Product data sheet
Characteristics

33452
molded case switch-disconnector Compact NS800 NA - 800 A - 3 poles

Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	8000 rpm
Continuous stall torque	2.2 N.m for LXM32.D12N4 3 A at 400 V three phase 2.2 N.m for LXM32.D12N4 3 A at 480 V three phase 2.12 N.m for LXM05AD10M2 at 200...240 V single phase 2.12 N.m for LXM05BD10M2 at 200...240 V single phase 2.12 N.m for LXM05CD10M2 at 200...240 V single phase 2.2 N.m for LXM15LD13M3 at 230 V single phase 2.12 N.m for LXM05AD17M2 at 200...240 V single phase 2.12 N.m for LXM05BD17M2 at 200...240 V single phase 2.12 N.m for LXM05CD17M2 at 200...240 V single phase 2.12 N.m for LXM05AD10M3X at 200...240 V three phase 2.12 N.m for LXM05BD10M3X at 200...240 V three phase 2.12 N.m for LXM05CD10M3X at 200...240 V three phase 2.2 N.m for LXM15LD10N4 at 480 V three phase 2.12 N.m for LXM05AD17M3X at 200...240 V three phase 2.12 N.m for LXM05AD14N4 at 380...480 V three phase 2.12 N.m for LXM05BD17M3X at 200...240 V three phase 2.12 N.m for LXM05BD14N4 at 380...480 V three phase 2.12 N.m for LXM05CD17M3X at 200...240 V three phase 2.12 N.m for LXM05CD14N4 at 380...480 V three phase 2.2 N.m for LXM15LD10N4 at 230 V three phase 2.2 N.m for LXM15LD10N4 at 400 V three phase
Peak stall torque	7.6 N.m for LXM32.D12N4 3 A at 400 V three phase 7.6 N.m for LXM32.D12N4 3 A at 480 V three phase 5.63 N.m for LXM15LD13M3 at 230 V single phase 4.57 N.m for LXM05AD10M2 at 200...240 V single phase 5.63 N.m for LXM05AD17M2 at 200...240 V single phase 4.57 N.m for LXM05BD10M2 at 200...240 V single phase 5.63 N.m for LXM05BD17M2 at 200...240 V single phase 4.57 N.m for LXM05CD10M2 at 200...240 V single phase 5.63 N.m for LXM05CD17M2 at 200...240 V single phase 4.85 N.m for LXM15LD10N4 at 230 V three phase 4.85 N.m for LXM15LD10N4 at 400 V three phase 4.85 N.m for LXM15LD10N4 at 480 V three phase 4.57 N.m for LXM05AD10M3X at 200...240 V three phase 5.63 N.m for LXM05AD17M3X at 200...240 V three phase 5.63 N.m for LXM05AD14N4 at 380...480 V three phase 4.57 N.m for LXM05BD10M3X at 200...240 V three phase 5.63 N.m for LXM05BD17M3X at 200...240 V three phase 5.63 N.m for LXM05BD14N4 at 380...480 V three phase 4.57 N.m for LXM05CD10M3X at 200...240 V three phase 5.63 N.m for LXM05CD17M3X at 200...240 V three phase

	5.63 N.m for LXM05CD14N4 at 380...480 V three phase
Nominal output power	850 W for LXM32.D12N4 3 A at 400 V three phase 850 W for LXM32.D12N4 3 A at 480 V three phase 597 W for LXM15LD13M3 at 230 V single phase 600 W for LXM05AD10M2 at 200...240 V single phase 600 W for LXM05AD17M2 at 200...240 V single phase 600 W for LXM05BD10M2 at 200...240 V single phase 600 W for LXM05BD17M2 at 200...240 V single phase 600 W for LXM05CD10M2 at 200...240 V single phase 600 W for LXM05CD17M2 at 200...240 V single phase 1000 W for LXM15LD10N4 at 400 V three phase 1300 W for LXM15LD10N4 at 480 V three phase 597 W for LXM15LD10N4 at 230 V three phase 600 W for LXM05AD10M3X at 200...240 V three phase 600 W for LXM05AD14N4 at 380...480 V three phase 600 W for LXM05AD17M3X at 200...240 V three phase 600 W for LXM05BD10M3X at 200...240 V three phase 600 W for LXM05BD14N4 at 380...480 V three phase 600 W for LXM05BD17M3X at 200...240 V three phase 600 W for LXM05CD10M3X at 200...240 V three phase 600 W for LXM05CD14N4 at 380...480 V three phase 600 W for LXM05CD17M3X at 200...240 V three phase
Nominal torque	1.64 N.m for LXM32.D12N4 3 A at 400 V three phase 1.64 N.m for LXM32.D12N4 3 A at 480 V three phase 1.9 N.m for LXM05AD10M2 at 200...240 V single phase 1.9 N.m for LXM05AD17M2 at 200...240 V single phase 1.9 N.m for LXM05BD10M2 at 200...240 V single phase 1.9 N.m for LXM05BD17M2 at 200...240 V single phase 1.9 N.m for LXM05CD10M2 at 200...240 V single phase 1.9 N.m for LXM05CD17M2 at 200...240 V single phase 1.9 N.m for LXM15LD13M3 at 230 V single phase 1.55 N.m for LXM15LD10N4 at 480 V three phase 1.65 N.m for LXM15LD10N4 at 400 V three phase 1.9 N.m for LXM05AD10M3X at 200...240 V three phase 1.9 N.m for LXM05AD14N4 at 380...480 V three phase 1.9 N.m for LXM05AD17M3X at 200...240 V three phase 1.9 N.m for LXM05BD10M3X at 200...240 V three phase 1.9 N.m for LXM05BD14N4 at 380...480 V three phase 1.9 N.m for LXM05BD17M3X at 200...240 V three phase 1.9 N.m for LXM05CD10M3X at 200...240 V three phase 1.9 N.m for LXM05CD14N4 at 380...480 V three phase 1.9 N.m for LXM05CD17M3X at 200...240 V three phase 1.9 N.m for LXM15LD10N4 at 230 V three phase
Nominal speed	5000 rpm for LXM32.D12N4 3 A at 400 V three phase 5000 rpm for LXM32.D12N4 3 A at 480 V three phase 3000 rpm for LXM05AD10M2 at 200...240 V single phase 3000 rpm for LXM05AD17M2 at 200...240 V single phase 3000 rpm for LXM05BD10M2 at 200...240 V single phase 3000 rpm for LXM05BD17M2 at 200...240 V single phase 3000 rpm for LXM05CD10M2 at 200...240 V single phase 3000 rpm for LXM05CD17M2 at 200...240 V single phase 3000 rpm for LXM15LD13M3 at 230 V single phase 3000 rpm for LXM05AD10M3X at 200...240 V three phase 3000 rpm for LXM05AD14N4 at 380...480 V three phase 3000 rpm for LXM05BD10M3X at 200...240 V three phase 3000 rpm for LXM05BD14N4 at 380...480 V three phase 3000 rpm for LXM05CD10M3X at 200...240 V three phase 3000 rpm for LXM05CD14N4 at 380...480 V three phase 3000 rpm for LXM05AD17M3X at 200...240 V three phase 3000 rpm for LXM05BD17M3X at 200...240 V three phase 3000 rpm for LXM05CD17M3X at 200...240 V three phase 8000 rpm for LXM15LD10N4 at 480 V three phase 3000 rpm for LXM15LD10N4 at 230 V three phase 6000 rpm for LXM15LD10N4 at 400 V three phase
Product compatibility	LXM05AD10M2 at 200...240 V single phase LXM05AD17M2 at 200...240 V single phase LXM05BD10M2 at 200...240 V single phase LXM05BD17M2 at 200...240 V single phase LXM05CD10M2 at 200...240 V single phase LXM05CD17M2 at 200...240 V single phase LXM15LD13M3 at 230 V single phase LXM05AD10M3X at 200...240 V three phase LXM05BD10M3X at 200...240 V three phase LXM05CD10M3X at 200...240 V three phase

	LXM05AD14N4 at 380...480 V three phase LXM05BD14N4 at 380...480 V three phase LXM05CD14N4 at 380...480 V three phase LXM15LD10N4 at 400 V three phase LXM05AD17M3X at 200...240 V three phase LXM05BD17M3X at 200...240 V three phase LXM05CD17M3X at 200...240 V three phase LXM32.D12N4 at 400 V three phase LXM32.D12N4 at 480 V three phase LXM15LD10N4 at 230 V three phase LXM15LD10N4 at 480 V three phase
Shaft end	Keyed
IP degree of protection	IP50 (standard)
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 05 Lexium 15 Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	2.9 A
Continuous power	1.51 W
Maximum current Irms	11.8 A for LXM05AD10M2 11.8 A for LXM05AD10M3X 11.8 A for LXM05AD14N4 11.8 A for LXM05AD17M2 11.8 A for LXM05AD17M3X 11.8 A for LXM05BD10M2 11.8 A for LXM05BD10M3X 11.8 A for LXM05BD14N4 11.8 A for LXM05BD17M2 11.8 A for LXM05BD17M3X 11.8 A for LXM05CD10M2 11.8 A for LXM05CD10M3X 11.8 A for LXM05CD14N4 11.8 A for LXM05CD17M2 11.8 A for LXM05CD17M3X 11.8 A for LXM15LD10N4 11.8 A for LXM15LD13M3 11.8 A for LXM32.D12N4
Maximum permanent current	11.8 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	11 mm
Shaft length	23 mm
Key width	18 mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	2 N.m (holding brake)
Motor flange size	70 mm
Number of motor stacks	2
Torque constant	0.77 N.m/A at 120 °C
Back emf constant	48 V/krpm at 120 °C
Number of motor poles	6
Rotor inertia	0.482 kg.cm²
Stator resistance	4.2 Ohm at 20 °C
Stator inductance	19 mH at 20 °C
Stator electrical time constant	4.52 ms at 20 °C

Maximum radial force Fr	390 N at 6000 rpm 410 N at 5000 rpm 450 N at 4000 rpm 490 N at 3000 rpm 560 N at 2000 rpm 710 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	10 W
Type of cooling	Natural convection
Length	212.5 mm
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Product weight	3 kg
Sizing reference	BSH0702P
Network number of phases	3
Accuracy error [angular]	1.4 °
Coefficient 1_1	-5.00000000009391E-05 N.m/rpm
Coefficient 1_2	1.357043579733E-18 N.m/rpm²
Coefficient 1_3	-7.20888839E-22 N.m/rpm3
Coefficient 1_4	0.00000000000000000000000001740 N.m/rpm4
Coefficient 1_5	0.00000000000000000000000000000 N.m/rpm5
Coefficient 1_6	0 N.m/rpm6
Saturation coefficient 1	-5.1039779039E-18
Saturation coefficient 2	-0.00748413131855247
Saturation coefficient 3	2.300384407E-19
Temperature copper hot	120 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C
Motor voltage drop coefficient	1

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0850 - 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

Contractual warranty

Warranty period	18 months