AM3033-wEyz-0000 | Servomotor 2.79 Nm (M_0), F3 (72 mm) (service phase)

Product status: regular delivery (not recommended for new projects) | recommended alternative: AM8033

The AM3033 low-inertia servomotor is suitable for drive solutions with highest demands on dynamics and performance in the 400 V AC voltage range. The standstill torque of the motor depends on the winding and is in the range of 2,71...2.79 Nm. The low-inertia servomotor with flange code F3 (72 mm) and motor length 3 has a shaft diameter b = 14 k6 and a free shaft end of d = 30 mm.

Product information

Technical data

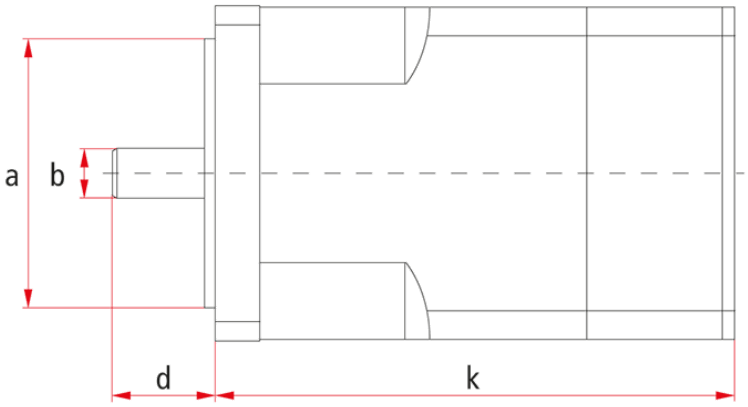
Data for 400 V AC	AM3033-wEyz-0000
Motor type	synchronous servomotors
Nominal voltage	480 V AC
Standstill torque	2.79 Nm
Rated torque	2.34 Nm
Peak torque	11.76
Rated speed	4500 min^{-1}
Rated power	1.10 kW
Standstill current	2.58 A
Peak current	12.9 A

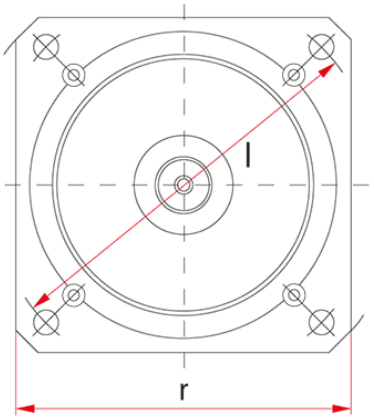
Torque constant	1.10 Nm/A
Rotor moment of inertia	0.850 kgcm²
Motor feedback	resolver, BiSS B, EnDat 2.1
Cooling	convection
Connection method	M23
Ambient temperature (operation)	+5...+40 °C
Approvals/markings	CE, cURus, EAC

All electric quantities are RMS values.

Options such as shaft seal, holding brake, absolute encoder can lead to a reduction of the nominal rating.

Housing data	AM30xx
Protection rating	IP54
Design form	flange-mounted according to IM B5, IM V1, IM V3
Material	aluminum die-cast
Coating/surface	coated





Dimensions	AM3033-wEyz-0000
a	60 j6
b	14 k6
d	30 mm
l	75 mm
r	70 mm

k (encoder) (without brake)	171.8 mm
k (encoder) (with brake)	203.3 mm
k (resolver) (without brake)	171.8 mm
k (resolver) (with brake)	203.3 mm

Ordering information

Order reference AM3033-wEyz-0000	
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 IP65 sealing ring and smooth shaft (AM301x to AM303x)
w = 2	shaft with IP65 sealing ring and smooth shaft (AM304x to AM308x)
w = 3	shaft with IP65 sealing ring and shaft with groove and feather key (AM301x to AM303x)
w = 3	shaft with IP65 sealing ring and shaft with groove and feather key (AM304x to AM308x)
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: 2048 sine periods per revolution
y = 2	multi-turn absolute encoder, EnDat 2.1, absolute position within 4096 revolutions, electronic identification plate, AM302x...AM304x: 512 sine periods per revolution, AM305x...AM308x: 2048 sine periods per revolution
y = 3	single-turn absolute encoder, BiSS, absolute position within one revolution, electronic identification plate, AM302x...AM308x: 2048 sine periods per revolution
y = 4	multi-turn absolute encoder, BiSS, absolute position within 4096 revolutions, electronic identification plate, AM302x...AM308x: 2048 sine periods per revolution
y = A	single-turn absolute encoder, Hiperface, absolute position within one revolution, electronic identification plate, AM301x: 16 sine periods per revolution
y = B	multi-turn absolute encoder, Hiperface, absolute position within one revolution, electronic identification plate, AM301x: 4,096 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 = 1	supply cable 0.5 m with non-detachable plugs (only for AM301x/AM302x), only for resolver (y = 0)
a = 3	vertical connectors for motor and feedback cables (only for AM302x up to AM307x)

a = 5	yTec plug (only for AM301x)
a = 6	motor connection via terminal box (only for AM308x)
	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.