

# AM3073-wMyz-0000 | Servomotor 42.0 Nm (M<sub>0</sub>), F7 (194 mm)



**i Product status:** Regular delivery (not recommended for new projects) | recommended alternative: AM8073

The AM3073 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 41,6...42.0 Nm. The low-inertia servomotor with flange code F7 (197 mm) and motor length 3 has a shaft diameter  $b = 38 \text{ k6}$  and a free shaft end of  $d = 80 \text{ mm}$ .

## Product information

### Technical data

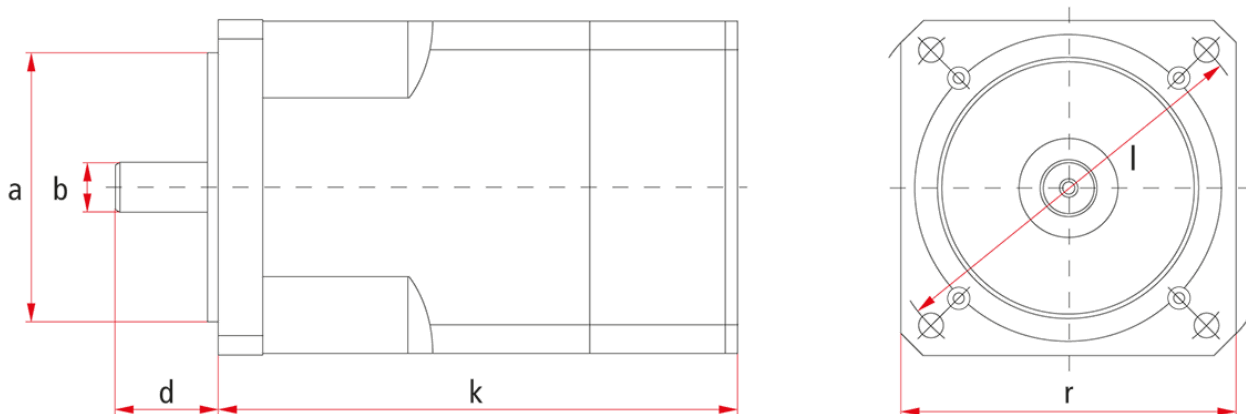
Data for 400 V AC	AM3073-wMyz-0000
Motor type	synchronous servomotors
Nominal voltage	480 V AC
Standstill torque	42.0 Nm
Rated torque	33.8 Nm
Peak torque	169.8 Nm
Rated speed	1500 min <sup>-1</sup>
Rated power	5.31 kW
Standstill current	13.60 A
Peak current	68.0 A
Torque constant	3.10 Nm/A

Rotor moment of inertia	92.0 kgcm <sup>2</sup>
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.

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



Dimensions	AM3073-wMyz-0000
a	180 j6
b	38 k6
d	80 mm
l	215 mm
r	188 mm
k (encoder) (without brake)	235.7 mm
k (encoder) (with brake)	287.3 mm

k (resolver) (without brake)	226.5 mm
k (resolver) (with brake)	268.5 mm

## Ordering information

Order reference AM3073-wMyz-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.