

servo motor SH3 100 10Nm,key,multi,brake,90°conn.IP54/ IP65,6k RPM

SH31004P12F2000

EAN Code: 3606485297385

Main

Range compatibility	PacDrive 3
Device short name	SH3
Product or component type	Servo motor

Complementary

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Maximum mechanical speed	6000 rpm		
[Us] rated supply voltage	115480 V		
Network number of phases	Three phase		
Continuous stall current	6.2 A		
Continuous stall torque	10 N.m at 115480 V three phase		
Continuous power	2500 W		
Peak stall torque	40.5 N.m at 115480 V three phase		
Nominal output power	780 W at 115 V single phase		
	1490 W at 230 V single phase		
	2480 W at 400 V three phase		
	2600 W at 480 V three phase		
Nominal torque	9.9 N.m at 115 V single phase		
	9.5 N.m at 230 V single phase		
	7.9 N.m at 400 V three phase		
	6.9 N.m at 480 V three phase		
Nominal speed	750 rpm at 115 V single phase		
	1500 rpm at 230 V single phase		
	3000 rpm at 400 V three phase		
	3600 rpm at 480 V three phase		
Maximum current Irms	32.3 A		
Shaft end	Parallel key		
Shaft diameter	24 mm		
Shaft length	50 mm		
key width	8 mm		
IP degree of protection	IP54 shaft bushing without shaft seal ring: conforming to IEC 60034-5 IP65 motor: conforming to IEC 60034-5 IP65 shaft bushing: conforming to IEC 60034-5		
Encoder type	Absolute multiturn SinCos Hiperface		
Speed feedback resolution	128 periods		
Holding brake	With		
Holding torque	12 N.m		
Mounting support	International standard flange		

Motor flange size	100 mm	
Electrical connection	Straight connector	
Torque constant	1.62 N.m/A at 120 °C	
Back emf constant	103 V/krpm at 20 °C	
Number of motor poles	4.0	
Rotor inertia	5.245 kg.cm²	
Stator resistance	1.81 Ohm	
Stator inductance	6.5 mH	
Maximum radial force Fr	1070 N at 1000 rpm 850 N at 2000 rpm 740 N at 3000 rpm	
Maximum axial force Fa	160 N	
type of cooling	Natural convection	
Length	307.5 mm	
Centring collar diameter	95 mm	
centring collar depth	3.5 mm	
Number of mounting holes	4	
Mounting holes diameter	9.0 mm	
Circle diameter of the mounting holes	115 mm	
Net weight	9.9 kg	
Sizing reference	SH31004P	
Network number of phases	3	
Temperature copper hot	130 °C	
compatible drive output current 3s peak 2	27 A	
Electrical connection	rotatable right angled connector	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	20.000 cm
Package 1 Width	26.000 cm
Package 1 Length	59.500 cm
Package 1 Weight	11.000 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	75.000 cm
Package 2 Width	80.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	52.000 kg

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	5866
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Ead0850d-370a-47c5-8cf7-1d93c2c974a4
REACh Regulation	REACh Declaration
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins