

AM8742-wFyz | Servomotor with anodized housing 4.10 Nm (M₀), R4 (114 mm)



i Product status: Regular delivery

The servomotor AM8742 with anodized housing is designed for applications in food, pharmaceutical and chemical industries. It is suitable for drive solutions with highest demands on dynamics and performance in the 100...480 V AC voltage range. The motor is equipped with an OCT direct cable outlet and the standstill torque is 4.10 Nm. The servomotor with flange code R4 (114 mm) and motor length 2 has a shaft diameter b=19 k6 and a free shaft end of d=40 mm.

Product information

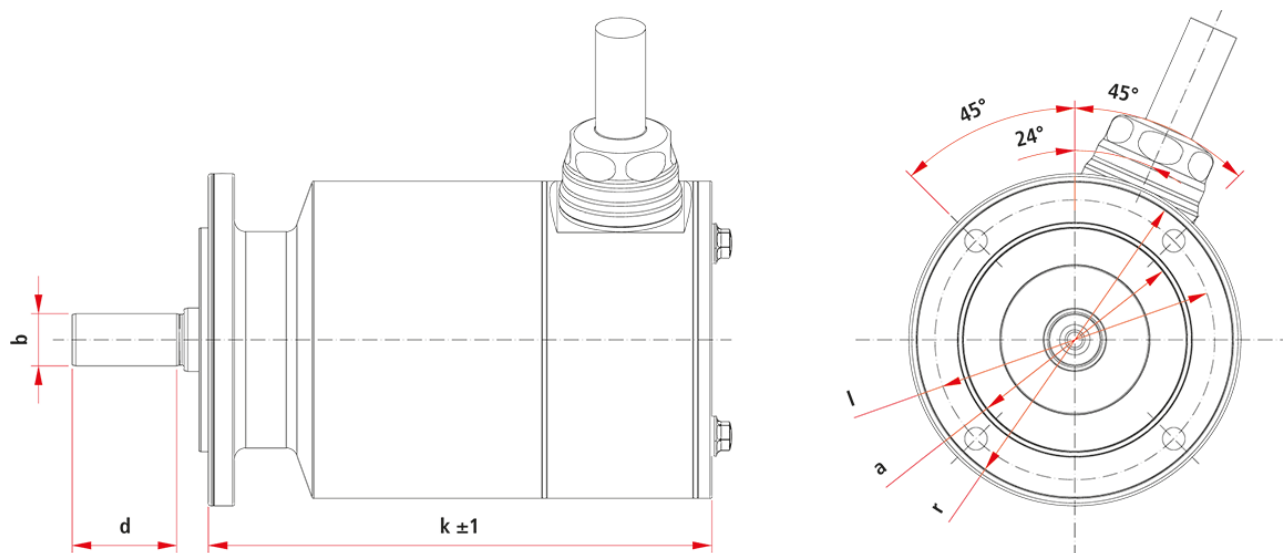
Technical data

Data for 400 V AC	AM8742-wFyz
Motor type	permanent magnet-excited three-phase synchronous motor
Nominal voltage	100...480 V AC
Standstill torque	4.10 Nm
Rated torque	3.70 Nm
Peak torque	18.90 Nm
Rated speed	5000 min ⁻¹
Rated power	1.94 kW
Standstill current	4.10 A
Peak current	22.70 A
Torque constant	1.00 Nm/A

Rotor moment of inertia	1.98 kgcm ²
Motor feedback	OCT, 24 bit, SIL 2 , Resolver , single-turn absolute encoder , multi-turn absolute encoder
Cooling	convection
Connection technology	M23 speedtec® socket or direct connection for AX5000/AX8000
Ambient temperature (operation)	+5...+40 °C
Approvals/markings	CE, cURus in preparation, EAC

All electric quantities are RMS values.

Housing data	AM87xx
Protection rating	IP69K not including shaft feedthrough
Design form	flange-mounted according to IM B5, IM V1, IM V3
Material	aluminum
Coating/surface	anodized



Dimensions	AM8742-wFyz
a	80 j6
b	19 k6
d	40 mm
l	100 mm
r	114 mm
k (without brake)	171 mm
k (with brake)	218 mm

Ordering information

Order reference AM8742-wFyz-caaa	
w = 0	smooth shaft with sealing ring IP69K exklusiv shaft feedthrough
w = 1	shaft with groove and feather key according to DIN 6885 and sealing ring IP69K exklusiv shaft feedthrough
y = 0	2-cable standard: feedback resolver
y = G	One Cable Technology for power and feedback: feedback transmission via motor cable, no feedback cable necessary, electronic identification plate, single-turn, absolute position within one revolution, resolution 24 bit, SIL 2 (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 identification plate, multi-turn, absolute position within 4096 revolutions, resolution 24 bit, SIL 2 (mandatory for TwinSAFE Safe Motion functions at AX8xxx-x2xx)
z = 0	without holding brake
z = 2	without holding brake, with sealing air connection
z = 1	with backlash-free permanent magnet holding brake
z = 3	with backlash-free permanent magnet holding brake, with sealing air connection
c = 0	motor connection via M23 speedtec® plug, cable length definable via aaa ⁽¹⁾
c = 2	direct connection for AX5000 up to 25 A (X13+X14), cable length definable via aaa
c = 3	direct connection for AX8000 (X13), cable length definable via aaa
aaa	length of the motor cable in decimeters
⁽¹⁾ For motor connection via an M23 speedtec® plug, a connecting cable ZK4500-80x3-xxxx/ZK4800-80x3-xxxx must also be ordered in the required length.	
The options cannot be installed in the field.	