

CM3C Synchronous Servomotor

Medium Inertia Line for High Performance

Full integration into MOVI-C® automation platform and compatibility with SEW gear units



General benefits	<ul style="list-style-type: none"> • Special rotor design for increased inertia tailored to high external loads • Newest motor technology for highest compactness and power density • Exceeding efficiency class IE5 significantly • Hygiene-friendly design IP65 (optionally IP66) • Single cable design available • Digital Motor Integration (MOVILINK® DDI) provides motor / encoder / temperature / startup data for automatic startup and the creation of maintenance forecasts • Multi-stage surface protection concept • Functional safety: safety brake and safety encoder (in preparation) • UL, CSA, EAC, ATEX certified (configuration dependent) 																									
Typical applications	<ul style="list-style-type: none"> • Heavy duty gantries • Cartesian robots • Palletizers • Forming machines • Loading units • Machine tools • Hoist applications • Material handling technology such as Storage Retrieval Systems 																									
General product info	<table border="1"> <thead> <tr> <th></th> <th>Size 63*</th> <th>Size 71*</th> <th>Size 80*</th> <th>Size 100*</th> </tr> </thead> <tbody> <tr> <td>M₀ Standstill torque [Nm]</td> <td>2.7 – 6.4</td> <td>6.5 - 14</td> <td>10.5 – 22.8</td> <td>19 - 40</td> </tr> <tr> <td>M_{pk} Dyn. Limit Torque [Nm]</td> <td>8.1 – 19.2</td> <td>19.5 - 42</td> <td>31.5 – 68.4</td> <td>57 – 120</td> </tr> <tr> <td>Flange Square [mm]</td> <td>88</td> <td>116</td> <td>138</td> <td>163</td> </tr> <tr> <td>Speed [min⁻¹]</td> <td>3000 / 4500 / 6000</td> <td>2000 / 3000 / 4500 / 6000</td> <td>2000 / 3000 / 4500 / 6000</td> <td>2000 / 3000 / 4500</td> </tr> </tbody> </table> <p>* each size available in 3 lengths – S, M and L</p>		Size 63*	Size 71*	Size 80*	Size 100*	M₀ Standstill torque [Nm]	2.7 – 6.4	6.5 - 14	10.5 – 22.8	19 - 40	M_{pk} Dyn. Limit Torque [Nm]	8.1 – 19.2	19.5 - 42	31.5 – 68.4	57 – 120	Flange Square [mm]	88	116	138	163	Speed [min⁻¹]	3000 / 4500 / 6000	2000 / 3000 / 4500 / 6000	2000 / 3000 / 4500 / 6000	2000 / 3000 / 4500
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Speed [min⁻¹]	3000 / 4500 / 6000	2000 / 3000 / 4500 / 6000	2000 / 3000 / 4500 / 6000	2000 / 3000 / 4500																						
System Voltage	400 V																									
Shaft Design	-N without key / -K with key / -P pinion shaft end / -E push-in pinion																									
Options																										
Brake system	/BK Permanent magnet holding brake /BZ /BZD Spring-loaded holding brake with increased working capacity /HR Manual brake release, re-engaging																									
Temperature sensor	/PK PT1000 temperature sensor																									
Feedback systems	<p><i>SEW-EURODRIVE encoder systems:</i></p> /RH1M Resolver, single-tum, medium class /AK0H Multi-tum encoder, HIPERFACE®, high class /EZ2Z Single-tum encoder, MOVILINK® DDI, medium class /AZ2Z Multi-tum encoder, MOVILINK® DDI, medium class /EZ4Z Single-tum encoder, MOVILINK® DDI, high class (in preparation) /AZ4Z Multi-tum encoder, MOVILINK® DDI, high class (in preparation) <p><i>Non-SEW-EURODRIVE Encoder systems:</i></p> /AH0E Absolute Encoder, EnDat2.2 interface (multi-tum) /AH1E Absolute Encoder, EnDat2.2 interface (multi-tum) /EH1E Absolute Encoder, EnDat2.2 interface (single-tum) /AK0J Absolute Encoder, HIPERAFCE® DSL interface (multi-tum) /EK0J Absolute Encoder, HIPERAFCE® DSL interface (single-tum) /AH1Q Absolute Encoder, DRIVE-CLiQ interface (single-tum)																									

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<p>Connection variants</p>	<p><i>With SEW-EURODRIVE encoder systems:</i></p> <p>/SM1 M23 motor plug connector, socket on motor side only, pluggable motor and encoder cables</p> <p>/SMB M40 motor plug con., socket on motor side only, pluggable motor and encoder cables</p> <p>/SB1 M23 brakemotor plug con., socket on motor side only, pluggable motor and encoder cables</p> <p>/SBB M40 brakemotor plug con., socket on motor side only, pluggable motor and encoder cables</p> <p>/SD1 M23 hybrid plug con. motor/brakemotor (power and data) for MOVILINK DDI, socket on motor side</p> <p>/SDB M40 hybrid plug con. motor/brakemotor (power and data) for MOVILINK DDI, socket on motor side</p> <p>/KK Terminal box for CM3C63-100</p> <p><i>With Non-SEW-EURODRIVE encoder systems:</i></p> <p>/SE1 M23 hybrid motor plug con. for motor, brake (BK., BZ.D), AH0E/AH1E/EH1E, only motor-side female con.</p> <p>/SE4 M23 hybrid motor plug con. for motor, brake (BZ.), AH0E/AH1E/EH1E, only motor-side female con.</p> <p>/SJ1 M23 motor and brake plug con. for AK0J/EK0J encoder, only motor-side female con.</p> <p>/SJB M40 motor and brake plug con. for AK0J/EK0J encoder, only motor-side female con.</p> <p>/SQ1 M23 motor and brake plug con. for AH1Q encoder, only motor-side female con.</p> <p>/SQB M40 motor and brake plug con. for AH1Q encoder, only motor-side female con.</p>
<p>Ventilation</p>	<p>/VR Forced cooling fan (in preparation)</p>
<p>Operating conditions</p>	<p>-4 deg F to +104 deg F / -20 deg C to +40 deg C (up to 3,280ft / 1,000m altitude) Derating for temperature range up to 140 deg F / +60 deg C and up to 13,123ft / 4,000m</p>