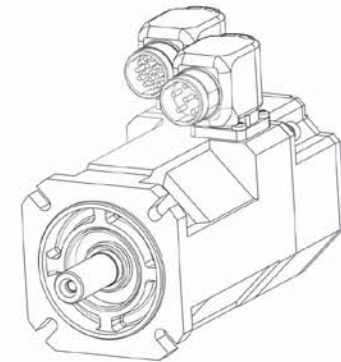
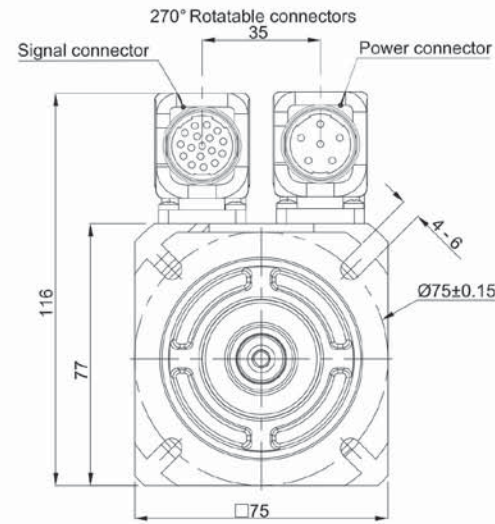
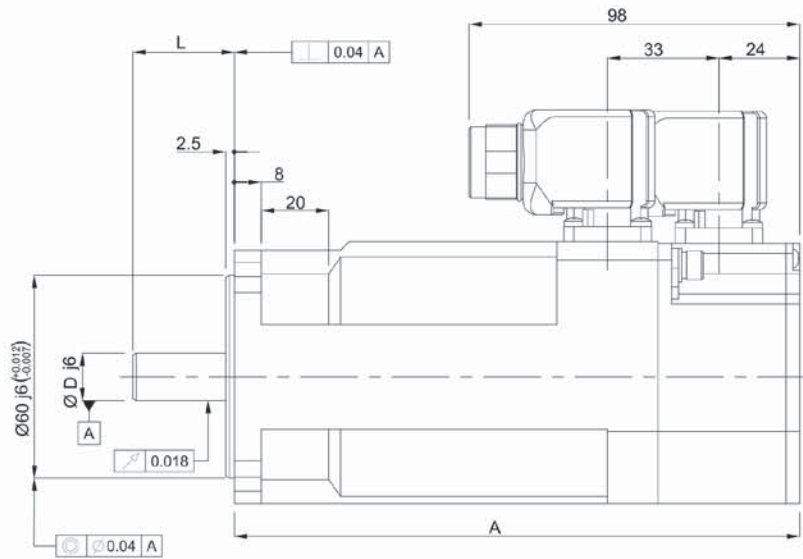


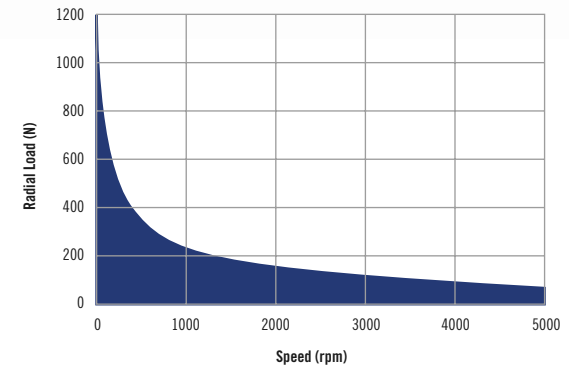
U303N Models



DIMENSIONS

MOTOR TYPE	A ⁽¹⁾	A ⁽¹⁾ (with brake or inertia)	Shaft Dimensions	
			Ø D * L ⁽²⁾	Ø D * L with key
U303N02	168	198	14*30	14*30
U303N04	222	252	14*30	14*30

Max. Radial Load
applicable in the middle of the shaft extension



1) Be carefully, with encoder: EQN1337; ECN1325 the total length is an additional 5mm.
 2) Shaft dimension according to DIN 748-1 column (b): simultaneous transmission of torque and a known bending moment.

U318
U313
U310
U307
U305
U303

Natural Convection Cooling - For inverter rated Voltage 380Vac to 480Vac

Motor Type			02	04
Rated Speed	nM	[rpm]	5000	5000
Stall Torque 1)	Md0	[Nm]	2,15	3,7
Current @ Stall Torque 1)	Id0	[A]	1,9	3,27
Number of Poles	2p			8

Nominal Rating				
Rated Torque 1)	MdN	[Nm]	1,57	2,1
Rated Current 1)	IdN	[A]	1,26	2,09
Rated Power	PdN	[kW]	0,82	1,10
Voltage Constant (+/- 10%)	Ke20°C	[Vrms/1000rpm]	73,22	73,22
Torque Constant (+/- 10%)	Kt20°C	[Nm/A]	1,21	1,21
Winding Resistance (+/- 10%)	Ru-v	[Ω]	9,5	3,67
Winding Inductance (+/- 10%)	Lu-v	[mH]	17,49	8,75
Derating Temp. Coeff. Of Back EMF	Dke/Dt	[%/°C]		-0,11
Nominal Voltage	Vn	[V]	362	357
Losses	Loss	[kW]	0,830	0,940
Minimum Flow Rate	Flow	[L/min]		n.a.
Efficiency	Eff	[%]	0,890	0,930
Knee Speed @ 380Vac	nknee1	[rpm]	5264	5336
Knee Speed @ 480Vac	nknee2	[rpm]	6813	6879
Knee Speed 380Vac and Mmax	nknee3	[rpm]	2958	3210
Knee Speed 480Vac and Mmax	nknee4	[rpm]	4314	4272

Maximum Values				
Max. Torque	Mmax	[Nm]	10	20
Max. Current (peak value)	Imax	[A]	10,3	20,6
Max. Saturation Speed @ 380Vac	nmax1	[rpm]	5520	5520
Max. Saturation Speed @ 480Vac	nmax2	[rpm]	6960	6960
Max. Mechanical Speed	nmax	[rpm]		6000

Mechanical Data (+/- 10%)				
Inertia	Jm	[kgcm ²]	0,89	1,7
Mass	M	[kg]	3,2	4

Technical Data of the holding brake				
Holding Torque	MBr	[Nm]		3,8
Rated Voltage (±10%)	UBr	[Vdc]		24
Rated Current 1)	IBr	[A]		0,54
Mass	MBr	[kg]		0,55
Inertia	JBr	[kgcm ²]		0,42
Additional motor length	Length	[mm]		30

Test Condition

1) Motor flanged on heatsink 300x300x20; Chopper frequency 8kHz