{d0}$	[Nm]	0,34	0,50	0,66	1,0	0,47	0,66	0,87	1,14	0,47	0,87	1,20
Current at stall torque	$I_{d0}$	[A]	0,85	1,0	1,2	1,6	0,94	1,24	1,43	1,55	1,0	1,5	1,8
Rated speed	$n_N$	[rpm]	6.000				6.000				6.000		
Rated torque	$M_{dN}$	[Nm]	0,32	0,48	0,6	0,8	0,43	0,62	0,80	1,05	0,44	0,80	1,05
Rated current	$I_{dN}$	[A]	0,8	0,9	1,1	1,4	0,93	1,16	1,30	1,45	0,9	1,3	1,5
Rated power	$P_{dN}$	[kW]	0,20	0,30	0,38	0,50	0,27	0,39	0,50	0,66	0,28	0,50	0,66
Number of poles	2p		6				6				6		
Overall length <sup>*)</sup>	$l_{38}$	[mm]	121	133	145	170	121	133	145	170	121	145	170
Inertia	$J_m$	[kgcm <sup>2</sup> ]	0,14	0,21	0,27	0,40	0,13	0,18	0,23	0,34	0,14	0,27	0,40

<sup>\*)</sup> with resolver, without brake

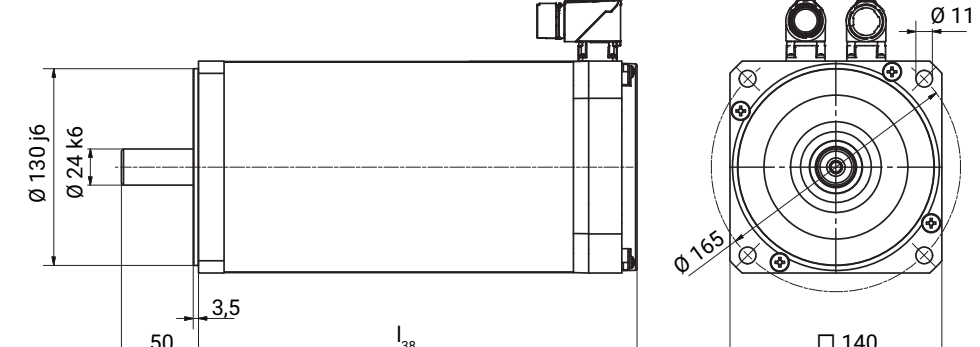


servoLINE

## □ 90 mm

		[Nm]	classicLINE			powerLINE		
			RM 4-			RM 8-		
			09.2	09.3	09.4	09.1	09.2	09.3
Stall torque	$M_{d0}$	[Nm]	2,7	4,5	6,0	3,8	5,6	7,3
Current at stall torque	$I_{d0}$	[A]	3,7	5,6	7,8	6,9	9,2	11,8
Rated speed	$n_N$	[rpm]	6.000			6.000		
Rated torque	$M_{dN}$	[Nm]	2,0	2,8	3,0	2,7	3,4	4,0
Rated current	$I_{dN}$	[A]	3,0	3,8	4,5	4,9	5,6	6,5
Rated power	$P_{dN}$	[kW]	1,26	1,76	1,88	1,7	2,1	2,5
Number of poles	2p		6			10		
Overall length <sup>*)</sup>	$l_{38}$	[mm]	183	217	251	180	204	228
Inertia	$J_m$	[kgcm <sup>2</sup> ]	3,9	5,2	6,6	2,4	3,3	4,3

<sup>\*)</sup> with resolver, without brake

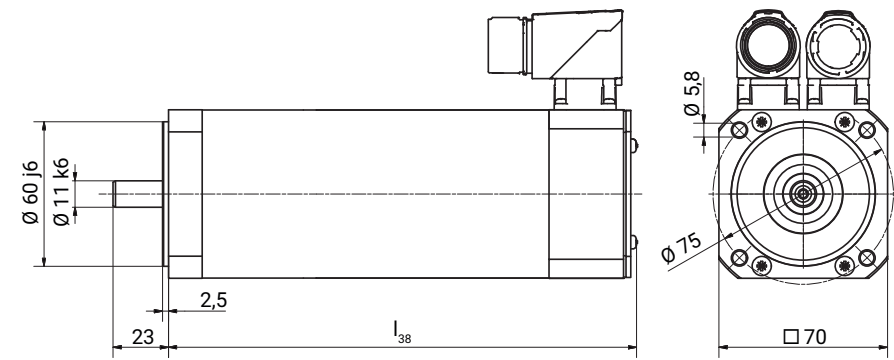


servoLINE

## □ 140 mm

		[Nm]	classicLINE			dynamicLINE				powerLINE		
			RM 4-			DUM 6-				RM 8-		
			14.2	14.3	14.4	D1	D2	D3	D4	14.1	14.2	14.3
Stall torque	$M_{d0}$	[Nm]	14,0	19,0	27,0	8,2	11,6	15,3	18,4	12,4	17,7	24,2
Current at stall torque	$I_{d0}$	[A]	13,1	14,5	18,0	6,0	8,9	11,2	14,0	12,2	16,3	22,6
Rated speed	$n_N$	[rpm]	4.000		3.000	3.000				3.000		
Rated torque	$M_{dN}$	[Nm]	7,6	8,7	15,5	6,8	9,5	11,9	13,7	8,7	11,2	14,2
Rated current	$I_{dN}$	[A]	7,5	7,0	10,9	4,6	6,7	8,0	9,6	8,6	10,3	13,1
Rated power	$P_{dN}$	[kW]	3,2	3,6	4,9	2,1	3,0	3,8	4,3	2,7	3,5	4,5
Number of poles	2p		6			8				10		
Overall length <sup>*)</sup>	$l_{38}$	[mm]	255	285	330	203	233	263	293	228	259	290
Inertia	$J_m$	[kgcm <sup>2</sup> ]	19,5	26,7	36,0	7,9	11,2	14,4	19,5	16,4	23,0	29,6

<sup>\*)</sup> with resolver, without brake

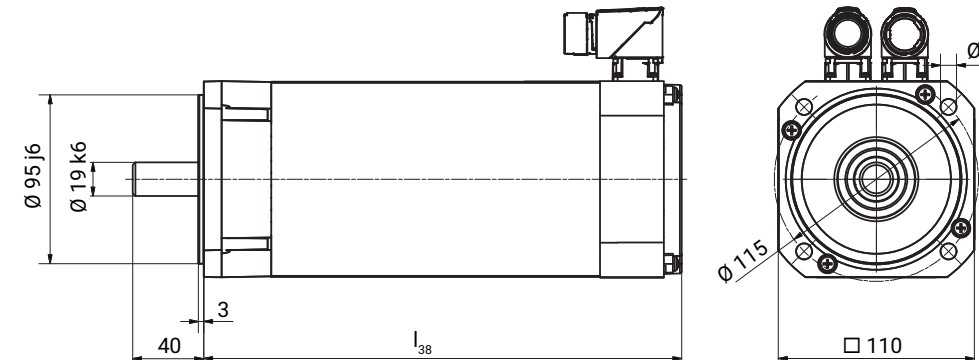


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## □ 70 mm

		[Nm]	classicLINE			powerLINE		
			GM 4-			GM 8-		
			07.1	07.2	07.3	07.1	07.2	07.3
Stall torque	$M_{d0}$	[Nm]	0,65	1,5	2,3	0,8	1,6	2,4
Current at stall torque	$I_{d0}$	[A]	1,3	2,4	3,5	1,4	2,4	3,5
Rated speed	$n_N$	[rpm]	6.000			6.000		
Rated torque	$M_{dN}$	[Nm]	0,5	1,0	1,5	0,65	1,2	1,8
Rated current	$I_{dN}$	[A]	1,2	2,1	3,0	1,2	1,9	2,7
Rated power	$P_{dN}$	[kW]	0,31	0,63	0,94	0,41	0,75	1,13
Number of poles	2p		6			8		
Overall length <sup>*)</sup>	$l_{38}$	[mm]	135	159	195	143	169	195
Inertia	$J_m$	[kgcm <sup>2</sup> ]	0,22	0,36	0,57	0,25	0,41	0,58

<sup>\*)</sup> with resolver, without brake

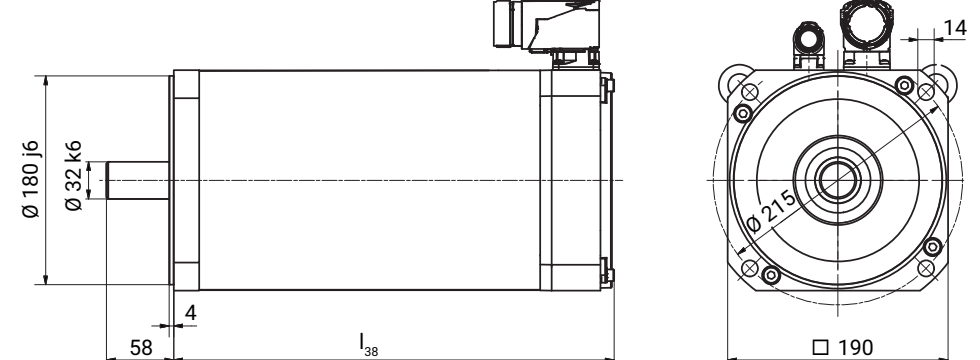


servoLINE

## □ 110 mm

		[Nm]	classicLINE			dynamicLINE				powerLINE		
			RM 4-			DUM 6-				RM 8-		
			11.2	11.3	11.4	C1	C2	C3	C4	11.1	11.2	11.3
Stall torque	$M_{d0}$	[Nm]	7,0	10,0	12,0	3,9	5,7	7,1	8,5	5,2	8,0	11,1
Current at stall torque	$I_{d0}$	[A]	9,9	13,6	11,6	3,9	6,1	8,8	10,7	6,6	8,9	12,3
Rated speed	$n_N$	[rpm]	6.000		4.000	4.000				4.000		
Rated torque	$M_{dN}$	[Nm]	3,8	5,0	8,6	3,1	4,2	5,7	6,8	3,7	5,1	6,5
Rated current	$I_{dN}$	[A]	5,9	7,6	8,6	3,1	4,5	5,5	6,6	4,7	5,7	7,2
Rated power	$P_{dN}$	[kW]	2,4	3,1	3,6	1,3	1,8	2,4	2,8	1,6	2,1	2,7
Number of poles	2p		6			8				10		
Overall length <sup>*)</sup>	$l_{38}$	[mm]	238	269	298	178	206	234	262	207	238	269
Inertia	$J_m$	[kgcm <sup>2</sup> ]	7,4	9,8	12,7	2,7	3,7	4,7	6,0	4,5	6,6	8,7

<sup>\*)</sup> with resolver, without brake



servoLINE

## □ 190 mm

		[Nm]	classicLINE			dynamicLINE			powerLINE		
			RM 4-			DUM 6-			RM 8-		
			19.1	19.2	19.3	E1	E2	E3	19.1	19.2	19.3
Stall torque	$M_{d0}$	[Nm]	25	50	70	23,5	35	48	26	53	74
Current at stall torque	$I_{d0}$	[A]	22,2	32,2	46,2	16,9	24,8	38,2	23,0	34,1	45,3
Rated speed	$n_N$	[rpm]	4.000	3.000		3.000			4.000	3.000	
Rated torque	$M_{dN}$	[Nm]	16	31	33	14	19	27	17	32	40
Rated current	$I_{dN}$	[A]	14,8	20,6	22,9	9,4	12,4	19,6	15,2	20,6	24,5
Rated power	$P_{dN}$	[kW]	6,7	9,7	10,4	4,4	6,0	8,4	7,1	10,1	12,6
Number of poles	2p		6			8			6		
Overall length <sup>*)</sup>	$l_{38}$	[mm]	348	428	508	266	294	322	302	382	462
Inertia	$J_m$	[kgcm <sup>2</sup> ]	84	147	210	57	79	102	79	144	209

<sup>\*)</sup> with resolver, without brake