



KEL-TECH

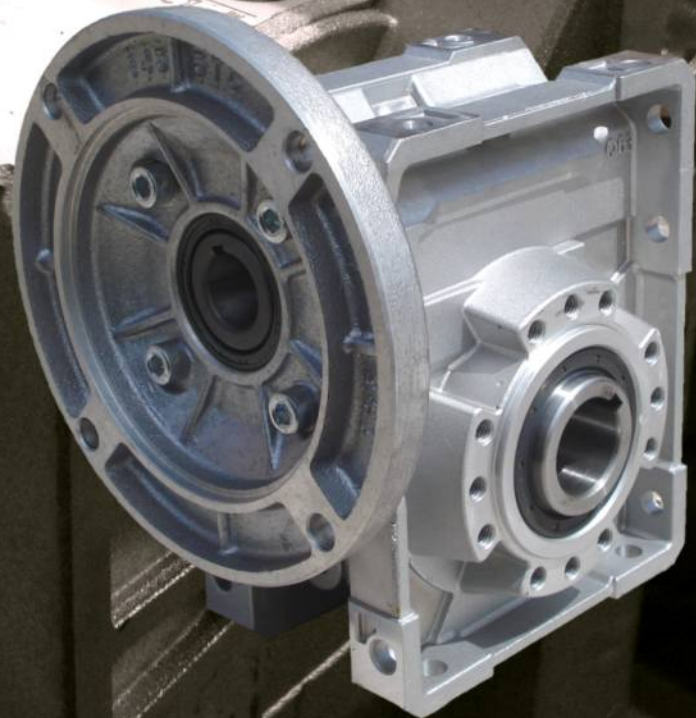
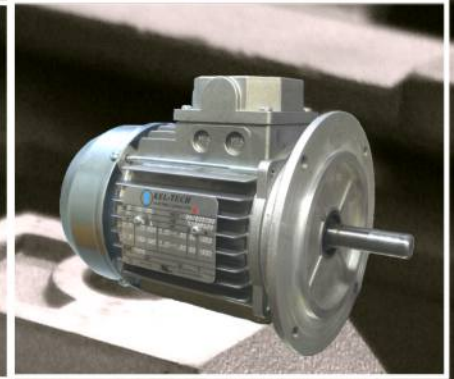
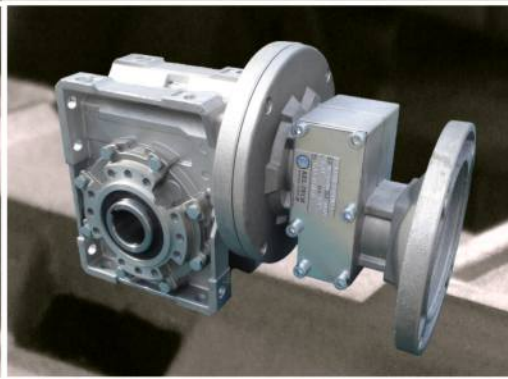
ELECTRIC CANADA LTD 

Square Aluminum *Reducers & Motor* *Catalogue*

Aluminum Worm gear boxes

Rolled Steel Motors
1/4 - 2 HP

Aluminum Motors
1/4 - 1 HP



INCH - Dimensions



Worm gear boxes type K45A - K85A

A modular and compact product

Single-piece aluminum alloy housing

is vacuum impregnated (MIL-STD 276) for protection and sealing. No secondary finish required but readily accepts paint. Combines light weight with high tensile strength. Precision machined for alignment of bearings and gearing.

Single piece alloy steel input shaft and worm shaft.

High helix angle worm is case-hardened (Rc 58-60), ground, teeth are profiled and radiused, for noise reduction and enhanced efficiency.

Oversized bearings

support positively-retained, high speed shaft for higher shock load capacity - ideal for frequent starting and reversing application. Premium, Nitrile® high temperature seals each end.

Flange

Standard NEMA C flange for easy motor mounting.

Premium, high temperature

Nitrile® output seals

Bronze alloy worm gears.

Is centrifugally cast onto an iron hub for maximum strength and superior life.

Oversize bearing

for radial load capability and maximum hollow output shaft diameter.

Standard hollow output shaft mounting

Reduces total drive envelope size, weight and cost. Single and double solid output shaft is available.

Impregnated and machined bearing caps

with exterior machined surfaces enable a variety of mounting accessories. Extra-deep thread engagement provided for greater support strength. Zinc plated hardware.

Vent Free Design.

No breather or vents to leak! Factory lubricated for life with synthetic, semi-fluid gear lubricant with an operating range of -15°C to 130°C.

oil free



vent free

INDEX



Types



On page

5	7	9	11
K45R 345 in lbs	K50R 611 in lbs	K63R 1240 in lbs	K85R 2921 in lbs

HOW TO ORDER



Type	Size	Ratio	Hub	Output shaft	Motor size
K	45A	10	U	O	W
 K	K45A K50A K63A K85A	See technical data table	 U INCH K45A ⇨ ø0.750" K50A ⇨ ø1.000" K63A ⇨ ø1.250" K85A ⇨ ø1.500"	 Ø S	 NEMA With Flange for type P W ⇨ 56C X ⇨ 143/5TC Y ⇨ 182/4TC
 M					

K45A ALUMINUM WORM GEARBOXES 0.75" Hollow Output Shaft



QUICK SELECTION - Input RPM 1750

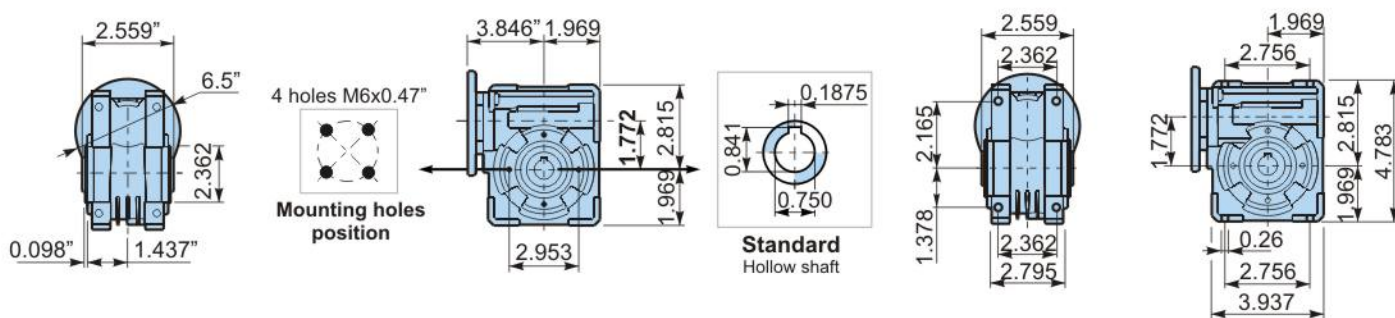
* Available motor flanges



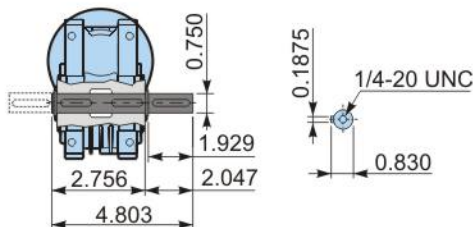
Type	Output Speed (RPM)	Ratio	Input HP	Output Torque [In.Lbs]	Service factor	Available NEMA motor flanges			Type
						W	X	Y	
						56C	143/5TC	182/4TC	
K45A	250.0	7	1	202	2.1	*			K45A
	175.0	10	0.75	213	1.5	*			
	125.0	14	0.75	291	1.1	*			
	83.3	21	0.5	253	1.1	*			
	62.5	28	0.5	328	1.3	*			
	47.3	37	0.33	277	1.0	*			
	38.0	46	0.33	323	0.8	*			
	29.2	60	0.33	399	0.9	*			
	25.0	70	0.25	340	0.8	*			
	17.2	102	0.25*	450	<0.8	*			

* Power higher than the maximum one which can be supported by the gearbox. Select according to the torque.

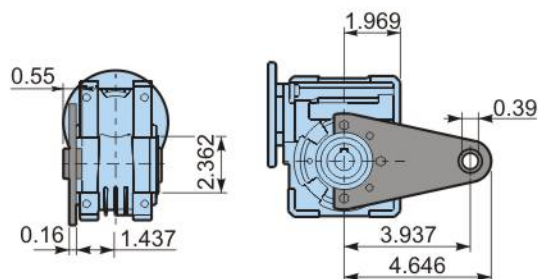
Standard hollow shaft dimensions



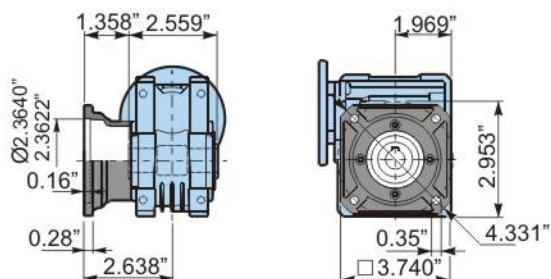
Optional Output Shaft Left or Right Angled



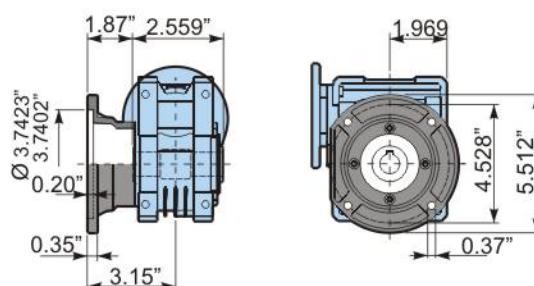
Optional Torque arm



Square Output flange



Round Output flange



Other output flange sizes available upon request see page 12

Wormbox weight	lb.
K45A	5.07



*

Double and Triple reduction configurations available upon request

*





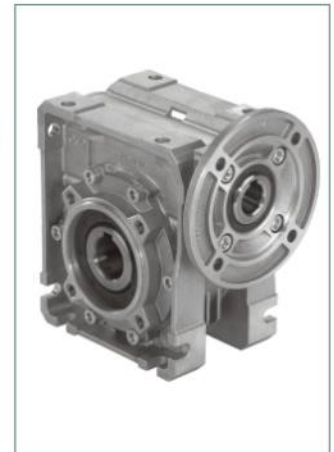
ALUMINUM WORM GEARBOXES 1.00" Hollow Output Shaft

K50A

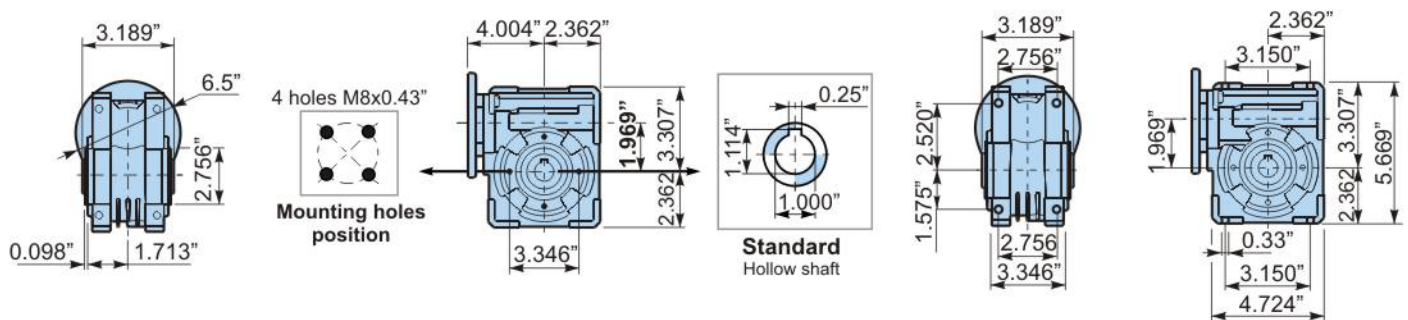
QUICK SELECTION - Input RPM 1750

* Available motor flanges

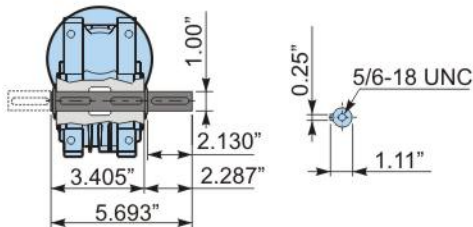
Type	Output Speed (RPM)	Ratio	Input HP	Output Torque [In.Lbs]	Service factor	Available NEMA motor flanges			Type
						W	X	Y	
						56C	143/5TC	182/4TC	
K50A	250.0	7	2	413	1.2	*			K50A
	175.0	10	1.5	432	1.2	*			
	125.0	14	1	398	1.4	*			
	97.2	18	1	486	1.1	*			
	67.3	26	0.75	485	1.2	*			
	48.6	36	0.5	447	1.4	*			
	40.7	43	0.5	511	1.1	*			
	29.2	60	0.33	414	1.3	*			
	25.7	68	0.33	461	1.1	*			
	21.9	80	0.25	389	1.2	*			
	17.5	100	0.25	450	1.0	*			



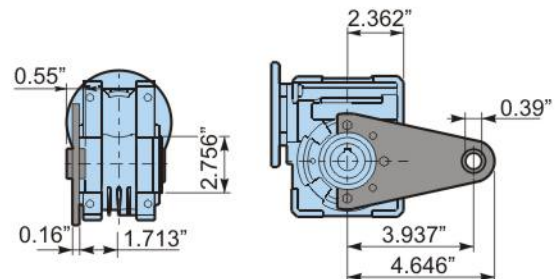
Standard hollow shaft dimensions



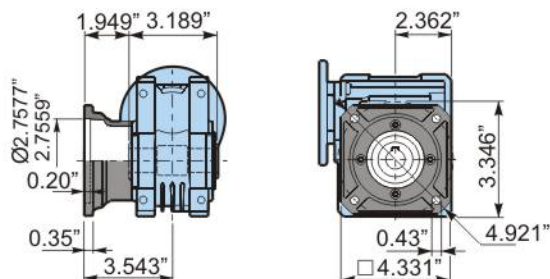
Optional Output Shaft Left or Right Angled



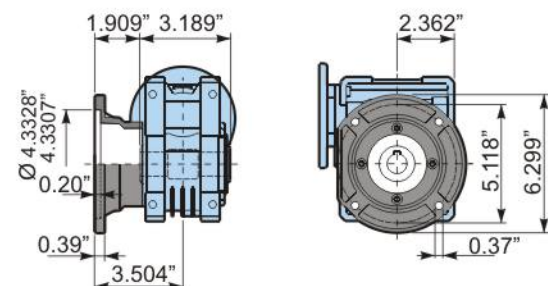
Optional Torque arm



Square Output flange



Round Output flange



Other output flange sizes available upon request see page 12

Wormbox weight	lb.
K50A	7.165



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Double and Triple reduction configurations available upon request

*



K63A ALUMINUM WORM GEARBOXES 1.25" Hollow Output Shaft



QUICK SELECTION - Input RPM 1750

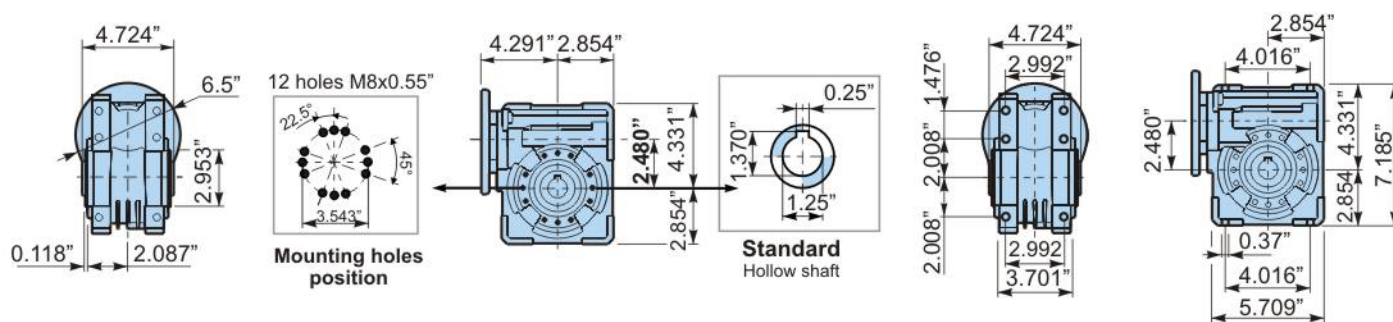
* Available motor flanges



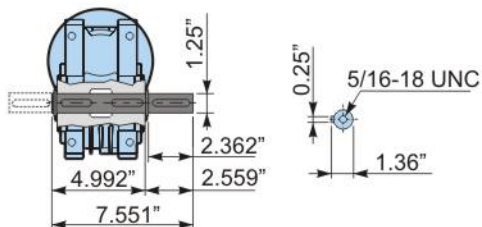
Type	Output Speed (RPM)	Ratio	Input HP	Output Torque [In.Lbs]	Service factor	Available NEMA motor flanges			Type
						W	X	Y	
						56C	143/5TC	182/4TC	
K63A	250.0	7	3	628	1.7		*		K63A
	175.0	10	3	875	1.3		*		
	116.7	15	2	854	1.4		*		
	92.1	19	2	1068	1.1		*		
	72.9	24	1.5	972	1.2		*		
	58.3	30	1.5	1199	1.0		*		
	48.6	36	1	882	1.4		*		
	38.9	45	1	1070	1.1		*		
	26.1	67	0.5	724	1.4		*		
	21.9	80	0.5	821	1.2		*		
	18.6	94	0.5	880	1.1		*		

Supplied with Reduction Bushing

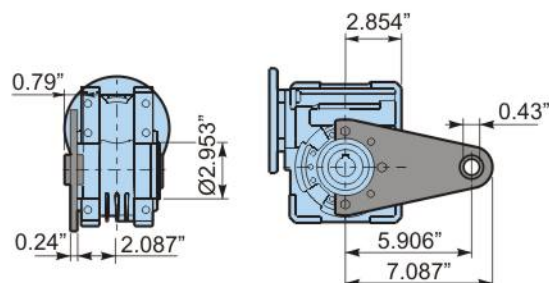
Standard hollow shaft dimensions



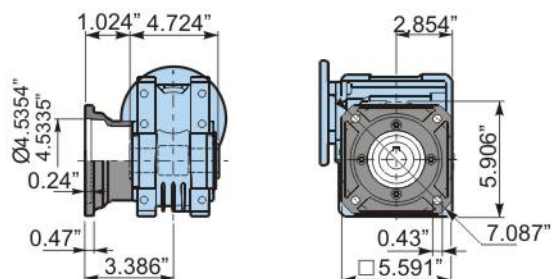
Optional Output Shaft Left or Right Angled



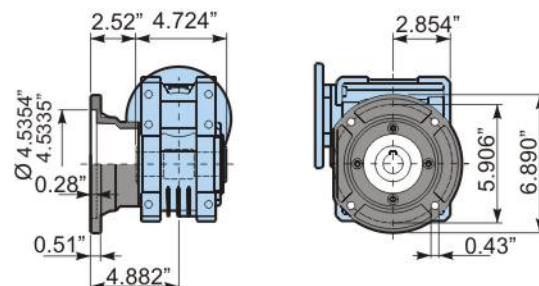
Optional Torque arm



Square Output flange



Round Output flange



Other output flange sizes available upon request see page 12

Wormbox weight	lb.
K63A	13.23



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Double and Triple reduction configurations available upon request

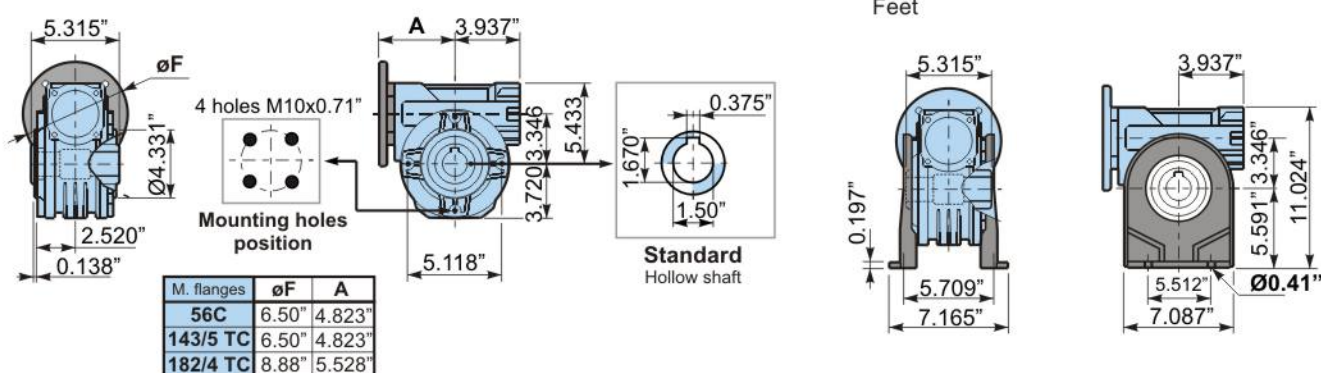
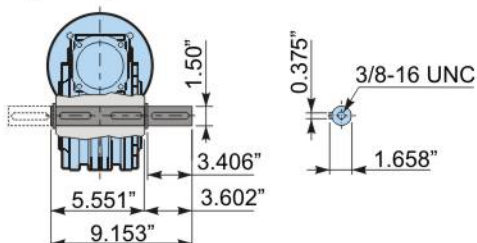
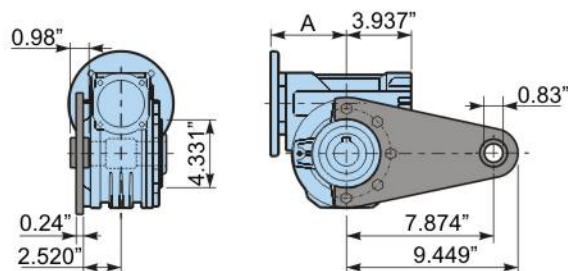
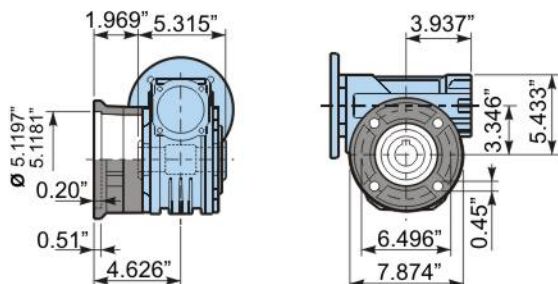
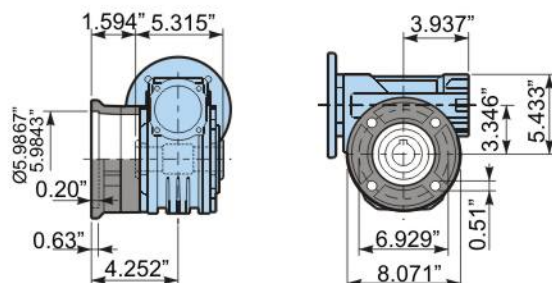
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**QUICK SELECTION - Input RPM 1750***** Available motor flanges**

Type	Output Speed (RPM)	Ratio	Input HP	Output Torque [In.Lbs]	Service factor	Available NEMA motor flanges			Type
						W	X	Y	
						56C	143/5TC	182/4TC	
K85A	250.0	7	7.5	1664	1.3		*	*	K85A
	175.0	10	5	1441	1.7		*	*	
	125.0	14	5	1967	1.3		*	*	
	87.5	20	3	1707	1.5		*	*	
	62.5	28	3	2269	1.3		*	*	
	46.1	38	2	1943	1.5		*	*	
	33.7	52	1.5	1854	1.3		*	*	
	26.1	67	1.5	2353	1.0		*	*	
	18.2	96	1	1833	1.1		*	*	

Supplied with Reduction Bushing * Flange available upon request

**Standard hollow shaft dimensions****Optional Output Shaft
Left or Right Angled****Optional Torque arm****Output flange****Output flange**

Other output flange sizes available upon request see page 12

Wormbox weight	lb.
K85A	24.25



*

Double and Triple reduction configurations available upon request

*





GENERAL PURPOSE ALUMINUM MOTORS

Three Phase 208-230/460 & 575V, NEMA Design B, High Efficiency, TEFC, Class F Insulation, 40°C Ambient, Continuous Duty, 1.15 Service Factor.



- Light Weight Aluminum Construction.
- **CSA , CE and UL. Certified**
- True Inverter Duty Wire Standard
4:1 Constant Torque
10:1 Variable Torque
- Fin Body design for cooler running temperatures.
- **Paint Free**
- Oversized Conduit Box complete with strain relief connector.
- Different Conduit Box options available upon request.

Three Phase

HP	RPM	Nema Frame	Model Number	
			208-230/460V	575V
1/4	1800	56C	AL1444C	AL1445C
1/3	1800	56C	AL1344C	AL1345C
1/2	1800	56C	AL1244C	AL1245C
3/4	1800	56C	AL3444C	AL3445C
1	1800	56C	AL0144C	AL0145C

Double Lip
Contact
Seals



Light Weight
Fin Body
Design for
Cooler Running
Temperatures



Oversized
Conduit Box
Complete with
Strain relief
Connector





SQUARE ALUMINUM REDUCERS LIST PRICING



SIZE	BORE SIZE	INPUT FLANGE	
K45A	0.75"	56C	
K50A	1.00"	56C	
K63A	1.25"	143/5TC	
K85A	1.50"	182/4TC	



ALUMINUM ACCESSORIES



SIZE	OUTPUT SHAFT KIT	TORQUE ARM	OUTPUT FLANGE	OUTPUT COVER
K45A				
K50A				
K63A				
K85A				

Please refer to page 12 for further options



GENERAL PURPOSE ROLLED STEEL MOTORS

Three Phase 208-230/460 & 575V, NEMA Design B, High Efficiency, Squirrel Cage, TEFC, Class F Insulation, 40°C Ambient, Continuous Duty, 1.15 Service Factor.



- Easy Clean Smooth Body Motors
- CSA and UL. Certified
- High Efficiency motors - meets or Exceeds 92 EPACT
- Double Lip Contact Seals
- Oversized Bearings on both ends c/w Locked Drive-end
- Oversized Conduit Box c/w Lead Seal
- Triple Drilled Base for Frame Flexibility
- Epoxy Base Paint

HP	RPM	Nema Frame	Model Number	
			208-230/460V	575V
1/4	1800	56C	RS1444C	RS1445C
1/3	1800	56C	RS1344C	RS1345C
1/2	1800	56C	RS1244C	RS1245C
3/4	1800	56C	RS3444C	RS3445C
1	1800	56C	RS0144C	RS0145C
1.5	1800	56C	RS3244C	RS3245C
1.5	1800	145TC	RS3244CT	RS3245CT
2	1800	56C	RS0244C	RS0245C
2	1800	145TC	RS0244CT	RS0245CT

ALL MODEL NUMBERS GIVEN ARE ROUND BODY MOTORS. FOR C-FLANGE MOTORS COMPLETE WITH BASE, ADD "F" AFTER THE MODEL NUMBER.



Double lip contact seals



Easy to read name plates



Internally Locked Drive-End Bearing Construction



Oversized Conduit Box for easy connection



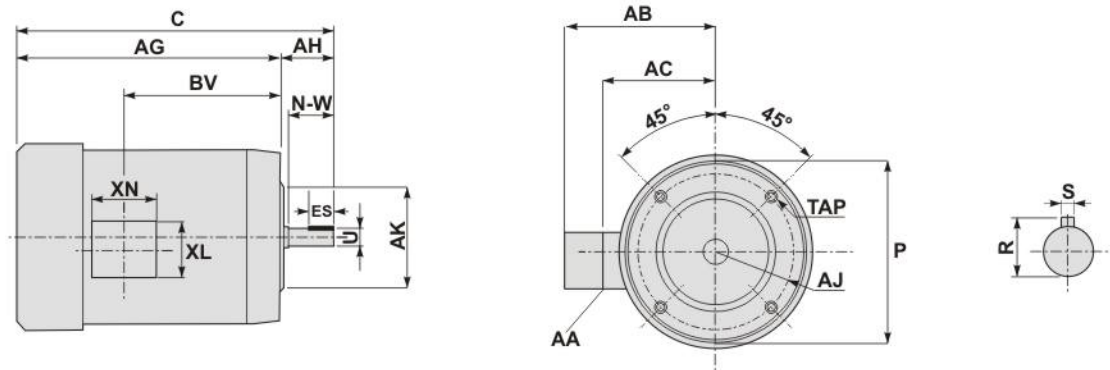
Conduit box Complete with lead seal



Double and Triple Drilled base for Easy Mounting



Rolled Steel Motor Dimensions



NEMA DIMENSIONS - TEFC - (TENV on request) - INCH

HP	RPM	FRAME	MOUNTING					CONDUIT BOX					SHAFT EXT		KEY SEAT		
			C	AG	AH	AJ	AK	AA	AB	AC	XL	XN	N-W	U	R	S	ES
1/4 -1/3-1/2	1800	56C	12.44	10.38	2.06	5.875	4.5	0.86	5.75	4.25	3.78	3.31	1.88	0.625	0.517	0.188	1.41
3/4	1800	56C	13.43	11.37	2.06	5.875	4.5	0.86	5.75	4.25	3.78	3.31	1.88	0.625	0.517	0.188	1.41
1	1800	56C	13.43	11.37	2.06	5.875	4.5	0.86	5.75	4.25	3.78	3.31	1.88	0.625	0.517	0.188	1.41
1	1800	143TC	13.49	11.37	2.12	5.875	4.5	0.86	5.75	4.25	3.78	3.31	2.25	0.875	0.771	0.188	1.41
1.5	1800	56C	13.43	11.37	2.06	5.875	4.5	0.86	5.75	4.25	3.78	3.31	1.88	0.625	0.517	0.188	1.41
1.5	1800	145TC	13.49	11.37	2.12	5.875	4.5	0.86	5.75	4.25	3.78	3.31	2.25	0.875	0.771	0.188	1.41
2	1800	56C	14.61	12.55	2.06	5.875	4.5	0.86	5.75	4.25	3.78	3.31	1.88	0.625	0.517	0.188	1.41
2	1800	145TC	14.67	12.55	2.12	5.875	4.5	0.86	5.75	4.25	3.78	3.31	2.25	0.875	0.771	0.188	1.41

ALUMINUM MOTOR DIMENSIONS

Coming Soon



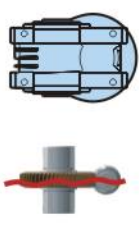
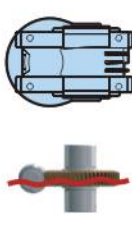
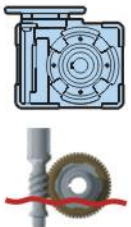
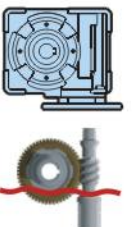
UNITS K45A TO K85A ARE SUPPLIED WITH SYNTHETIC OIL, PROVIDING “ LONG LIFE “ LUBRICATION FOR THE MOUNTING POSITIONS B8 - B3 - B6 - B7 (FOR V5 - V6 SPECIFY IN THE ORDER).

* Standard Kel-Tech Oil Type

		TEMPERATURE			DIN 51517-3 ISO 12925-1
		-122°F	+32°F	+176°F	
	Telium VSF 320 *	-22°F		+176°F	synthetic
					
	Omala HD320	-13°F		+122°F	synthetic
					
	Spartan Synthetic EP 320	-13°F		+122°F	synthetic
					
	Klubersynth EG 4-320	-13°F		+122°F	synthetic

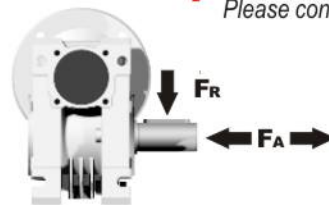
• Standard mounting positions

OIL QUANTITY FOR EVERY POSITION (OUNCES)

						
	B8	B3	B6	B7	V5	V6
K45A	2.82	2.82	2.82	2.82	▪	▪
K50A	4.58	4.58	4.58	4.58	▪	▪
K63A	10.6	10.6	10.6	10.6	▪	▪
K85A	42.33	42.33	42.33	42.33	▪	▪

Special Purpose Lubricants Available on request

▪ Please contact us for oil quantity



• Radial and axial loads

Output Speed (RPM)	K45A		K50A		K63A		K85A	
	F _A [lb.]	F _R [lb.]	F _A [lb.]	F _R [lb.]	F _A [lb.]	F _R [lb.]	F _A [lb.]	F _R [lb.]
200	40	202	54	270	81	404.5	112	562
150	45	225	63	315	90	450	130	652
100	49	247	67	337	103.5	517	135	674
75	54	270	76	382	112.5	562	157	787
50	58	315	85	427	135	674.5	180	899
25	67	405	108	562	157	854	225	1124
15	90	450	126	629	180	899	261	1304

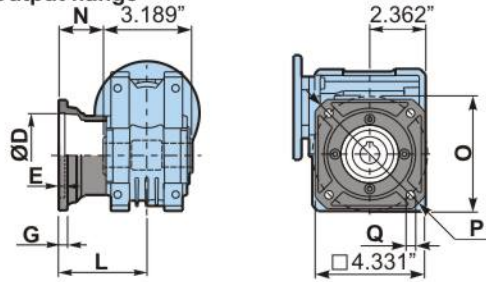


CUSTOM OUTPUT FLANGES AVAILABLE UPON REQUEST



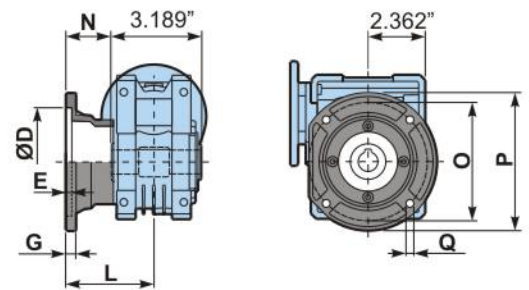
K50A

Square Output flange



	øD	E	G	L	N	O	P	Q	kit code
Standard	2.7577 2.7559	0.20	0.35	3.543	1.949	3.346	4.921	0.43	KA50.9.010
Optional	2.7577 2.7559	0.20	0.35	4.724	3.130	3.346	4.921	0.43	KA50.9.011

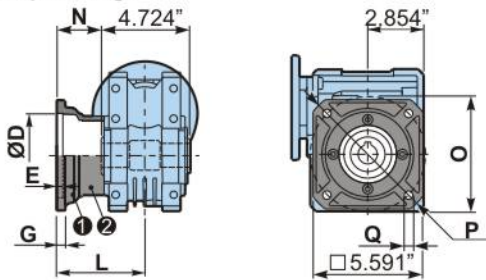
Round Output flange



	øD	E	G	L	N	O	P	Q	kit code
Standard	4.3328 4.3307	0.20	0.39	3.504	1.909	5.118	6.299	0.37	KSA50.9.012
Optional	3.7423 3.7402	0.20	0.57	2.835	1.240	4.528	5.512	0.43	KSA50.9.013

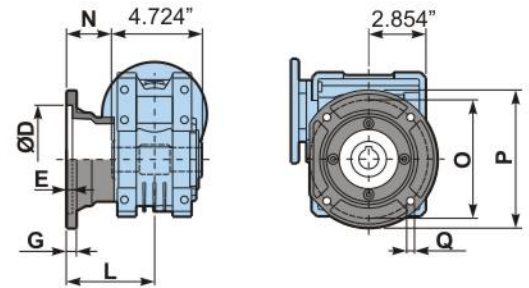
K63A

Square Output flange



	øD	E	G	L	N	O	P	Q	kit code
Standard	4.5354 4.5335	0.24	0.47	3.386	1.024	5.906	7.087	0.43	KA63.9.010
Optional	4.5354 4.5335	0.24	0.47	4.567	2.205	5.906	7.087	0.43	① KA63.9.010 ② KA63.0.200

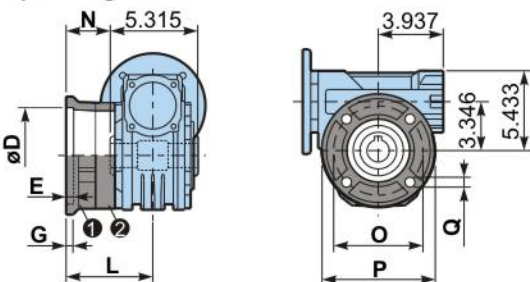
Round Output flange



	øD	E	G	L	N	O	P	Q	kit code
Optional	5.1260 5.1240	0.28	0.51	4.331	1.969	6.496	7.874	0.51	KSA70.9.013
Standard	4.5354 4.5335	0.28	0.51	4.882	2.520	5.906	6.890	0.43	KSA63.9.013
Optional	4.3321 4.3307	0.20	0.43	3.543	1.181	5.118	6.299	0.39	KSA63.9.011

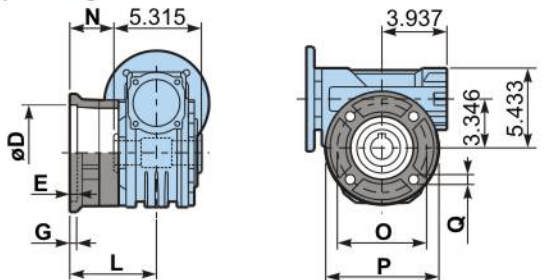
K85A

Round Output flange



	øD	E	G	L	N	O	P	Q	kit code
Optional	5.9867 5.9843	0.20	0.63	4.252	1.594	6.929	8.071	0.51	KA85.9.010
Optional	5.9867 5.9843	0.20	0.63	5.846	3.189	6.929	8.071	0.51	① KA85.9.010 ② KA85.0.201

Round Output flange



	øD	E	G	L	N	O	P	Q	kit code
Standard	5.1197 5.1181	0.20	0.51	4.626	1.969	6.496	7.874	0.45	KS085.9.012
Optional	5.9867 5.9843	0.35	0.59	5.807	3.150	7.087	8.071	0.49	KS085.9.013
Optional	5.1197 5.1181	0.20	0.51	4.193	1.535	6.496	7.874	0.51	KS085.9.015

Special Hollow Shafts Also Available upon request
Please contact our sales office



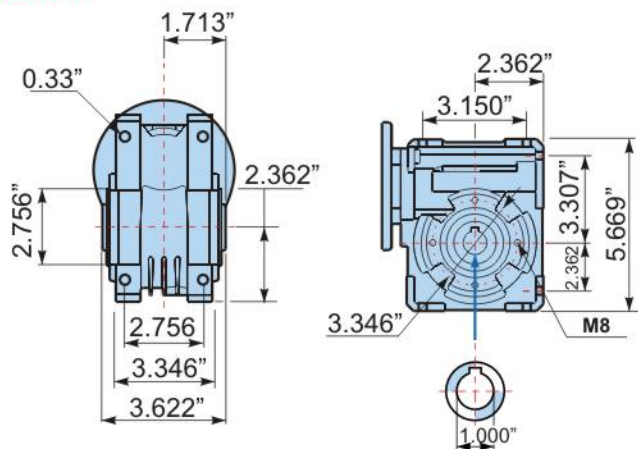
Double and Triple reduction configurations
available upon request



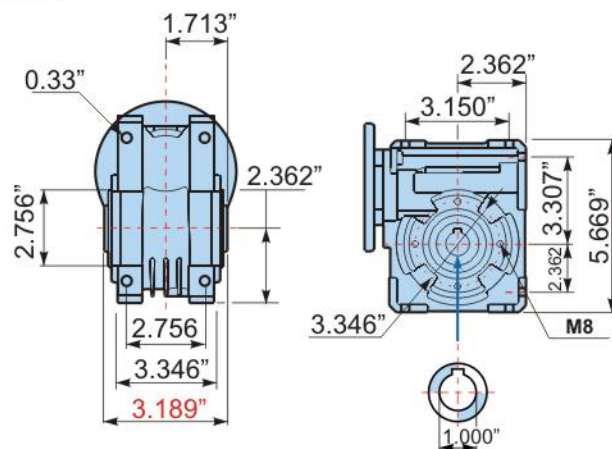


* Red Dimensions show differences

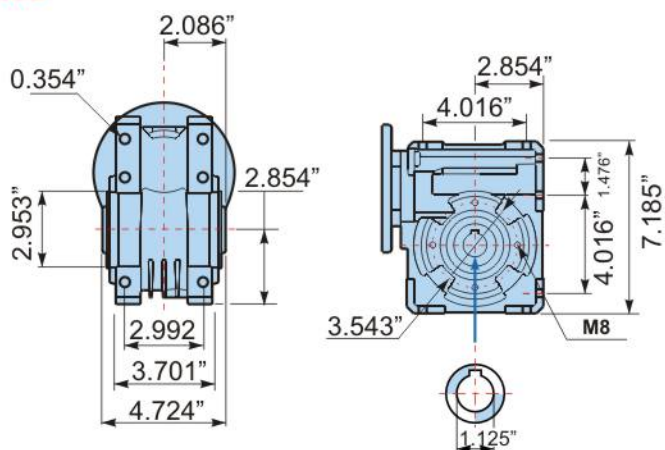
MOTOVARIO NMRV50



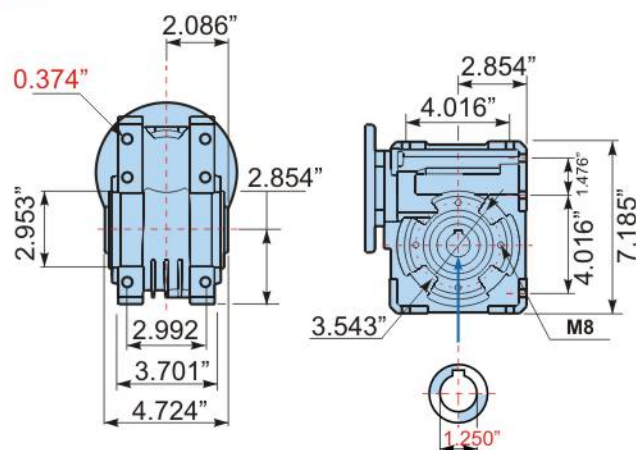
KEL-TECH K50A



BONFIGLIOLI W63U



KEL-TECH K63A



Kel-Tech / Hydromec Gearboxes are manufactured in Italy. Using state of the art technology both in design and production, to offer a competitive high-efficiency gearbox suitable for today's market needs.



PRODUCT IDENTIFICATION



Catalogue No. 1002
Effective: 5/1/10

Square Aluminum
Reducers & Motors
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