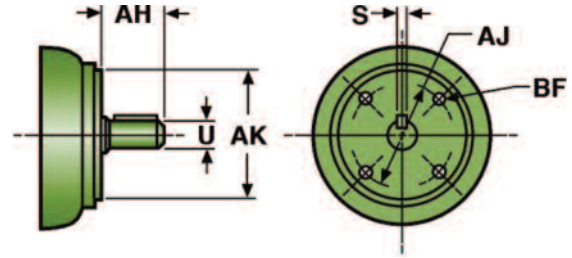


TABLE 6 - NEMA 'C' Face Motor Dimensions



U-Frame Dimensions

	182UC	213UC	254UC	284UC	324UC	324UC	364UC	364UC	404UC	404UC	444UC	444UC
	184UC	215UC	256UC	286UC	326UC	326UC	365UC	365UC	405UC	405UC	445UC	445UC
AH	2.125	2.75	3.50	4.625	3.00	5.375	3.50	6.125	4.00	6.875	4.00	8.375
U	7/8	1 1/8	1 3/8	1 5/8	1 5/8	1 7/8	1 7/8	2 1/8	2 1/8	2 3/8	2 1/8	2 7/8
S	3/16	1/4	5/16	3/8	3/8	1/2	1/2	1/2	1/2	5/8	1/2	3/4
AK	4.50	8.50	8.50	10.50	12.50	12.50	12.50	12.50	12.50	12.50	16.00	16.00
AJ	5.875	7.25	7.25	9.00	11.00	11.00	11.00	11.00	11.00	11.00	14.00	14.00
BF	3/8-16	1/2-13	1/2-13	1/2-13	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11
HP*	1 2	3 5	7.5 10	15 20	25 30	25 30	40 50	40 35	60 75	60 75	125 150	125 150

T-Frame Dimensions

	056C	143TC	182TC	213TC	254TC	284TSC	284TC	324TSC	324TC	364TSC	364TC	404TSC	404TC	444TSC	444TC
		145TC	184TC	215TC	256TC	286TSC	286TC	326TSC	326TC	365TSC	365TC	405TSC	405TC	449TSC	449TC
AH	2.062	2.125	2.625	3.125	3.75	3.00	4.375	3.50	5.00	3.50	5.625	4.00	7.00	4.50	8.25
U	5/8	7/8	1 1/8	1 3/8	1 5/8	1 5/8	1 7/8	1 7/8	2 1/8	1 7/8	2 3/8	2 1/8	2 7/8	2 3/8	3 3/8
S	3/16	3/16	1/4	5/16	3/8	3/8	1/2	1/2	1/2	1/2	5/8	1/2	3/4	5/8	7/8
AK	4.50	4.50	8.50	8.50	8.50	10.50	10.50	12.50	12.50	12.50	12.50	12.50	12.50	16.00	16.00
AJ	5.875	5.875	7.25	7.25	7.25	9.00	9.00	11.00	11.00	11.00	11.00	11.00	11.00	14.00	14.00
BF	3/8-16	3/8-16	1/2-13	1/2-13	1/2-13	1/2-13	1/2-13	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11
HP*	1/4 1/2	1 2	3 5	7.5 10	15 20	25 30	25 30	40 50	40 50	60 75	60 75	100 125	100 125	150 200	150 200

* Horse Power at 1750 RPM

Magnaloy Cast Aluminum Mounts

MAGNALOY CAST ALUMINUM MOUNTS are permanent mold cast of lightweight, high strength aluminum alloy and incorporate many unique design features. Custom molded OSHA orange coupling access covers are included for mounts larger than motor group size 056. These covers are quickly and securely retained via a lip-tab on one end and a single self-tapping screw on the other. Magnaloy's horizontal mounts are supplied with a pre-cast drain hole for residual fluids. This unique feature assists in quick detection of leaky seals and other trouble areas.

Using Magnaloy's Pump/Motor Mounts ensure a lightweight, high strength, precision mount for efficient assembly, quiet operation, accurate shaft alignment and complete coupling concealment.

Magnaloy Horizontal Pump/Motor Mounts

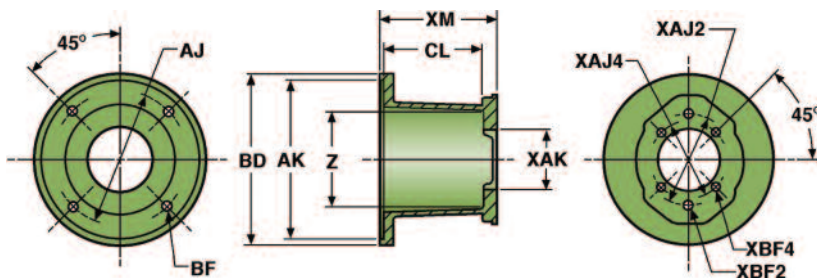
MAGNALOY'S HORIZONTAL PUMP/MOTOR MOUNTS are available for mounting NEMA C'Face motors in frame sizes 56C through 449TSC to most SAE and Metric 2 and 4 bolt pump flanges.

A MOUNT KIT is included which contains all the bolts and washers required to attach the pump and motor to the mount.

Horizontal Mount Selection Method

1. Check TABLES 2 thru 5 to determine pump flange size.
2. Measure the pump shaft length from the shaft end to the flange mounting face and ADD to the motor shaft length shown in TABLE 6. An additional 1/16 inch (minimum) is recommended for shaft end clearance.
3. Refer to the appropriate TABLE (7 thru 11) according to the NEMA motor frame size and locate the applicable pump flange selection from STEP 1, above.
4. Select the mount length option (dimension 'XM' or 'M' in tables) based on the minimum length determined in STEP 2, above.
5. Check for proper clearance between the mount inner surfaces and the coupling O.D. (dimension 'Z' and 'CL' in tables). Dimensional data for Magnaloy Couplings is shown in TABLE 1 for reference. A complete Magnaloy Coupling catalog is available upon request or visit www.magnaloy.com.

Consult your Magnaloy Distributor for Magnaloy's Product CD ROM which includes the Magnaloy Pump/Motor Mount Selection Program for easy, computerized mount selection.



**TABLE 7 - NEMA Frames 56C, 143TC/145TC, 182UC/184UC
Horizontal Mounting (or Vertical Mounting - Option A)**

MOTOR END DATA		PUMP END DATA					3.50 LENGTH			4.25 LENGTH			4.50 LENGTH				
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
5.88	7/16	6.81	4.501														
USA4F17	4 Bolt	1.782					2.84	5/16-18	M056354F	2.81	3.50	M056424F	3.56	4.25	M056454F	3.81	4.50
SAE AA	2 Bolt	2.001	3.25	3/8-16					M056352AA	2.81	3.50	M056422AA	3.56	4.25	M056452AA	3.81	4.50
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16			M056352A	2.81	3.50	M056422A	3.56	4.25	M056452A	3.81	4.50
80 2A/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18			M0563580M	2.81	3.50	M0564280M	3.56	4.25	M0564580M	3.81	4.50
80 S4	4 Bolt	80.01mm			100mm	5/16-18			M0563580MS	2.81	3.50	M0564280MS	3.56	4.25	M0564580MS	3.81	4.50

MOTOR END DATA		PUMP END DATA					5.00 LENGTH			5.25 LENGTH				
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
5.88	7/16	6.81	4.501											
USA4F17	4 Bolt	1.782					2.84	5/16-18	M056504F	4.31	5.00	M056524F	4.56	5.25
SAE AA	2 Bolt	2.001	3.25	3/8-16					M056502AA	4.31	5.00	M056522AA	4.56	5.25
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16			M056502A	4.31	5.00	M056522A	4.56	5.25
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13			M056502B*	3.93	5.00	M056522B*	4.18	5.25
80 2A/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18			M0565080M	4.31	5.00	M0565280M	4.56	5.25
80 S4	4 Bolt	80.01mm			100mm	5/16-18			M0565080MS	4.31	5.00	M0565280MS	4.56	5.25
80 S4	4 Bolt	80.01mm			100mm	5/16-18			M05650100M*	3.93	5.00	M05652100M*	4.18	5.25

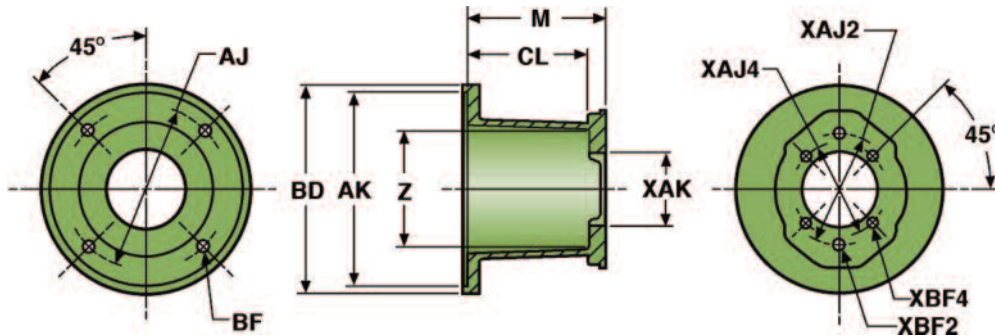


TABLE 8A - NEMA Frames 182TC - 256TC, 213UC - 256UC
Horizontal Mounting (or Vertical Mounting - Option A)



MOTOR END DATA
AJ BF BD AK
7.25 17/32 9.00 8.501

RADIAL CLEARANCE "Z" = 5.00

182-A Casting

		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M	MOUNT NO.	CL	M
USA4F17	4 Bolt	1.782			2.84	5/16-18	M182474F	4.00	4.75	M182504F	4.31	5.00	M182524F	4.31	5.25
SAE AA	2 Bolt	2.001	3.25	3/8-16			M182472AA	4.00	4.75	M182502AA	4.31	5.00	M182522AA	4.31	5.25
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	M182472A	4.00	4.75	M182502A	4.31	5.00	M182522A	4.31	5.25
80 2A/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	M1824780M	4.00	4.75	M1825080M	4.31	5.00	M1825280M	4.31	5.25
80 S4	4 Bolt	80.01mm			100mm	5/16-18	M1824780MS	4.00	4.75	M1825080MS	4.31	5.00	M1825280MS	4.31	5.25

PUMP FLANGE PUMP END DATA 4.75 LENGTH 5.0 LENGTH 5.25 LENGTH

MOTOR END DATA
AJ BF BD AK
7.25 17/32 9.00 8.501

RADIAL CLEARANCE "Z" = 5.00

182-B Casting

		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M	MOUNT NO.	CL	M
USA4F17	4 Bolt	1.782			2.84	5/16-18	M182584F	5.06	5.81	M182684F	6.06	6.81			
SAE AA	2 Bolt	2.001	3.25	3/8-16			M182582AA	5.06	5.81	M182682AA	6.06	6.81			
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	M182582A	5.06	5.81	M182682A	6.06	6.81			
80 2A/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	M1825880M	5.06	5.81	M1826880M	6.06	6.81			
80 S4	4 Bolt	80.01mm			100mm	5/16-18	M1825880MS	5.06	5.81	M1826880MS	6.06	6.81			

PUMP FLANGE PUMP END DATA 5.81 LENGTH 6.81 LENGTH



TABLE 8B - NEMA Frames 182TC - 256TC, 213UC - 256UC
Horizontal Mounting

MOTOR END DATA
AJ BF BD AK
7.25 17/32 9.00 8.501

RADIAL CLEARANCE "Z" = 5.00

182-B Casting

		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M	MOUNT NO.	CL	M
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M182522B	4.50	5.25	M182582B	5.06	5.81	M182602B	5.25	6.00
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M182522C	4.50	5.25	M182582C	5.06	5.81	M182602C	5.25	6.00
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	M18252100M	4.50	5.25	M18258100M	5.06	5.81	M18260100M	5.25	6.00
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	M18252125M	4.50	5.25	M18258125M	5.06	5.81	M18260125M	5.25	6.00

PUMP FLANGE PUMP END DATA 5.25 LENGTH 5.81 LENGTH 6.00 LENGTH

Horizontal Pump/Motor Mounts

MOTOR END DATA

AJ BF BD AK

RADIAL CLEARANCE "Z" = 5.00



		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M182682B	6.06	6.81	M182702B	6.25	7.00
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M182682C	6.06	6.81	M182702C	6.25	7.00
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	M18268100M	6.06	6.81	M18270100M	6.25	7.00
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	M18268125M	6.06	6.81	M18270125M	6.25	7.00

PUMP FLANGE

PUMP END DATA

6.81 LENGTH

7.00 LENGTH

TABLE 9 - NEMA Frames 284TC/TSC - 286TC/TSC, 284UC/286UC

MOTOR END DATA

AJ BF BD AK

RADIAL CLEARANCE "Z" = 6.40



		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M	MOUNT NO.	CL	M
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-63	M284682A	6.00	6.88	M284752A	6.62	7.50	M284862A	7.81	8.69
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M284682B	6.00	6.88	M284752B	6.62	7.50	M284862B	7.81	8.69
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M284682C	6.00	6.88	M284752C	6.62	7.50	M284862C	7.81	8.69
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	M2846880M	6.00	6.88	M2847580M	6.62	7.50	M2848680M	7.81	8.69
80 S4	4 Bolt	80.01mm			100mm	5/16-18	M2846880MS	6.00	6.88	M2847580MS	6.62	7.50	M2848680MS	7.81	8.69
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	M28468100M	6.00	6.88	M28475100M	6.62	7.50	M28486100M	7.81	8.69
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	M28468125M	6.00	6.88	M28475125M	6.62	7.50	M28486125M	7.81	8.69

PUMP FLANGE

PUMP END DATA

6.88 LENGTH

7.50 LENGTH

8.69 LENGTH



TABLE 10 - NEMA Frames 324TC/TSC - 405TC/TSC, 324UC/USC - 405UC/USC

MOTOR END DATA

AJ BF BD AK

RADIAL CLEARANCE "Z" = 7.74



		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M324762B	6.75	7.62	M324872B	7.88	8.75
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M324762C	6.75	7.62	M324872C	7.88	8.75
SAE D	2(4) Bolt	6.001	9.00	3/4-10	9.00	3/4-10	M324762D	6.75	7.62	M324872D	7.88	8.75
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	M32476100M	6.75	7.62	M32487100M	7.88	8.75
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	M32476125M	6.75	7.62	M32487125M	7.88	8.75
160 A2/B4	2(4) Bolt	160.01mm	224mm	3/4-10	200mm	5/8-11	M32476160M	6.75	7.62	M32487160M	7.88	8.75
180 B4	4 Bolt	180.01mm			224mm	5/8-11	M32476180M	6.75	7.62	M32487180M	7.88	8.75

PUMP FLANGE

PUMP END DATA

7.62 LENGTH

8.75 LENGTH



TABLE 11 - NEMA Frames 444TC/TSC - 449TC/TSC, 444UC/USC - 445UC/USC

MOTOR END DATA

AJ BF BD AK

RADIAL CLEARANCE "Z" = 10.75



		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M444882C	7.12	8.88
SAE D	2(4) Bolt	6.001	9.00	3/4-10	9.00	3/4-10	M444882D	7.12	8.88
SAE E	2 Bolt	6.501	12.50	1-8			M444882E	7.12	8.88

PUMP FLANGE

PUMP END DATA

8.88 LENGTH

