

AM8851-wDyz | Stainless steel servomotors from 3.10 Nm (M₀)



i Product status: Regular delivery

The AM8851 stainless steel servomotor is suitable for use in the food, chemical and pharmaceutical industries in the 100... 480 V AC voltage range. The standstill torque of the motor is 3.10 Nm. It is available with the OCT feedback system (absolute encoder). The stainless steel servomotor with flange code R5 (134 mm) and motor length 1 has a shaft diameter b = 24 k6 and a free shaft end of d = 50 mm.

Product information

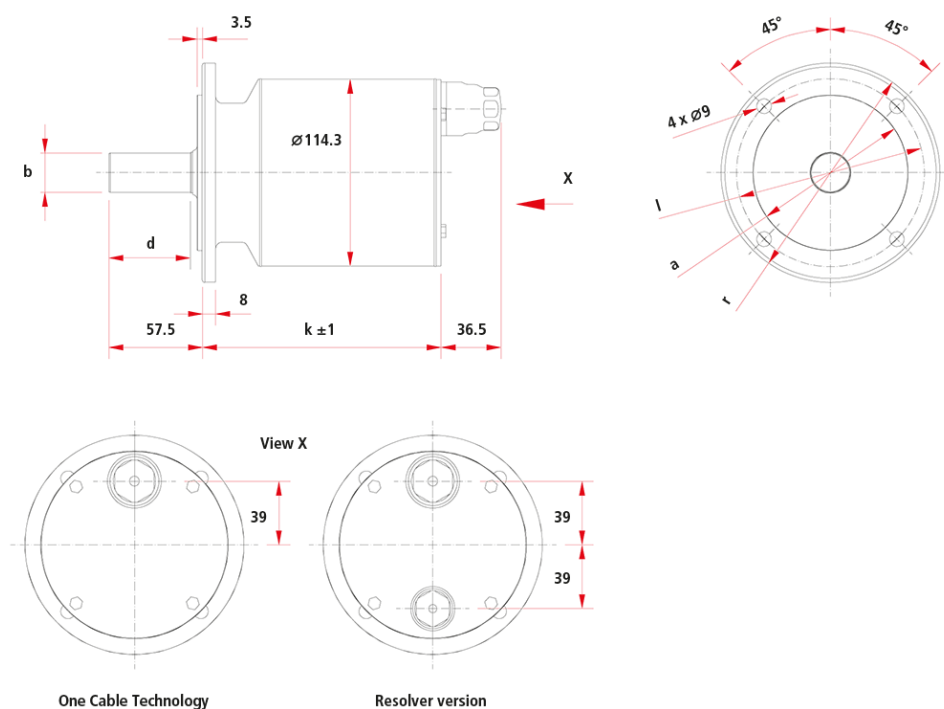
Technical data

Data for 400 V AC	AM8851-wDyz
Motor type	permanent magnet-excited three-phase synchronous motor
Nominal voltage	100...480 V AC
Standstill torque	3.10 Nm
Rated torque	2.70 Nm
Peak torque	17.20 Nm
Rated speed	2500 min ⁻¹
Rated power	0.71 kW
Standstill current	1.80 A
Peak current	12.10 A
Torque constant	1.722 Nm/A

Rotor moment of inertia	2.25 kgcm ²
Motor feedback	OCT, 18 bit , 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, EAC

All electric quantities are RMS values.

Housing data	AM88xx
Protection rating	IP69K
Design form	flange-mounted according to IM B5, IM V1, IM V3
Material	stainless steel
Coating/surface	stainless steel



Dimensions	AM8851-wDyz
a	95 j6
b	24 k6
d	50 mm
l	115 mm
r	134 mm
k (without brake)	146 mm

k (with brake)	192 mm
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Ordering information

Order reference AM8851-wDyz-caaa	
w = 0	smooth shaft with sealing ring IP69K
w = 1	shaft with groove and feather key according to DIN 6885 and sealing ring IP69K
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 identification plate, 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 identification plate, 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 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.	

Accessories

Accessories	
ZK450x-8003-xxxx	Motor cable 1.5 mm ² with M23 speedtec® plug, 12 A, fixed installation
ZK450x-8023-xxxx	motor cable 1.5 mm ² with M23 speedtec® plug, 12 A, highly flexible, for drag-chain use
ZK453x-8010-xxxx	Resolver cable 4 x 2 x 0.25 mm ² with M23 speedtec® plug, flexible for drag-chain use