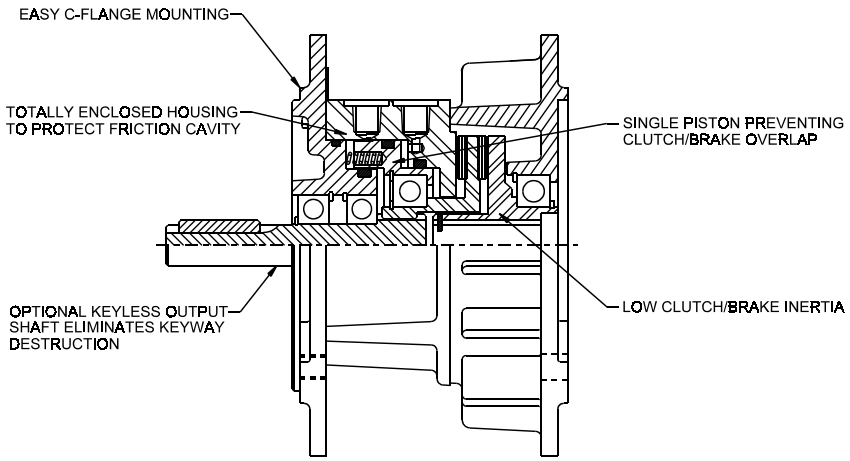
ECB TOTALLY ENCLOSED CLUTCH AND CLUTCH/BRAKE



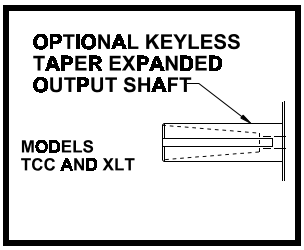
ECB PNEUMATIC CLUTCH & BRAKE COMBINATION

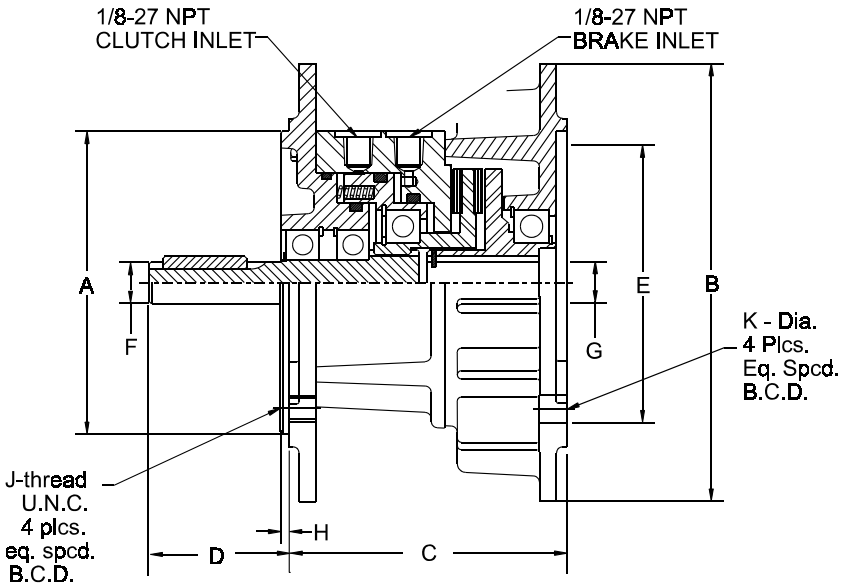
- Totally enclosed housing
- Protection against outside contaminants
- Used in washdown applications
- C-Flange Mounted
- Single piston prevents clutch/brake overlap
- Low inertia clutch/brake rotor
- Fast cycle times
- Accurate starting/stopping
- Hardened steel spline connections
- High temperature sealing materials
- Patented keyless output shaft
- Elimination of keyway destruction
- Bearing mounted Input shaft assembly and foot mount available

THE CARLSON CO. INC. USA
Fax: (316) 744-2144 ● Phone: (316) 744-0481
www.carlsoncompany.com

ECB clutch/brakes use o-rings as dynamic seals. Therefore adequate lubrication must be provided in the air actuating circuit to ensure the O-rings do not run dry

ECB CLUTCH/BRAKE





MODEL	A	B	C	D	E	F	G	H	J	K	BCD	
ECB 625-XL ECB 625-XLT	4.499	6.5	3.875	2.063	4.501	.624 .625	.626 .627	.120	.375-16	.406	5.875	MAXIMUM RPM ALL UNITS 1800
ECB 875-XL ECB 875-XLT	4.499	6.5	4.25	2.125	5.501	.874 .875	.876 .877	.120	.375-16	.406	5.875	
ECB1125-CC ECB1125-TCC	8.498	9	6	2.875	8.502	1.124 1.125	1.126 1.127	.25	.5-13	.531	7.250	

MODEL	TORQUE	STATIC	DYNAMIC	HEAT DISSIPATION	OUTPUT* SHAFT	HEAT CAPACITY	WK² OF CYCLING PART	KEY	WEIGHT	FRAME SIZE
ECB 625-XL ECB 625-XLT	CLUTCH @ 80PSI BRAKE @ 80PSI	160 IN-LB	144 IN-LB	.12 HP	75#	12000 FT-LB	.70 IN²LB	.188	15#	56C
ECB 875-XL ECB 875-XLT	CLUTCH @ 80PSI BRAKE @ 80PSI	270 IN-LB	243 IN-LB	.15 HP	140#	18000 FT-LB	1.90 IN²LB	.188	20#	143TC/145TC
ECB 1125-CC ECB 1125-TCC	CLUTCH @ 80PSI BRAKE @ 80PSI	450 IN-LB	400 IN-LB	.3 HP	275#	25000 FT-LB	7.90 IN²LB	.25	49#	182TC/184TC

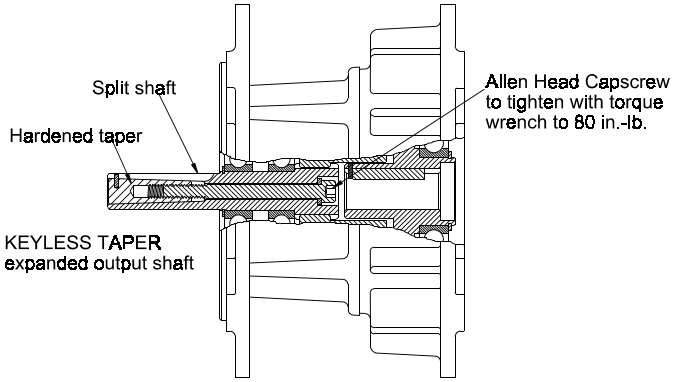
*Based on 10,000 hours bearing life with load 1" from bearing face

The initial torque on new units may be up to 40% less than torque values shown in the above chart until the friction lining is worn in.

ECB REPAIR KITS			
MODEL	PART NUMBER	MODEL	PART NUMBER
ECB625-XL ECB625-XLT ECB875-XL	5505K 5505K 5509K	ECB875-XLT ECB1125-CC ECB1125-TCC	5509K 4115K 4115K

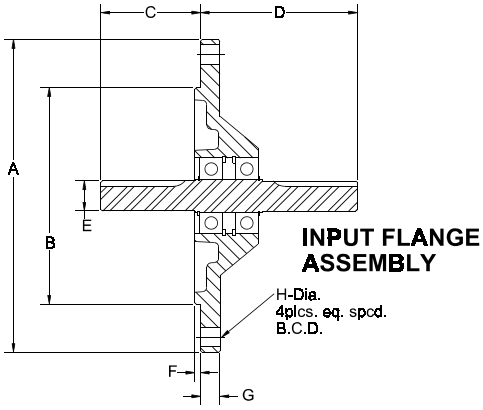
ECB clutch/brakes use o-rings as dynamic seals. Therefore adequate lubrication must be provided in the air actuating circuit to ensure the 0-rings do not run dry

ECB CLUTCH/BRAKE OPTIONS



ECB-TCC and XLT allows the optimum method of transmitting torque using complete 360 degree contact between the output shaft of the clutch/brake and the reducer shaft. All clearance is eliminated resulting in a connection having over three square inches contact area.

The ECB-TCC/XLT withstands constant start-stop action and completely eliminates key or keyway destruction because of it's keyless taper.



INPUT FLANGE ASSEMBLY

INPUT FLANGE

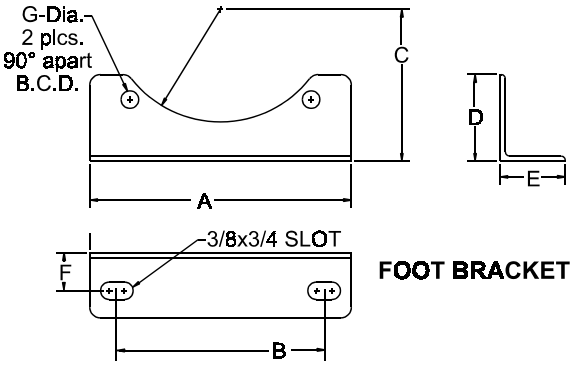
An optional Input Flange is available and mounts to the input of the ECB. It includes a bearing mounted, load carrying, input shaft and allows the clutch/brake to C-face to the reducer.

PART#	MODEL	A	B	C	D	E	F	G	H	BCD	WEIGHT
3971	ECB 625	6.5	4.499	2.063	3.25	.624	.120	.406	.406	5.875	5#
3982	ECB 875	6.5	4.499	2.125	3.688	.874	.120	.406	.406	5.875	6#
5004	ECB 1125	9	8.496	2.875	4.5	1.124	.250	.730	.531	7.250	16.5#

FOOT BRACKET

The foot brackets can be used with the ECB clutch/brake and adapter flange to form a foot mounted unit with bearing mounted load carrying input and output shafts.

PART#	MODEL	A	B	C	D	E	F	G	BCD
2815	625 or 875	6	4.75	3.5	2	1.5	.875	.406	5.875
4052	1125	6	6	5.25	3	2	1.25	.531	7.250

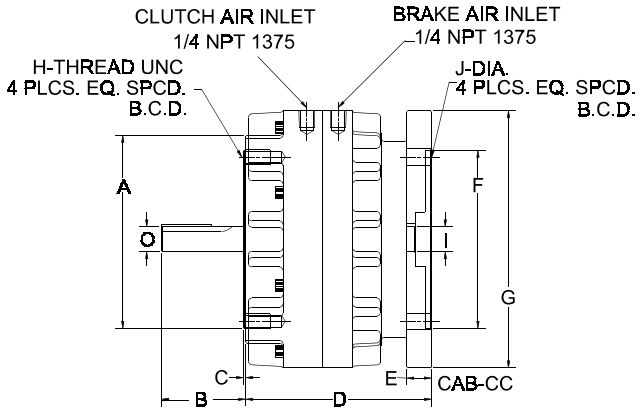


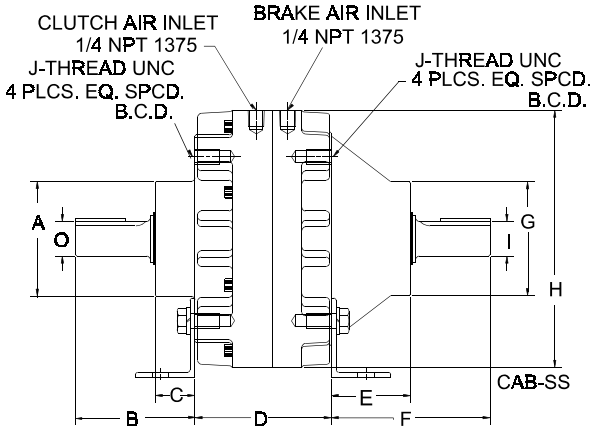
FOOT BRACKET

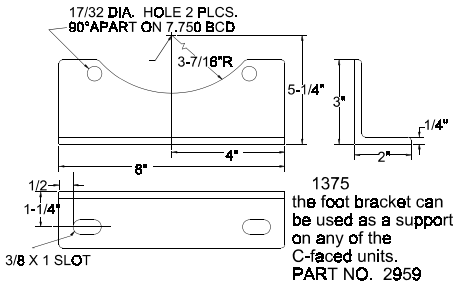
THE CARLSON CO. INC. USA
Fax: (316) 744-2144 ● Phone: (316) 744-0481
www.carlsoncompany.com

ECB clutch/brakes use o-rings as dynamic seals. Therefore adequate lubrication must be provided in the air actuating circuit to ensure the O-rings do not run dry

MODEL CAB-CC and CAB-SS CLUTCH/BRAKE







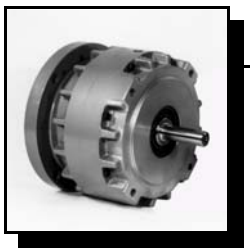
DIMENSIONS SHOWN ARE FOR GENERAL INFORMATION ONLY
CERTIFIED PRINTS WILL BE FURNISHED UPON REQUEST FOR DESIGN AND INSTALLATION PURPOSES.

MODEL	TORQUE** (IN-LB)	STATIC	DYNAMIC	HEAT DISSIPATION	HEAT CAPACITY	WK^2 OF CYCLING PARTS	MAXIMUM RPM ALL UNITS 1800
1375 AIR CLUTCH/AIR BRAKE	CLUTCH@80psi BRAKE@80psi	960 1400	800 1180	.44HP (50%CLUTCH 50% BRAKE)	60,000 FT-LB	16 IN^2-LB	

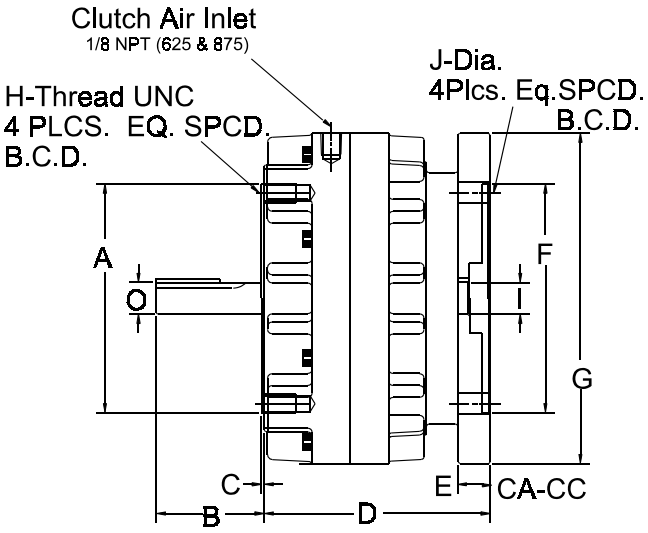
STANDARD ASSEMBLIES	A	B	C	D	E	F	G	H	J	BCD	I (INCHES)	O (INCHES)	INPUT SHAFT OHL*	OUTPUT SHAFT OHL*	NEMA FRAMES
1375CAB-CC	8.498	3.125	1/4	6.000	½	8.502	9.000	½-13	17/32	7.250	1.376	1.376	0	0	213TC/215TC
1375 CAB-SS	4	4 3/4	1 5/8	4 3/4	2 11/16	5 13/16	4 1/4	9.000	½-13	7.750	1.375	1.375	275#	275#	NA

*Based on 10,000 hours bearing life with load 1 inch from face of bearing.
**The initial torque on new units may be up to 40% less than torque values shown until the friction lining is worn in.

CAB REPAIR KITS	
MODEL	PART NUMBER
1375 CAB-CC 1375 CAB-SS	2961K 2966K



MODEL CA-CC CLUTCH



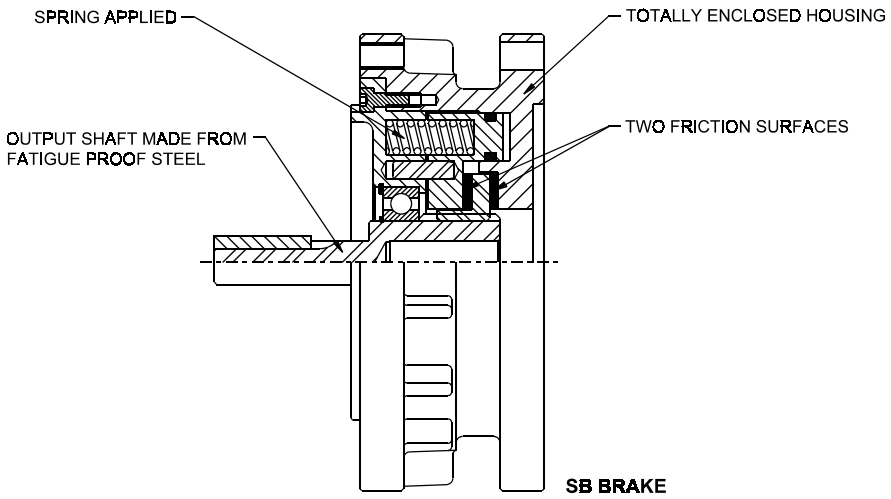
Dimensions shown are for general information only.
Certified prints will be furnished upon request for design and installation purposes.

MODEL	TORQUE** (IN-LB)	STATIC	DYNAMIC	HEAT DISSIPATION	HEAT CAPACITY	WK^2 OF CYCLING PARTS	MAXIMUM RPM ALL UNITS 1800	REPAIR KIT
625 & 875 AIR CLUTCH	@ 80 PSI	375	300	.09 HP	20,000 FT-LB	1.1 IN^2-LB		2869K(A)

STANDARD ASSEMBLIES	A	B	C	D	E	F	G	H	J	I (inches)	O (inches)	B.C.D.	INPUT SHAFT OHL*	OUTPUT SHAFT OHL*	NEMA FRAMES
625CA-CC	4.499	2 1/16	1/8	3 7/8	5/8	4.501	6 ½	3/8-16	13/32	.626	.625	5.875	0	0	48Y/56C
875CA-CC	4.499	2 1/8	1/8	3 7/8	5/8	4.501	6 ½	3/8-16	13/32	.876	.875	5.875	0	0	143TC/145TC

*Based on 10,000 hours bearing life with load 1 inch from bearing face.
**The initial torque on some units may be up to 40% less than torque values shown until the friction lining is worn in.

TOTALLY ENCLOSED SPRING SET MOTOR BRAKE

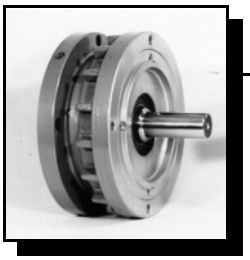


- **Spring Applied / Air Release**
- **High Static Torque Design**
- **Totally Enclosed Housing**
- **Protection Against Outside Contaminants**
- **Used in Washdown Applications**
- **C-Flange Mounted**

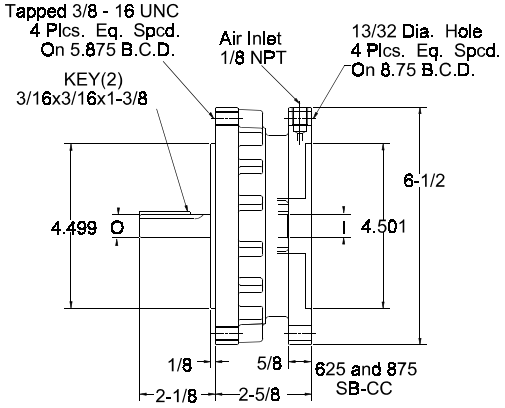
ENCLOSED SPRING APPLIED C-FACE BRAKE - features two friction surfaces to give high torque, better heat dissipation and longer service life. The brakes fit 56C, 143TC,145TC,184TC, 215TC and 245TC frame motors and reducers and are available in double C-face or C-face to the motor with a bearing mounted output shaft.

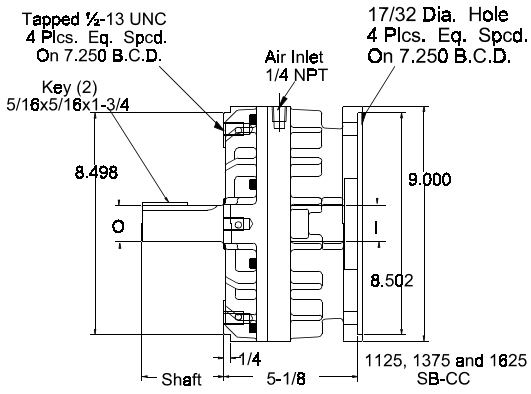
.

ALL C-FACE PRODUCTS USE O-RINGS AS DYNAMIC SEALS, THEREFORE,
ADEQUATE LUBRICATION MUST BE PROVIDED IN THE ACTUATING AIR CIRCUIT
TO ENSURE THESE O-RINGS DO NOT RUN DRY.



SPRING APPLIED/AIR RELEASE BRAKE





Dimensions shown are for general purposes only.
Certified prints will be furnished upon request for design and installation purposes.

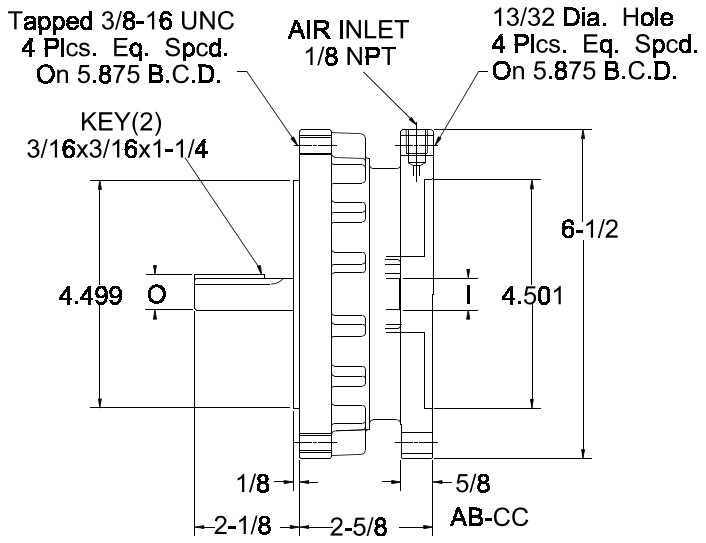
MODEL	WK² OF ROTATING PARTS	TORQUE** (IN-LBF)	STATIC	DYNAMIC	
625 AND 875 SPRING BRAKE	.44 IN²-LBF	BRAKE @ O psi FULL LINING	300	250	MAXIMUM RPM 1800
1125, 1375 SPRING BRAKE	11.2 IN²-LBF		1200	1000	
1625 SPRING BRAKE	11.2 IN²-LBF		1500	1250	

STANDARD ASSEMBLIES	I (INCHES)	O (INCHES)	SHAFT	OUTPUT SHAFT OHL*	NEMA FRAMES	HEAT DISSIPATION	HEAT CAPACITY	WEIGHT
625SB-CC 875SB-CC	.626 .876	.625 .875	2.125 2.125	0 0	48Y/56C 143TC/145TC	.12 HP	20,000 FT-LBF	14 LBS.
1125SB-CC 1375SB-CC 1625SB-CC	1.126 1.376 1.626	1.125 1.375 1.625	2.625 3.125 3.750	0 0 0	182TC/184TC 213TC/215TC 254TC	.30 HP	45,OOO FT-LBF	56 LBS.

*Based on 10,000 hours bearing life with load 1 inch from bearing face.
**The initial torque on new units may be up to 40% less than torque values shown until the friction lining is worn in.

SB-CC REPAIR KITS			
MODEL	PART NUMBER	MODEL	PART NUMBER
625 SB-CC 875 SB-CC 1125 SB-CC	2841K 2841K 4917K	1375 SB-CC 1625 SB-CC	3992K

AIR APPLIED/SPRING RELEASED BRAKE



Dimensions shown are for general purposes only.
Certified prints will be furnished upon request for design and installation purposes.

AB BRAKE

MODEL	WK^2 OF ROTATING PARTS	TORQUE** (IN-LBF)	STATIC	DYNAMIC	MAXIMUM RPM
625	.44 IN^2-LBF	BRAKE @ 80 psi FULL LINING	500	425	1800

STANDARD ASSEMBLIES	I (INCHES)	O (INCHES)	SHAFT	OUTPUT SHAFT OHL*	NEMA FRAMES	HEAT DISSIPATION	HEAT CAPACITY	WEIGHT
625AB-CC	.626	.625	2.125	0	48Y/56C	.12 HP	20,000 FT-LBF	14 LBS.

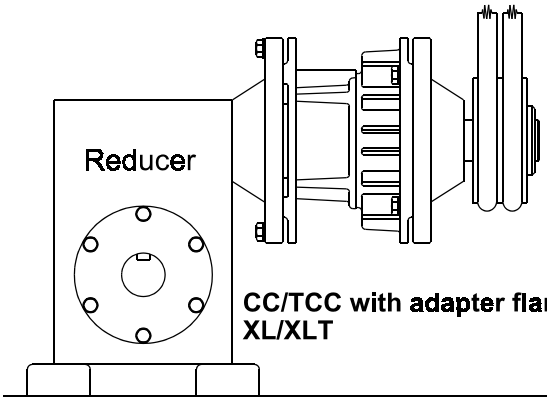
*Based on 10,000 hours bearing life with load 1 inch from bearing face.

**The initial torque on new units may be up to 40% less than torque values shown until the friction lining is worn in.

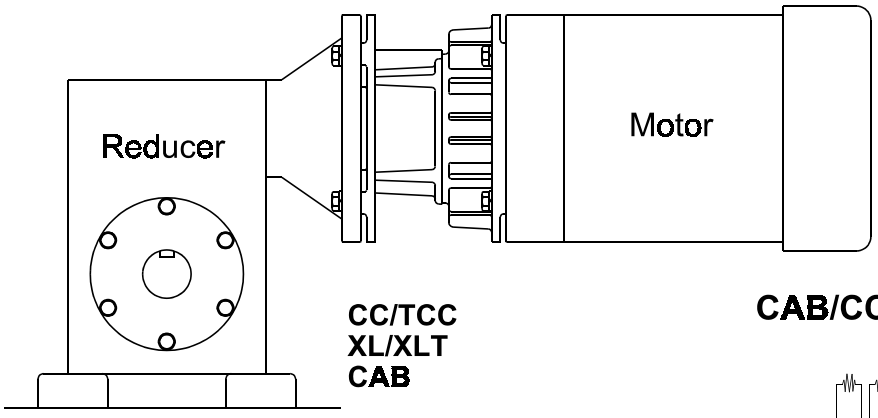
AB REPAIR KIT	
MODEL	PART NUMBER
625 AB-CC	4301K

THE CARLSON CO. INC. USA
Fax: (316) 744-2144 ● Phone: (316) 744-0481
www.carlsoncompany.com

TYPICAL APPLICATIONS

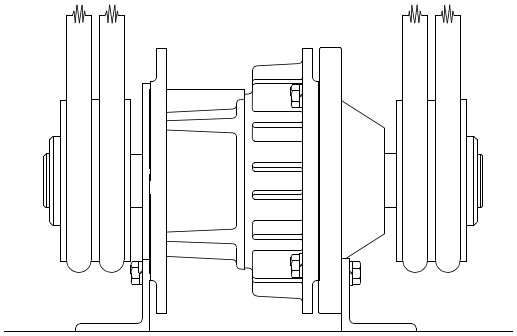


CC/TCC with adapter flange
XL/XLT



CC/TCC
XL/XLT
CAB

CAB/CC/XL with adapter flange and foot bracket



CC/XL