

Recommended Service Factors (S.F.)

SELECTION ON SERVICE FACTOR (S.F.)

When your applications involve conditions more severe than the rating basis of the DARALI® DRIVES, select the frame size having horse power rating equal to or larger than the value obtained by multiplying the actual load by "Service Factor". Chose Service Factor of 2.0 or larger for applications involving frequent start/stop and clutch.

Service Factors for DARALI™ DRIVES

Duration Of Service	Load Nature		
	Uniform	Moderate Shock	Heavy Shock
Up to 3 hrs. per day	1.0	1.0	1.35
3-10 hrs. per day	1.0	1.2	1.5
10-24 hrs. per day	1.2	1.35	1.6

Reduction Ratio & Output Speed

Input Speed (rpm)	Reduction Ratio															
	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87	
1750 rpm (60Hz - 4P)	292	219	159	135	117	103	83	70	60	50	41	34	30	25	20	
1460 rpm (50Hz - 4P)	243	183	133	112	97	86	70	58	50	42	34	29	25	21	17	
1165 rpm (60Hz - 6P)	194	146	106	90	78	69	55	47	40	33	27	23	20	16	13	
870 rpm (60Hz - 8P)	145	109	79	67	58	51	41	35	30	25	20	17	15	12	10	

How to use the chart below?

By knowing three variables (input hp, class of service, and reduction ratio) in your application, you can quickly select the correct frame size of DARALI® DRIVES that will suffice your usage needs.

We manufacture all the reduction ratios listed above, and also carry extensive inventory of spare parts. However, in designing your applications, please select the following standard reduction ratios as much as possible: 11:1, 17:1, 21:1, 29:1, 35:1, 43:1, 59:1, 87:1.

Quick Selection Chart Based On Input HP and Service Class

INPUT HP @ 1750 RPM	AGMA		DARALI DRIVE		REDUCTION RATIO AND FRAME SIZES															
	CLASS	S.F.	CLASS	S.F.	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87	
1/8	Class I	1.0	Class I	1.0	B08	B08	B07	B07	B07	B07	B07	B07	B07	B07	B07	B08	B08	B09	B09	
	Class II	1.4	Class II	1.3	B08	B08	B07	B07	B07	B07	B07	B07	B07	B07	B08	B08	B08	B09	B09	
	Class III	2.0	Class III	1.6	B08	B08	B07	B07	B07	B07	B07	B07	B07	B07	B08	B08	B09	B09	B09	
1/4	Class I	1.0	Class I	1.0	B08	B08	B07	B07	B07	B07	B07	B08	B08	B08	B08	B09	B09	B09	B09	
	Class II	1.4	Class II	1.3	B08	B08	B07	B07	B07	B07	B08	B08	B08	B08	B09	B09	B09	B10	B10	
	Class III	2.0	Class III	1.6	B08	B08	B08	B08	B08	B08	B08	B09	B09	B09	B09	B09	B09	B10	B10	
1/2	Class I	1.0	Class I	1.0	B08	B08	B08	B08	B08	B08	B08	B09	B09	B09	B09	B10	B10	B10	B10	
	Class II	1.4	Class II	1.3	B09	B09	B09	B09	B09	B09	B09	B09	B09	B09	B10	B10	B10	B10	B10	
	Class III	2.0	Class III	1.6	B09	B09	B09	B09	B09	B09	B09	B09	B09	B09	B10	B10	B10	B10	B11	
1	Class I	1.0	Class I	1.0	B09	B09	B09	B09	B09	B09	B10	B10	B10	B10	B10	B11	B11	B11	B11	
	Class II	1.4	Class II	1.3	B09	B09	B09	B09	B09	B09	B10	B10	B10	B10	B11	B11	B11	B11	B11	
	Class III	2.0	Class III	1.6	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B11	B11	B11	B13	B13	
2	Class I	1.0	Class I	1.0	B10	B10	B10	B10	B10	B10	B10	B10	B11	B11	B11	B11	B11	B13	B13	
	Class II	1.4	Class II	1.3	B10	B10	B10	B10	B10	B10	B10	B11	B11	B11	B11	B11	B11	B12	B13	
	Class III	2.0	Class III	1.6	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B13	B12	B13	B14	B15	
3	Class I	1.0	Class I	1.0	B11	B11	B10	B11	B10	B11	B11	B11	B11	B11	B11	B12	B13	B14	B14	
	Class II	1.4	Class II	1.3	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B13	B14	B14	B15	B16	
	Class III	2.0	Class III	1.6	B11	B11	B11	B11	B11	B11	B11	B11	B11	B13	B13	B14	B15	B15	B17	
5	Class I	1.0	Class I	1.0	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B13	B13	B15	B16	B17	
	Class II	1.4	Class II	1.3	B11	B11	B11	B11	B11	B11	B13	B13	B13	B14	B16	B16	B16	B17	B17	
	Class III	2.0	Class III	1.6	B13	B13	B13	B13	B13	B13	B13	B14	B15	B15	B16	B17	B17	B17	B18	
7 1/2	Class I	1.0	Class I	1.0	B12	B12	B12	B12	B12	B12	B13	B13	B14	B15	B16	B16	B16	B17	B18	
	Class II	1.4	Class II	1.3	B13	B13	B13	B13	B13	B13	B14	B15	B16	B16	B16	B17	B17	B18	B18	
	Class III	2.0	Class III	1.6	B13	B13	B13	B13	B14	B13	B16	B16	B16	B16	B17	B17	B18	B18	B19	
10	Class I	1.0	Class I	1.0	B13	B13	B13	B13	B13	B13	B14	B15	B16	B16	B16	B16	B17	B18	B18	
	Class II	1.4	Class II	1.3	B13	B13	B13	B13	B14	B14	B16	B16	B16	B16	B17	B18	B18	B18	B19	
	Class III	2.0	Class III	1.6	B14	B14	B14	B16	B16	B16	B16	B16	B17	B17	B17	B18	B19	B19	B19	
15	Class I	1.0	Class I	1.0	B15	B15	B15	B15	B15	B16	B16	B16	B17	B17	B18	B18	B19	B19	B19	
	Class II	1.4	Class II	1.3	B15	B15	B15	B16	B16	B16	B16	B17	B17	B18	B18	B18	B19	B19	B20	
	Class III	2.0	Class III	1.6	B16	B16	B16	B16	B16	B17	B17	B17	B17	B18	B18	B19	B19	B20	B21	
20	Class I	1.0	Class I	1.0	B16	B16	B15	B16	B16	B16	B16	B17	B17	B18	B18	B19	B19	B19	B20	
	Class II	1.4	Class II	1.3	B16	B16	B16	B16	B17	B17	B17	B18	B18	B18	B19	B19	B20	B21	B21	
	Class III	2.0	Class III	1.6	B17		B17	B17	B17	B18	B18	B18	B19	B19	B19	B20	B21	B21	B22	
25	Class I	1.0	Class I	1.0	B16	B16	B16	B16	B16	B17	B17	B18	B18	B18	B19	B19	B20	B20	B21	
	Class II	1.4	Class II	1.3	B17		B17	B17	B17	B18	B18	B18	B19	B19	B20	B20	B21	B21	B22	
	Class III	2.0	Class III	1.6			B18	B18	B18	B18	B18	B19	B19	B20	B20	B21	B21	B22		
30	Class I	1.0	Class I	1.0	B17		B17	B17	B17	B18	B18	B18	B19	B19	B19	B20	B21	B21	B22	
	Class II	1.4	Class II	1.3			B18	B18	B18	B18	B18	B19	B19	B20	B20	B21	B21	B22		
	Class III	2.0	Class III	1.6			B19	B19	B19	B19	B19	B19	B20	B20	B21	B21	B22			
40	Class I	1.0	Class I	1.0			B18	B18	B18	B18	B18	B19	B19	B20	B20	B21	B21			
	Class II	1.4	Class II	1.3			B19	B19	B19	B19	B19	B19	B20	B21	B21	B22				
	Class III	2.0	Class III	1.6			B20	B20	B20	B20	B20	B20	B21	B21	B22					
50	Class I	1.0	Class I	1.0			B19	B19	B19	B19	B19	B19	B20	B20	B21	B22				
	Class II	1.4	Class II	1.3			B20	B20	B20	B20	B20	B20	B21	B21	B22					
	Class III	2.0	Class III	1.6			B21	B21	B21	B21	B21	B21	B22	B22						

Specifications subject to change without prior notice.