



## AM3031 | Servomotor 1.15 Nm (standstill torque)

Data for indicated nominal voltage	AM3031-wCyz-0000	AM3031-wEyz-0000
Nominal voltage	400 V AC	230 V AC
Standstill torque	1.15 Nm	1.20 Nm
Rated torque	1.00 Nm	0.95 Nm
Rated speed	5000 min <sup>-1</sup>	6000 min <sup>-1</sup>
Rated power	0.52 kW	0.60 kW
Peak torque	4.49 Nm	4.6 Nm
Standstill current	1.37 A	2.99 A
Peak current	6.9 A	15.0 A
Torque constant	0.85 Nm/A	0.41 Nm/A
Voltage constant	54.5 mV/min <sup>-1</sup>	26.1 mV/min <sup>-1</sup>
Number of poles	8	
Rotor moment of inertia	0.330 kg cm <sup>2</sup>	
Weight	1.55 kg	
Holding torque brake (M <sub>br</sub> )	2.5 Nm	
Power consumption (brake) at 24 V DC (P <sub>br</sub> )	10 W	
Rotor moment of inertia incl. brake (J)	0.341 kg cm <sup>2</sup>	
Weight incl. brake (m)	1.90 kg	

Order reference	
AM30uv-wxyz-000a	
u	flange code
v	motor length
w = 0	smooth shaft (standard)
w = 1	shaft with groove and feather key according to DIN 6885
w = 2	shaft with IP 65 sealing ring and smooth shaft (AM301x to AM303x)
w = 3	shaft with IP 65 sealing ring and shaft with groove and feather key (AM301x to AM303x)
x	winding code A...T
y = 0	resolver, 2-pole
y = 1	single-turn absolute encoder, EnDat 2.1, absolute position within one revolution, electronic identification plate, AM302x...AM304x: 512 sine periods per revolution, AM305x...AM308x: 2,048 sine periods per revolution
y = 2	multi-turn absolute encoder, EnDat 2.1, absolute position within 4,096 revolutions, electronic identification plate, AM302x...AM304x: 512 sine periods per revolution, AM305x...AM308x: 2,048 sine periods per revolution
y = 3	single-turn absolute encoder, BiSS, absolute position within one revolution, electronic identification plate, AM302x...AM308x: 2,048 sine periods per revolution
y = 4	multi-turn absolute encoder, BiSS, absolute position within 4,096 revolutions, electronic identification plate, AM302x...AM308x: 2,048 sine periods per revolution
z = 0	without holding brake
z = 1	with holding brake for AM302x...AM308x
a = 0	rotatable angular connectors for motor and feedback cable (only for AM302x up to AM307x)
a = 3	vertical connectors for motor and feedback cables (only for AM302x up to AM307x)
	With the exception of the shaft seal, the options cannot be installed in the field. Options such as shaft seal, holding brake, absolute encoder can lead to a reduction of the nominal rating.