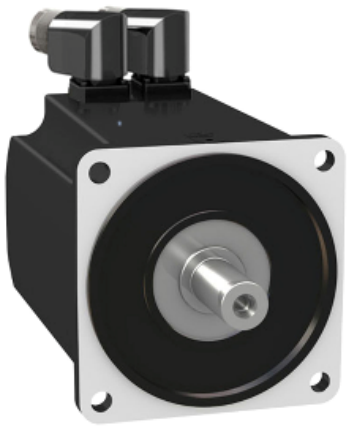
Product data sheet
Characteristics

MH31403P17F2200
servo motor MH3 140 27,8Nm,key,multi 16 lines,brake,IP65/IP67,3kRPM



Main

Range compatibility	PacDrive 3
Product or component type	AC servo motors
Device short name	MH3

Complementary

Maximum mechanical speed	4000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	18 A
Continuous stall torque	24 N.m at 115...480 V three phase
Continuous power	4750 W
Peak stall torque	75 N.m at 115...480 V three phase
Nominal output power	1.78 W at 115 V 3.55 W at 230 V 4.75 W at 400 V 4.75 W at 480 V
Nominal torque	22.17 N.m at 115 V 19.3 N.m at 230 V 13.06 N.m at 400 V 13.06 N.m at 480 V
Nominal speed	3500 rpm at 400 V 3500 rpm at 480 V 750 rpm at 115 V 1750 rpm at 230 V
Maximum current Irms	62.32 A
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm
Key width	8 mm

IP degree of protection	IP65 (standard)
Encoder type	Multiturn SinCos Hiperface
Speed feedback resolution	16 periods
Holding brake	With
Holding torque	23 N.m
Mounting support	International standard flange
Motor flange size	140 mm
Electrical connection	Rotatable right-angled connectors
Torque constant	1.33 N.m/A at 120 °C
Back emf constant	85.9 V/krpm
Number of motor poles	10
Rotor inertia	50.27 kg.cm²
Stator resistance	0.22 Ohm
Stator inductance	3 mH
Stator electrical time constant	13.6 ms
Maximum radial force Fr	1670 N at 3000 rpm 2420 N at 1000 rpm 1920 N at 2000 rpm
Brake pull-in power	19 W
Type of cooling	Natural convection
Length	267 mm
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Product weight	18.5 kg
Sizing reference	MH31403P
Temperature copper hot	135 °C

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1328 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations