AM8032-wEyz | Servomotor 2.37 Nm (M_0), F3 (72 mm)

Product status: regular delivery

The AM8032 standard servomotor is suitable for drive solutions with highest demands on dynamics and performance in the 100...480 V AC voltage range. The standstill torque of the motor depends on the winding and is 2.38 Nm or 2.37 Nm. It is available with the OCT feedback system (absolute encoder). The standard servomotor with flange code F3 (72 mm) and motor length 2 has a shaft diameter b = 14 k6 and a free shaft end of d = 30 mm.

Product information

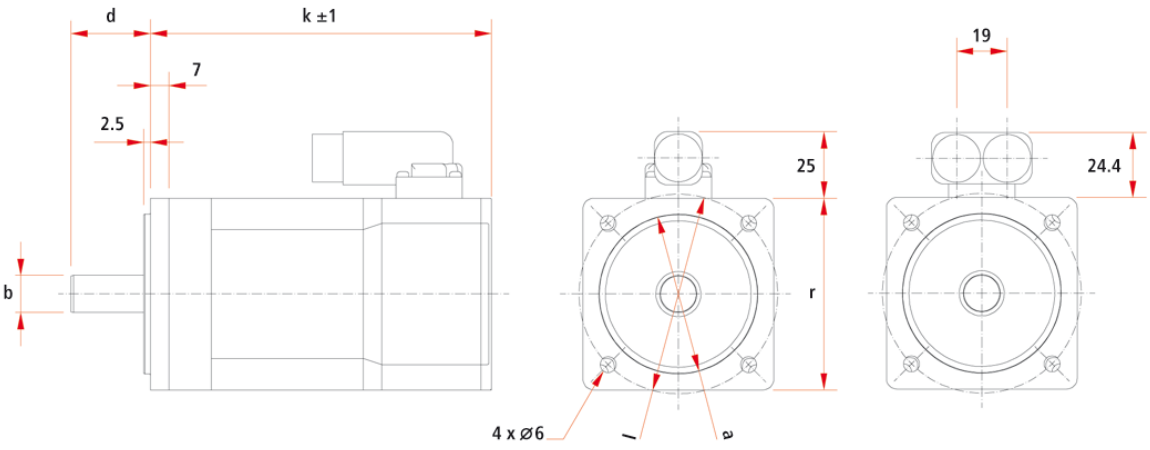
Technical data

Data for 400 V AC	AM8032-wEyz
Motor type	permanent magnet-excited three-phase synchronous motor
Nominal voltage	100...480 V AC
Standstill torque	2.37 Nm
Rated torque	2.20 Nm
Peak torque	11.66 Nm
Rated speed	6000 min^{-1}
Rated power	1.38 kW
Standstill current	2.95 A
Peak current	17.2 A

Torque constant	0.80 Nm/A
Rotor moment of inertia	0.847 kgcm²
Motor feedback	resolver, single-turn absolute encoder OCT, 18 bit, single-turn or multi-turn absolute encoder, electronic nameplate OCT, 24 bit, SIL 2-capable, single-turn or multi-turn absolute encoder, electronic nameplate OCT, 24 bit, SIL 2-capable, single-turn or multi-turn absolute encoder, electronic nameplate, B/SSD OCT, EnDat® 3, 19 bit, SIL 3-capable, single-turn or multi-turn absolute encoder, electronic nameplate
Cooling	convection
Connection technology	itec® plug
Ambient temperature (operation)	5...40°C
Approvals/markings	CE, cURus

All electric quantities are RMS values.

Housing data	AM80xx
Protection rating	IP54, IP65 (shaft seal)
Design form	flange-mounted according to IM B5, IM V1, IM V3
Material	aluminum
Coating/surface	acrylic powder-coated, dark gray, similar to RAL7016



Dimensions	AM8032-wEyz
a	60 j6
b	14 k6
d	30 mm
l	75 mm

r	72 mm
k (without brake)	154 mm
k (with brake)	194 mm

Ordering information

Order reference AM8032-wEyz	
w = 0	smooth shaft
w = 1	shaft with groove and feather key according to DIN 6885
w = 2	shaft with IP65 sealing ring, smooth shaft
w = 3	shaft with IP65 sealing ring, shaft with groove and feather key
w = 4	shaft with IP65 sealing ring, smooth shaft and sealing air connection
w = 5	shaft with IP65 sealing ring, shaft with groove and feather key and sealing air connection
y = 0	2-cable standard: feedback resolver
y = 1	One Cable Technology for power and feedback: feedback transmission via motor cable, no feedback cable necessary, electronic nameplate, single-turn, absolute position within one revolution, 18 bit resolution
y = 2	One Cable Technology for power and feedback: feedback transmission via motor cable, no feedback cable necessary, electronic nameplate, multi-turn, absolute position within 4096 revolutions, 18 bit resolution
y = G	One Cable Technology for power and feedback: feedback transmission via motor cable, no feedback cable necessary, electronic nameplate, single-turn, absolute position within one revolution, resolution 24 bit, SIL 2-capable (mandatory for TwinSAFE Safe Motion functions at AX8xxx-x2xx)
y = H	One Cable Technology for power and feedback: feedback transmission via motor cable, no feedback cable necessary, electronic nameplate, multi-turn, absolute position within 4096 revolutions, resolution 24 bit, SIL 2-capable (mandatory for TwinSAFE Safe Motion functions at AX8xxx-x2xx)
y = I	EnDat® 3; One Cable Technology for power and feedback: feedback transmission via motor cable, no feedback cable necessary, electronic nameplate, single-turn, absolute position within one revolution, resolution 19 bit, SIL 3-capable (mandatory for TwinSAFE Safe Motion functions at AX8xxx-x2xx), only at AX8000 from firmware 1.06 (not for AM801x)
y = J	EnDat® 3; One Cable Technology for power and feedback: feedback transmission via motor cable, no feedback cable necessary, electronic nameplate, multi-turn, absolute position within 4096 revolutions, resolution 19 bit, SIL 3-capable (mandatory for TwinSAFE Safe Motion functions at AX8xxx-x2xx), only at AX8000 from firmware 1.06 (not for AM801x)
y = L	One Cable Technology for power and feedback: feedback transmission via motor cable, no feedback cable necessary, electronic nameplate, multi-turn, absolute position within 4096 revolutions, resolution 24 bit, SIL 2-capable (mandatory for TwinSAFE Safe Motion functions at AX8xxx-x2xx), Beckhoff Smart System Diagnosis (B/SSD)
y = N	without feedback (sensorless)

z = 0	without holding brake
z = 1	with backlash-free permanent magnet holding brake
	The options cannot be installed in the field.