Product Type iX7 Series

iX7	NH	A	004	U	AA
Series Name	**Drive Type**	**Input Voltage**	**Drive Capacity**	**Encoder Type**	**Option**
iX7 Series	NH : Network High Performance	A : AC 230[V]	001 : 200[W] 002 : 400[W] 004 : 400[W] 008 : 800[W] 010 : 1[kW] 020 : 2[kW] 035 : 3.5[kW]	U : Universal	Blank : Standard Product Marking : Exclusive Option

iX7	M	A	4	4	4	4	B	AA
			Drive Capacity1	Drive Capacity2	Drive Capacity3	Drive Capacity4		
Series Name	**Drive Type**	**Input Voltage**	**Drive Capacity**				**Encoder Type**	**Option**
iX7 Series	M : Intelligent Multi Servo	A : AC 230[V]	2 : 200[W] 4 : 400[W] 8 : 750[W] A : 1[kW] X : No Axis				B : BiSS	Blank : Standard Product Marking : Exclusive Option

LS ELECTRIC

Technical Data Sheet: Derating iX7NH with Single Phase 230 VAC

LS Xmotion iX7NH drive is designed for 3 phase 220/230 VAC.

Using iX7NH drive on Single Phase 230 VAC power supply, *Maximum Torque* needs to be changed:

- DriveCM parameter 0x6072: maximum torque that the motor can output in 0.1% increments of the rated torque.

Drive (iX7NH Series)	Unit	100W	200W	400W	750W	1kW	2kW	3.5kW
Rated Current	[Arms]	1.4	1.7	3.0	5.2	6.75	13.5	16
Input Voltage	Available Maximum Torque for AC 230 VAC:							
3 Phase 230 VAC	[%]	350	350	350	350	300	300	300
Single Phase 230 VAC	[%]	350	350	350	350	250	180	150

Remarks:

- **Connect 1 phase 230 VAC L / N to L1 / L3 for Power Supply**
- **Connect 1 phase 230 VAC L / N to C1 / C2 for Control Power**
- **Select a bigger sized drive when derating doesn't match required max torque for application with calculated derating**

Technical Data Sheet: Derating iX7M with Single Phase 230 VAC

LS Xmotion iX7M Multi drive is designed for 3 phase 220/230 VAC.

Using iX7M on Single Phase 230 VAC power supply, *Maximum Torque* needs to be changed:

- DriveCM parameter 0x6072: maximum torque that the motor can output in 0.1% increments of the rated torque.

Drive (iX7M Series)	Unit	iX7MA 22XXB	iX7MA 44XXB	iX7MA 88XXB	iX7MA AAXXB	iX7MA 222XB	iX7MA 444XB	iX7MA 2222B	iX7MA 4444B
Drive Capacity	1 Axis	200W	400W	750W	1kW	200W	400W	200W	400W
	2 Axis	200W	400W	750W	1kW	200W	400W	200W	400W
	3 Axis	-	-	-	-	200W	400W	200W	400W
	4 Axis	-	-	-	-	-	-	200W	400W
Input Voltage	Available Maximum Torque for AC 230 VAC:								
3 Phase 230 VAC	[%]	350	350	350	350	350	350	350	350
Single Phase 230 VAC	[%]	240	180	170	160	210	170	200	170

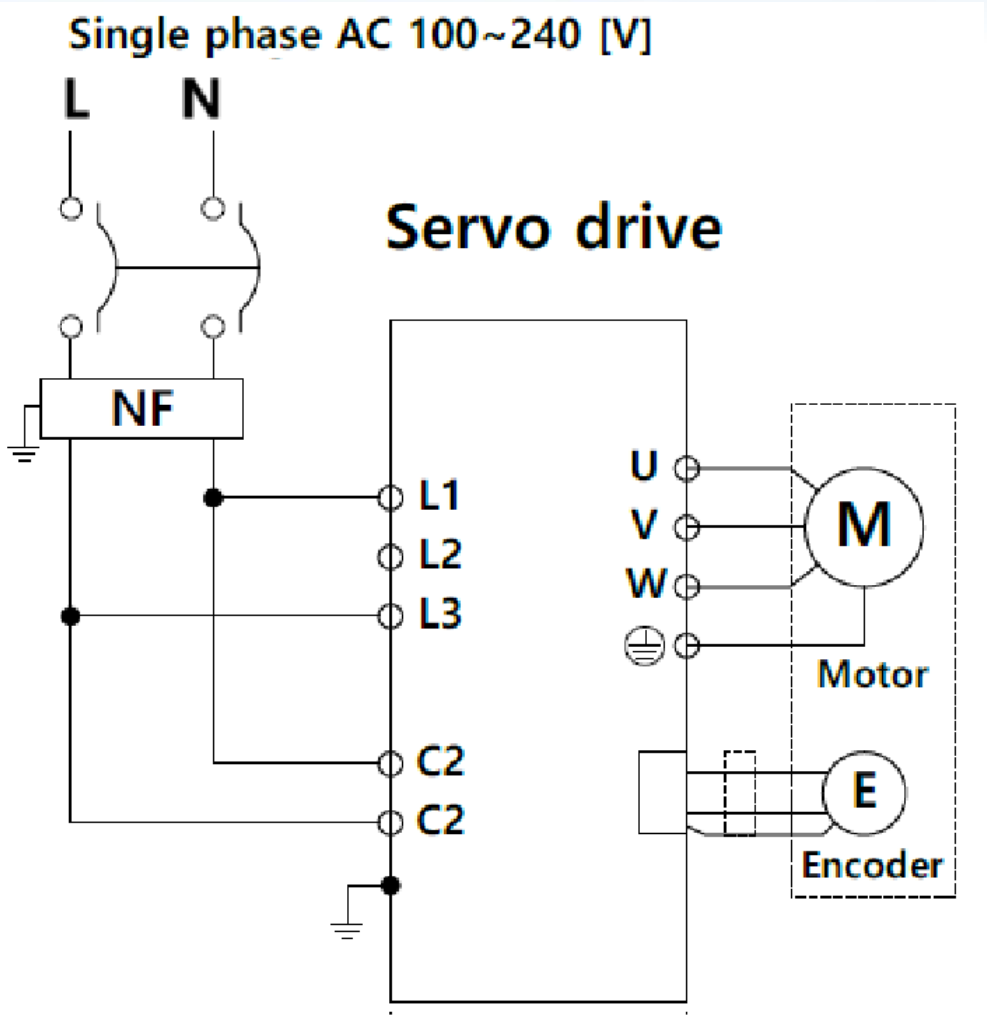
Remarks:

- **Connect 1 phase 230 VAC L / N to L1 / L3 for Power Supply**
- **Connect 1 phase 230 VAC L / N to C1 / C2 for Control Power**
- **Select a bigger sized drive when derating doesn't match required max torque for application with calculated derating**

Technical Data Sheet: Derating iX7M with Single Phase 230 VAC

Maximum load table of a single phase 230 VAC power supply input

Drive (iX7M Series)	Unit	Drive Max. Load		Example				
		Load for Total	Load for Each Axis	Axis(A)	Axis(B)	Axis(C)	Axis(D)	Average Max. Load
iX7M-A-22XXB	[%]	480	240	300	180			(A+B)/2 = 240
iX7M-A-44XXB	[%]	360	180	250	110			(A+B)/2 = 180
iX7M-A-88XXB	[%]	340	170	250	90			(A+B)/2 = 170
iX7M-A-AAXXB	[%]	320	160	250	70			(A+B)/2 = 160
iX7M-A-222XB	[%]	630	210	300	180	150		(A+B+C)/3 = 210
iX7M-A-444XB	[%]	510	170	250	140	120		(A+B+C)/3 = 170
iX7M-A-4444B	[%]	800	200	300	250	140	110	(A+B+C+D)/4 = 200
iX7M-A-2222B	[%]	680	170	250	150	140	140	(A+B+C+D)/4 = 170

Caution: maximum load of each axis is limited to 350%

Example of Wiring iX7M / iX7NH on Single Phase 230 VAC