



i AMP80xx | Distributed Servo Drive

The AMP8000 can be installed in place of a standard AM8000 or AM8500 servomotor. There is no need to modify existing machine design, since only the overall length has been changed, i.e. the other dimensions remain unchanged. Through the use of the latest output stage technologies, there is minimal derating, i.e. the performance data is almost on a par with the comparable standard motor type.

The AMP8000 is available with flange sizes F4 (2.01...4.80 Nm) and F5 (4.08...9.70 Nm). It can be equipped with either multi-turn or single-turn encoders. TwinSAFE (STO/SS1) is integrated as standard; Safe Motion will be available as an option.

Technical data	
Motor type	permanent magnet-excited three-phase synchronous motor with integrated servo drive
Magnet material	neodymium-iron-boron
Insulation class	thermal class F (155 °C)
Design form	flange-mounted according to IM B5, IM V1, IM V3
Protection class	IP 54, IP 65 (shaft seal)
Cooling	convection, permissible ambient temperature 40 °C
Coating/surface	dark grey powder coating, similar to RAL7016
Temperature sensor	integrated in stator winding
Connection method	round plug connector, swivelling, angled
Approvals/markings	CE, UL in preparation
Feedback system	absolute encoder single-turn and multi-turn (OCT)

Options	AMP80xx
Feather key groove	according to DIN 6885 P1
Holding brake backlash-free	permanent magnet single-surface brake, suitable only as holding brake
Shaft seal	radial shaft seal made of FPM
Feedback system option	safe absolute encoder single- and multi-turn
TwinSAFE safe drive technology	integrated TwinSAFE Logic, STO, SS1, SS2, SOS, SLS, SDIp, SDIn, SSM, SSR, SMS, SLP, SCA, SLI, SAR, SMA (in preparation)

i Product announcement	estimated market release 4th quarter 2019
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