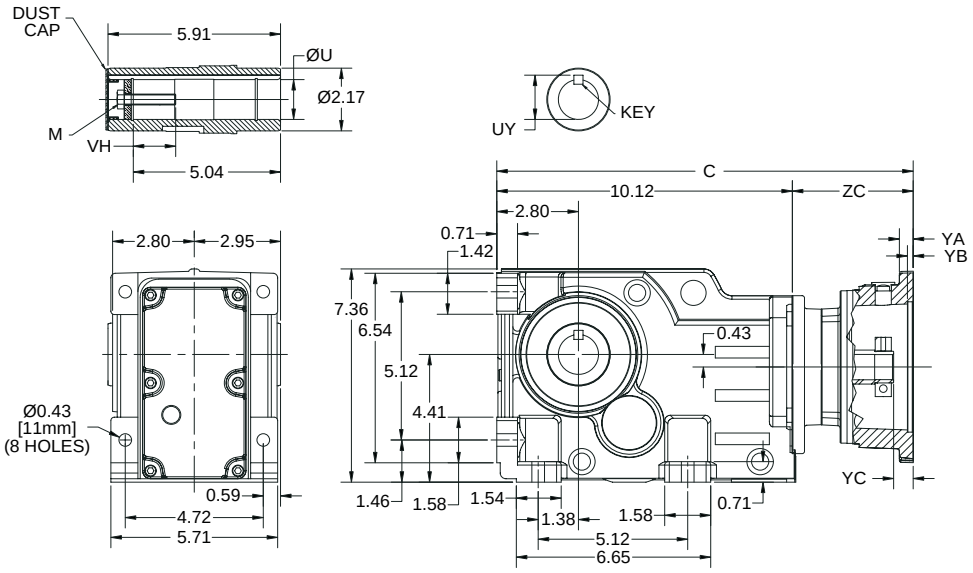
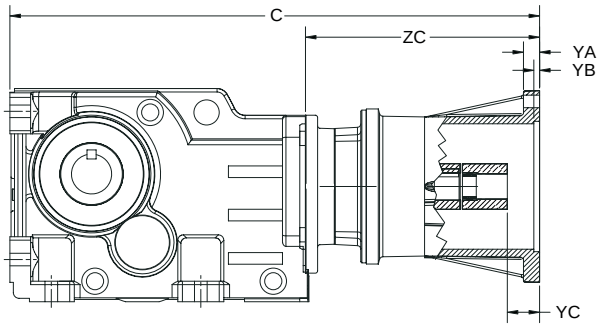
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB48

NEMA C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft



CLAMP COLLAR



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB48

NEMA C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft

HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
1.375	+0.0010 +0.0004	1.53	1.45	5/16 x 5/16 x 2-3/16	3/8 x16 x 1-3/4 UNC
35	+0.025 +0.009	38	43	10 x 8 x 45	M12 x 50

NEMA MOTOR ADAPTER - CLAMP COLLAR **Dimension - Inch**

	C	ZC	YA	YB	YC
56C	13.62	3.46	0.47	0.20	0.67
140TC	14.29	4.13	0.47	0.20	0.67
180TC	14.61	4.45	0.69	0.22	0.93

NEMA MOTOR ADAPTER - 3 PIECE COUPLED **Dimension - Inch**

	C	ZC	YA	YB	YC
56C	16.71	6.59	0.55	0.20	1.08
140TC	18.13	8.01	0.55	0.20	1.10
180TC	19.41	9.29	0.87	0.22	1.65

(H) See Footnote on back inside cover

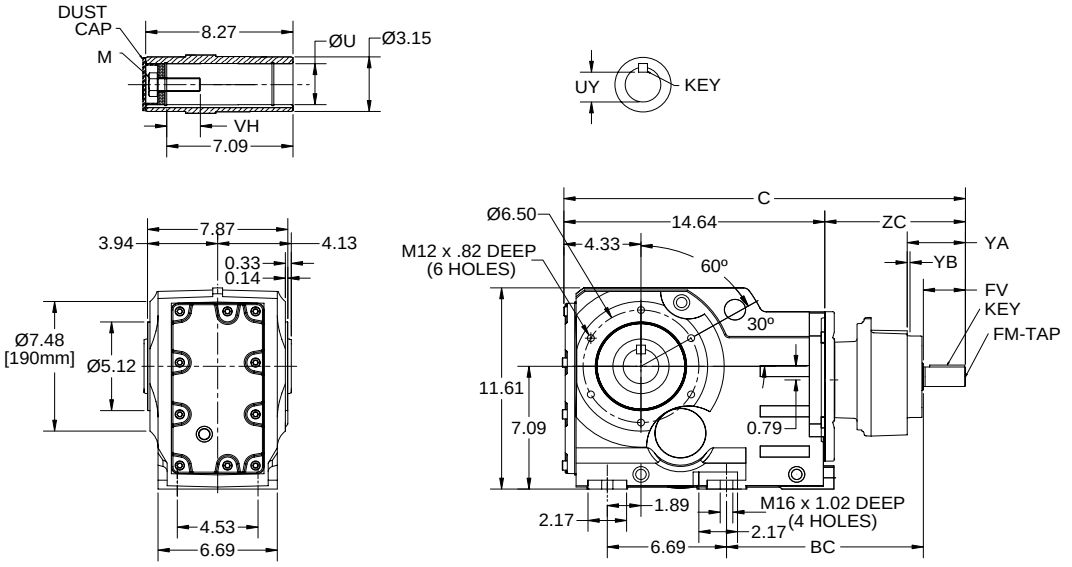
Refer to page Engineering-3 for Input Flange and Shaft details.
Refer to page RHB-352 for Twin Tapered Bushing details.

DIMENSIONS

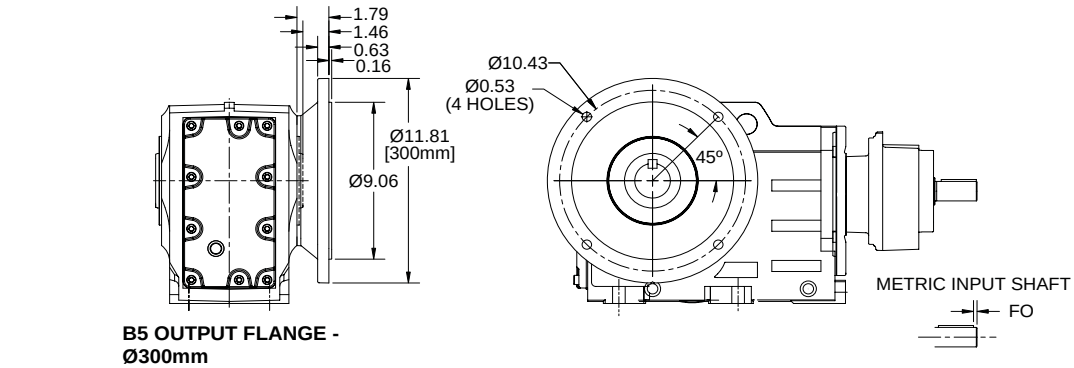
RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BF88

Separate - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft



B14 OUTPUT FLANGE - Ø190mm



B5 OUTPUT FLANGE - Ø300mm

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF88

Separate - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M-TAP
2.000	+0.0012 +0.0004	2.23	1.89	1/2 x 1/2 x 3-5/16	3/4-10 x 2-3/8 UNC
50	+0.029 +0.010	54	48	14 x 9 x 80	M16 x 60

OPTIONAL HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M-TAP
1.9375	+0.0012 +0.0004	2.17	1.89	1/2 x 1/2 x 3-7/16	3/4-10 x 2-23/64 UNC
60	+0.029 +0.010	64	58	18 x 11 x 100	M20 x 70

SEPARATE INPUT **Dimension - Inch/MM**

	C	BC	ZC	FO	FM x Depth	ØFU	tol.	FV	YA	YB	Key
71	20.16 512	11.02 280	5.51 140	--- 4	8-32 UNC x 0.49 M5 x 12.5	0.625 16	+0.0000 -0.0005 +0.012 +0.001	1.57 40	2.40	0.16	3/16 x 3/16 x 1-5/16 5 x 5 x 32
80	21.54 547	12.40 315	6.89 175	--- 4	1/4 -20 UNC x 0.63 M6 x 16	0.750 19	+0.0000 -0.0005 +0.015 +0.002	1.57 40	2.40	0.16	3/16 x 3/16 x 1-5/16 6 x 6 x 32
90	21.93 557	12.80 325	7.28 185	--- 5	5/16-18 UNC197 x 0.75 M8 x 19	0.875 24	+0.0000 -0.0005 +0.015 +0.002	1.97 50	2.80	0.16	3/16 x 3/16 x 1-5/8 8 x 7 x 40
100	22.56 573	13.43 341	7.91 201	--- 5	3/8-16 UNC x 0.87 M10 x 22	1.125 28	+0.0000 -0.0005 +0.015 +0.002	2.36 60	3.27	0.16	1/4 x 1/4 x 2 8 x 7 x 50
112	22.52 572	13.39 340	7.87 200	--- 5	3/8-16 UNC x 0.87 M10 x 22	1.250 28	+0.0000 -0.0005 +0.015 +0.002	2.36 60	3.27	0.16	5/16 x 5/16 x 2-1/16 8 x 7 x 50
132	25.83 656	16.69 424	11.18 284	--- 5	3/8-16 UNC x 0.87 M12 x 28	1.375 38	+0.0000 -0.0005 +0.018 +0.002	3.15 80	6.61	0.14	5/16 x 5/16 x 2-3/4 10 x 8 x 70

(H) See Footnote page on inside back cover

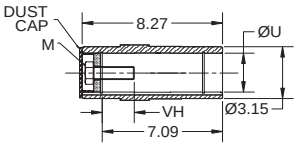
Refer to page Engineering-5 for Input Flange and Shaft details.
Refer to page RHB-354 for Twin Tapered Bushing details.

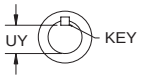
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

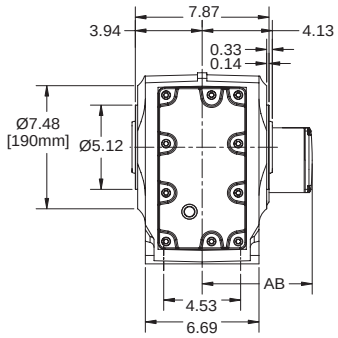
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF88

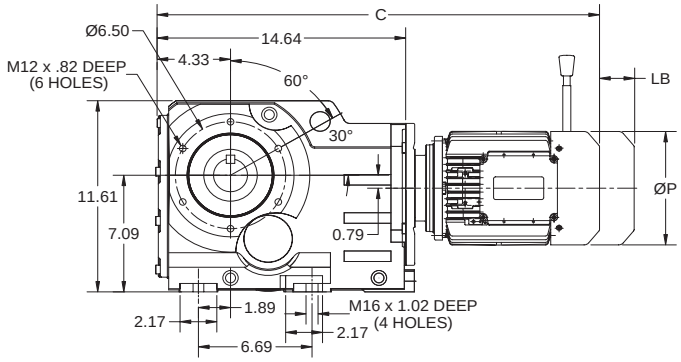
Integral Gearmotor - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft

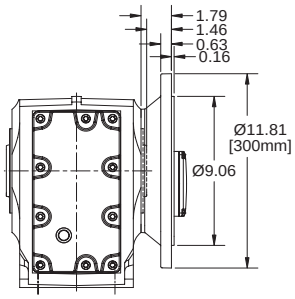




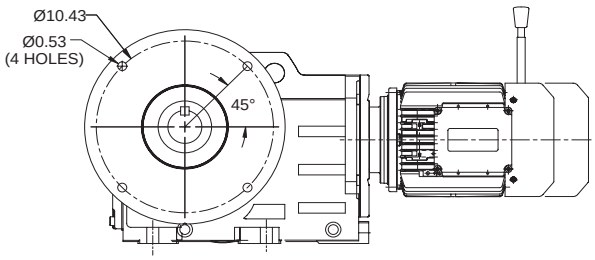


B14 OUTPUT FLANGE - Ø190mm





B5 OUTPUT FLANGE - Ø300mm



Due to variance in motor product offering, please contact Application Engineering for certified drawings.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF88

Integral Gearmotor - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M-TAP
2.000	+0.0012 +0.0004	2.22	1.89	1/2 x 1/2 x 3-5/16	3/4-10 x 2-23/64 UNC
50	+0.029 +0.010	54	48	14 x 9 x 80	M16 x 60

OPTIONAL HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M-TAP
1.9375	+0.0012 +0.0004	2.17	1.89	1/2 x 1/2 x 3-7/16	3/4-10 x 2-23/64 UNC
60	+0.029 +0.010	64	58	18 x 11 x 100	M20 x 70

MOTOR **Dimension - Inch/MM**

Frame	C	LB	P	AB
71C4 / 71D4	23.35 593	1.81 46	5.63 143	4.94 125.5
71E4 / 80F4	24.33 618	2.56 65	6.22 158	5.35 136
80G4	24.33 618	2.56 65	6.22 158	5.35 136
90H4	25.08 637	2.52 64	6.93 176	5.83 148
90I4	26.06 662	2.52 64	6.93 176	5.83 148
100J4	27.87 708	2.91 74	7.72 196	6.54 166
112L4	28.48 724	2.91 74	8.66 220	6.93 176
132M4	33.05 840	3.90 99	9.69 246	7.41 188
132N4	33.05 840	3.90 99	9.69 246	7.40 188

(H) See Footnote page on inside back cover

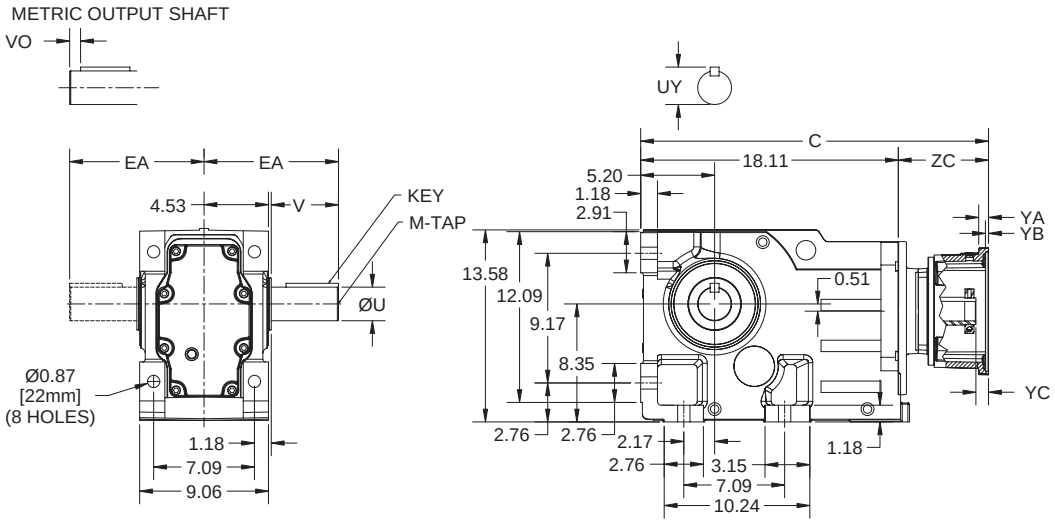
Refer to page RHB-354 for Twin Tapered Bushing details.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

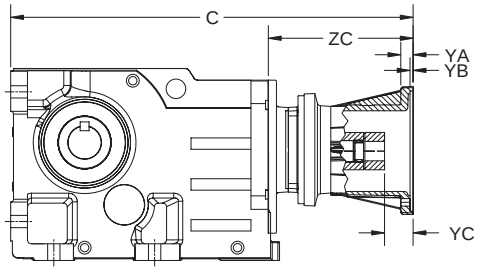
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB108

NEMA C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft



CLAMP COLLAR



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB108

NEMA C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.375	+0.0000 -0.0010	2.65	4.72	-	5/8 x 5/8 x 3-11/16	3/4-10 UNC x 1.65	9.45
60	+0.030 +0.011	64	120	5	18 x 11 x 100	M20 x 42	240

OPTIONAL SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.1875	+0.0000 -0.0010	3.52	6.69	-	3/4 x 3/4 x 5-3/8	3/4-10 UNC x 1.65	11.42
80	+0.030 +0.011	85	170	20	22 x 14 x 125	M20 x 42	290

NEMA MOTOR ADAPTER - CLAMP COLLAR **Dimension - Inch**

	C	ZC	YA	YB	YC
140TC	21.27	3.09	0.47	0.20	0.67
180TC	21.49	3.31	0.69	0.22	0.93
210TC	24.52	6.34	0.69	0.22	0.89
250TC	24.46	6.28	0.94	0.20	1.13

NEMA MOTOR ADAPTER - 3 PIECE COUPLED **Dimension - Inch**

	C	ZC	YA	YB	YC
140TC	25.08	6.97	0.55	0.20	1.10
180TC	26.26	8.15	0.87	0.22	1.65
210TC	28.29	10.18	0.87	0.22	2.01
250TC	30.24	12.13	0.94	0.20	2.17

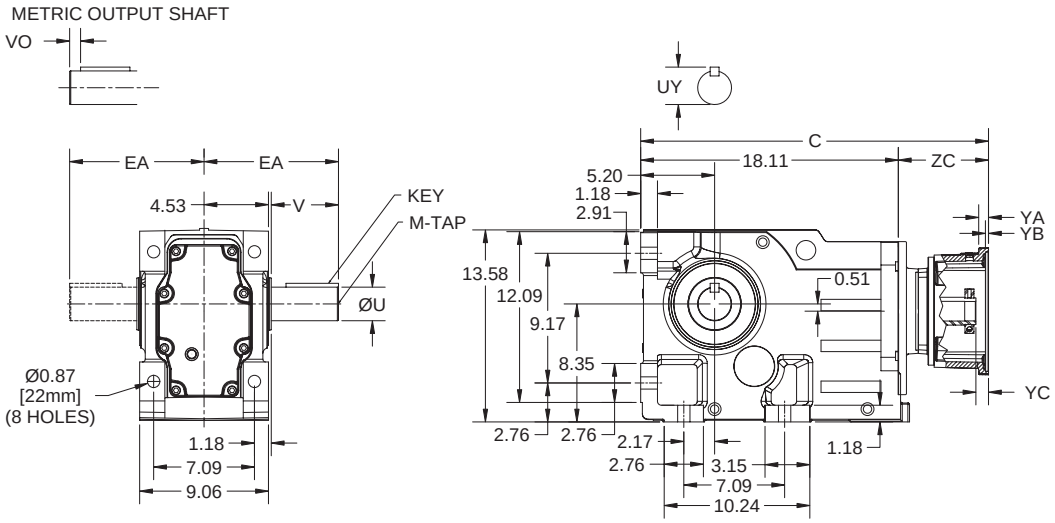
Refer to page Engineering-3 for Input Flange and Shaft details.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

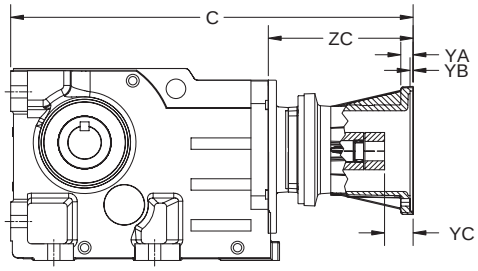
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB108

IEC C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft



CLAMP COLLAR



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB108

IEC C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.375	+0.000 -0.0010	2.65	4.72	-	5/8 x 5/8 x 3-11/16	3/4-10 UNC x 1.65	9.45
60	+0.030 +0.011	64	120	5	18 x 11 x 100	M20 x 42	240

OPTIONAL SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.1875	+0.000 -0.0010	3.52	6.69	-	3/4 x 3/4 x 5-3/8	3/4-10 UNC x 1.65	11.42
80	+0.030 +0.011	85	170	20	22 x 14 x 125	M20 x 42	290

IEC MOTOR ADAPTER - CLAMP COLLAR — **Dimension - Inch**

	C	ZC	YA	YB	YC
80D	20.77	2.66	0.61	0.18	0.61
90D	20.77	2.66	0.61	0.18	0.61
100D	20.96	2.85	0.81	0.20	0.28
112D	21.18	3.07	0.75	0.20	0.28
132D	22.80	4.69	0.75	0.20	0.87
160D	24.49	6.38	0.98	0.24	0.79

IEC MOTOR ADAPTER - 3 PIECE COUPLED — **Dimension - Inch**

	C	ZC	YA	YB	YC
80D	25.00	6.89	0.67	0.18	0.59
90D	25.00	6.89	0.67	0.18	1.02
100D	25.79	7.68	0.75	0.20	1.18
112D	25.63	7.52	0.75	0.20	1.18
132D	28.05	9.94	0.75	0.20	1.77
160D	30.67	12.56	1.18	0.24	2.60

Refer to page Engineering-4 for Input Flange and Shaft details.

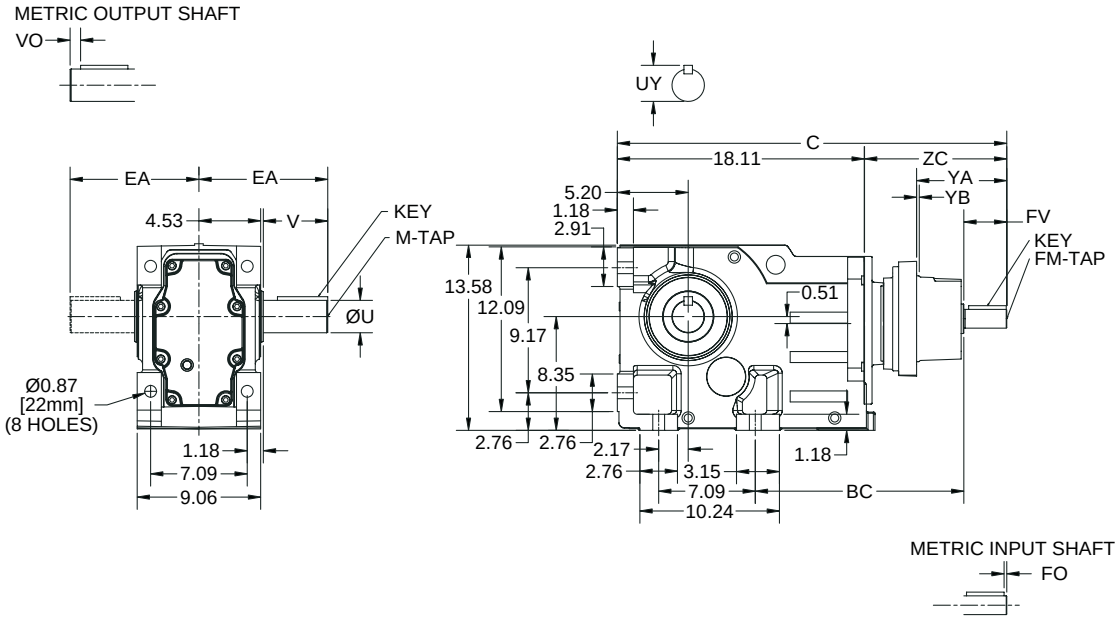
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB108

Separate - Foot Mounted
Solid Output Shaft



MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB108

Separate - Foot Mounted
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.375	+0.000 -0.0010	2.65	4.72	-	5/8 x 5/8 x 3-11/16	3/4-10 UNC x 1.65	9.45
60	+0.030 +0.011	64	120	5	18 x 11 x 100	M20 x 42	240

OPTIONAL SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.1875	+0.000 -0.0010	3.52	6.69	-	3/4 x 3/4 x 5-3/8	3/4-10 UNC x 1.65	11.42
80	+0.030 +0.011	85	170	20	22 x 14 x 125	M20 x 42	290

SEPARATE INPUT **Dimension - Inch/MM**

	C	BC	ZC	FO	FM x Depth	ØFU	tol.	FV	YA	YB	Key
80	24.41	14.29	6.30	---	1/4-20 UNC x 0.63	0.75	+0.0000 -0.0005	1.57	2.40	0.16	3/16 x 3/16 x 1-5/16
	620	363	160	4	M6 x 16	19	+0.015 +0.002	40			6 x 6 x 32
90	24.80	14.69	6.69	---	5/16-18 UNC x 0.75	0.875	+0.0000 -0.0005	1.97	2.80	0.16	3/16 x 3/16 x 1-5/8
	630	373	170	5	M8 x 19	24	+0.015 +0.002	40			8 x 7 x 40
100	25.31	15.20	7.20	---	3/8-16 UNC x 0.87	1.125	+0.0000 -0.0005	2.36	3.27	0.16	1/4/ x 1/4 x 2
	643	386	183	5	M10 x 22	28	+0.015 +0.002	60			8 x 7 x 50
112	25.24	15.12	7.13	---	3/8-16 UNC x 0.87	1.250	+0.0000 -0.0005	2.36	3.27	0.16	5/16 x 5/16 x 2-1/16
	641	384	181	5	M10 x 22	28	+0.015 +0.002	60			8 x 7 x 50
132	28.58	18.46	10.47	---	3/8-16 UNC x 0.87	1.375	+0.0000 -0.0005	3.15	6.61	0.14	5/16 x 5/16 x 2-3/4
	726	469	266	5	M12 x 28	38	+0.018 +0.002	80			10 x 8 x 70
160	30.28	20.16	12.17	---	5/8-11 UNC x 1.42	1.625	+0.0000 -0.0010	4.33	8.46	0.20	3/8 x 3/8 x 3-1/2
	769	512	309	10	M16 x 36	42	+0.018 +0.002	110			12 x 8 x 90

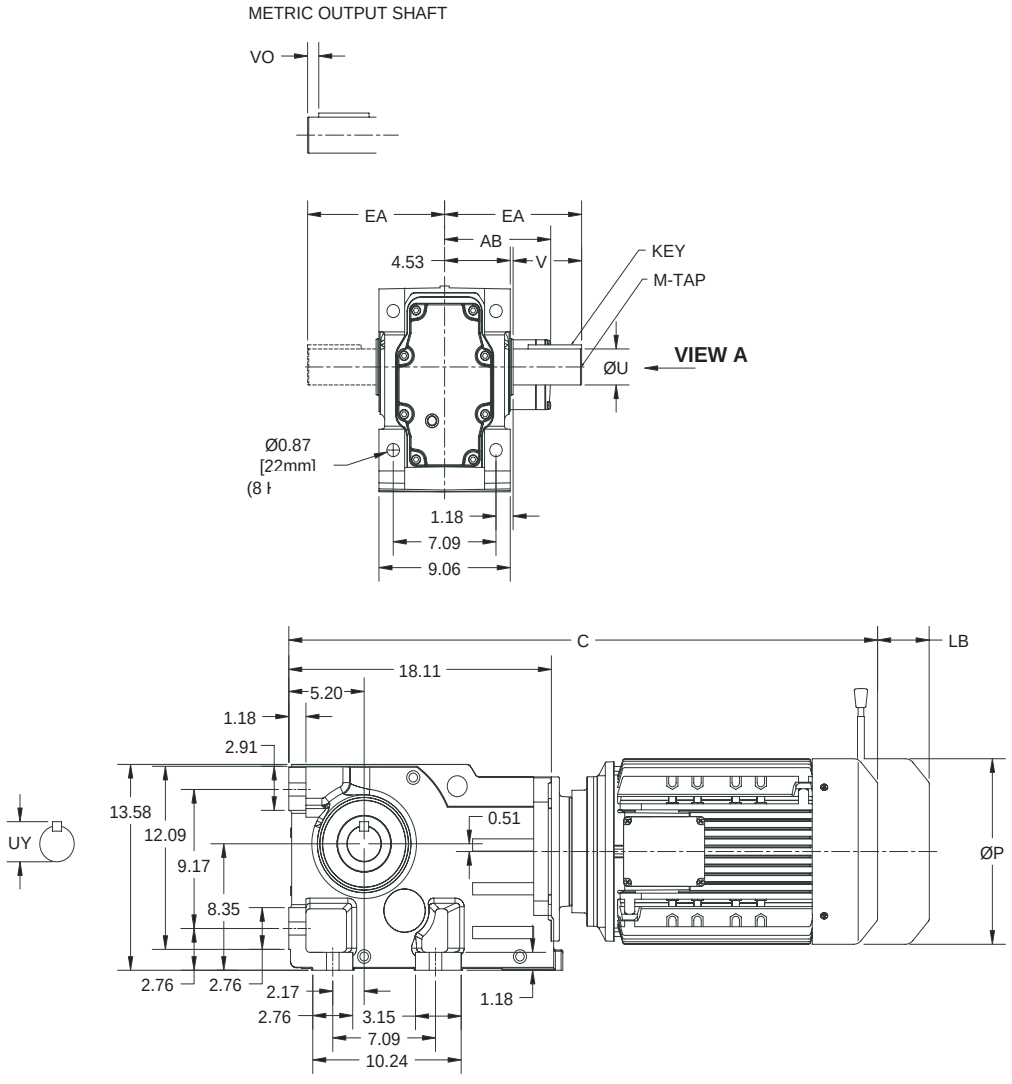
Refer to page Engineering-5 for Input Flange and Shaft details.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB108

Integral Gearmotor - Foot Mounted
Solid Output Shaft



VIEW A

Due to variance in motor product offering, please contact Application Engineering for certified drawings.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB108

Integral Gearmotor - Foot Mounted
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.375	+0.000 -0.0010	2.65	4.72	-	5/8 x 5/8 x 3-11/16	3/4-10 UNC x 1.65	9.45
60	+0.030 +0.011	64	120	10	18 x 11 x 100	M20 x 42	240

OPTIONAL SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.1875	+0.000 -0.0010	3.52	6.69	-	3/4 x 3/4 x 5-3/8	3/4-10 UNC x 1.65	11.42
80	+0.030 +0.011	85	170	20	22 x 14 x 125	M20 x 42	290

MOTOR **Dimension - Inch/MM**

Frame	C	LB	P	AB
80G4	27.20 691	2.56 65	6.22 158	5.35 136
90H4	27.95 710	2.52 64	6.93 176	5.83 148
90I4	28.94 735	2.52 64	6.93 176	5.83 148
100J4	30.65 779	2.91 74	7.72 196	6.54 166
112L4	31.22 793	2.91 74	8.66 220	6.93 176
132M4	35.79 909	3.90 99	9.69 246	7.40 188
132N4	35.79 909	3.90 99	9.69 246	7.40 188
160P4	40.20 1021	4.72 120	12.28 312	8.66 220
160Q4	40.20 1021	4.72 120	12.28 312	8.66 220

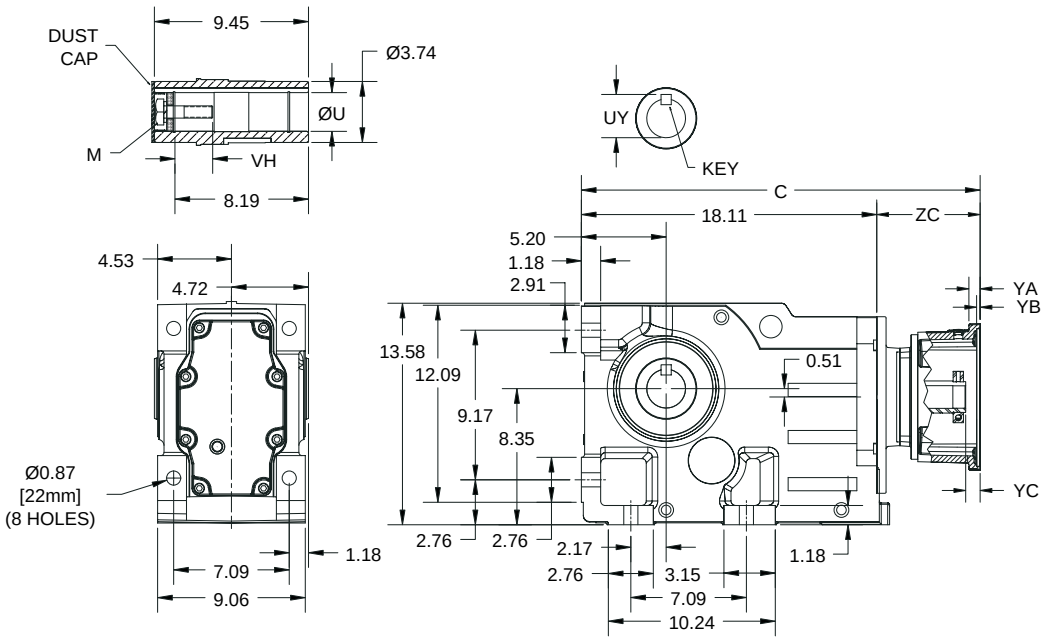
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

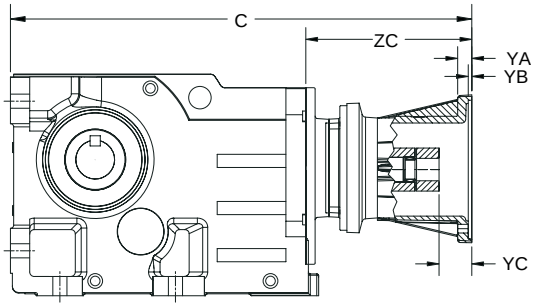
RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB108

NEMA C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft



CLAMP COLLAR



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB108

NEMA C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.66	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
70	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

NEMA MOTOR ADAPTER - CLAMP COLLAR — **Dimension - Inch**

	C	ZC	YA	YB	YC
140TC	21.27	3.09	0.47	0.20	0.67
180TC	21.49	3.31	0.69	0.22	0.93
210TC	24.52	6.34	0.69	0.22	0.89
250TC	24.46	6.28	0.94	0.20	1.13

NEMA MOTOR ADAPTER - 3 PIECE COUPLED — **Dimension - Inch**

	C	ZC	YA	YB	YC
140TC	25.08	6.97	0.55	0.20	1.10
180TC	26.26	8.15	0.87	0.22	1.65
210TC	28.29	10.18	0.87	0.22	2.01
250TC	30.24	12.13	0.94	0.20	2.17

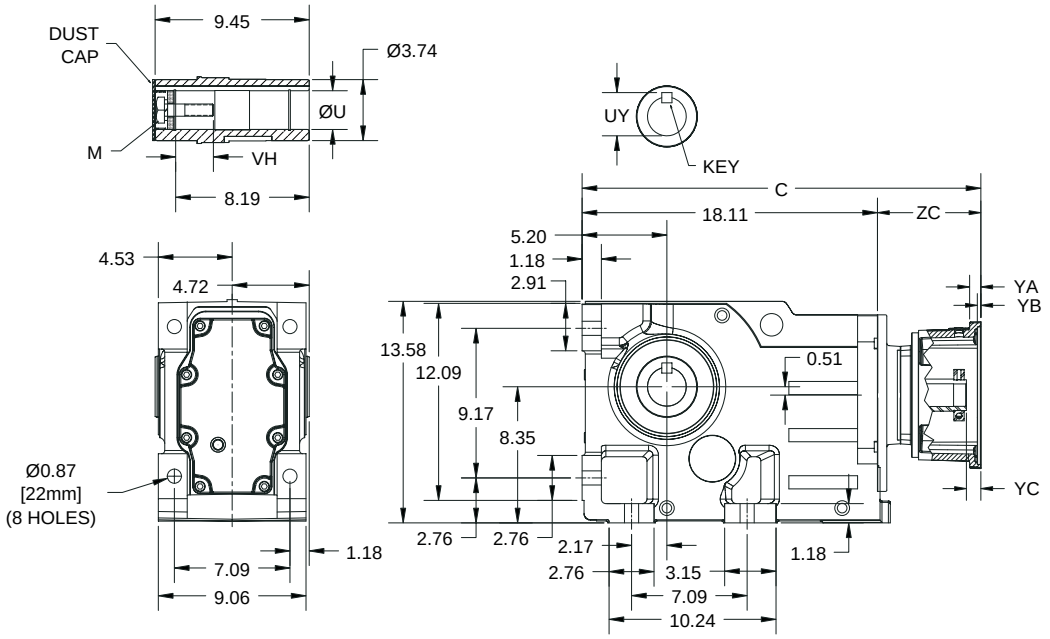
(H) See Footnote page on inside back cover

Refer to page Engineering-3 for Input Flange and Shaft details.
Refer to page RHB-355 for Twin Tapered Bushing details.

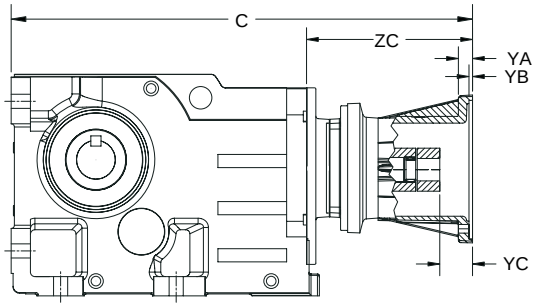
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB108

IEC C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft



CLAMP COLLAR



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB108

IEC C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.66	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
70	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

IEC MOTOR ADAPTER - CLAMP COLLAR — **Dimension - Inch**

	C	ZC	YA	YB	YC
80D	20.77	2.66	0.61	0.18	0.61
90D	20.77	2.66	0.61	0.18	0.61
100D	20.96	2.85	0.81	0.20	0.28
112D	21.18	3.07	0.75	0.20	0.28
132D	22.80	4.69	0.75	0.20	0.87
160D	24.49	6.38	0.98	0.24	0.79

IEC MOTOR ADAPTER - 3 PIECE COUPLED — **Dimension - Inch**

	C	ZC	YA	YB	YC
80D	25.00	6.89	0.67	0.18	0.59
90D	25.00	6.89	0.67	0.18	1.02
100D	25.79	7.68	0.75	0.20	1.18
112D	25.63	7.52	0.75	0.20	1.18
132D	28.05	8.94	0.75	0.20	1.77
160D	30.67	12.56	1.18	0.24	2.60

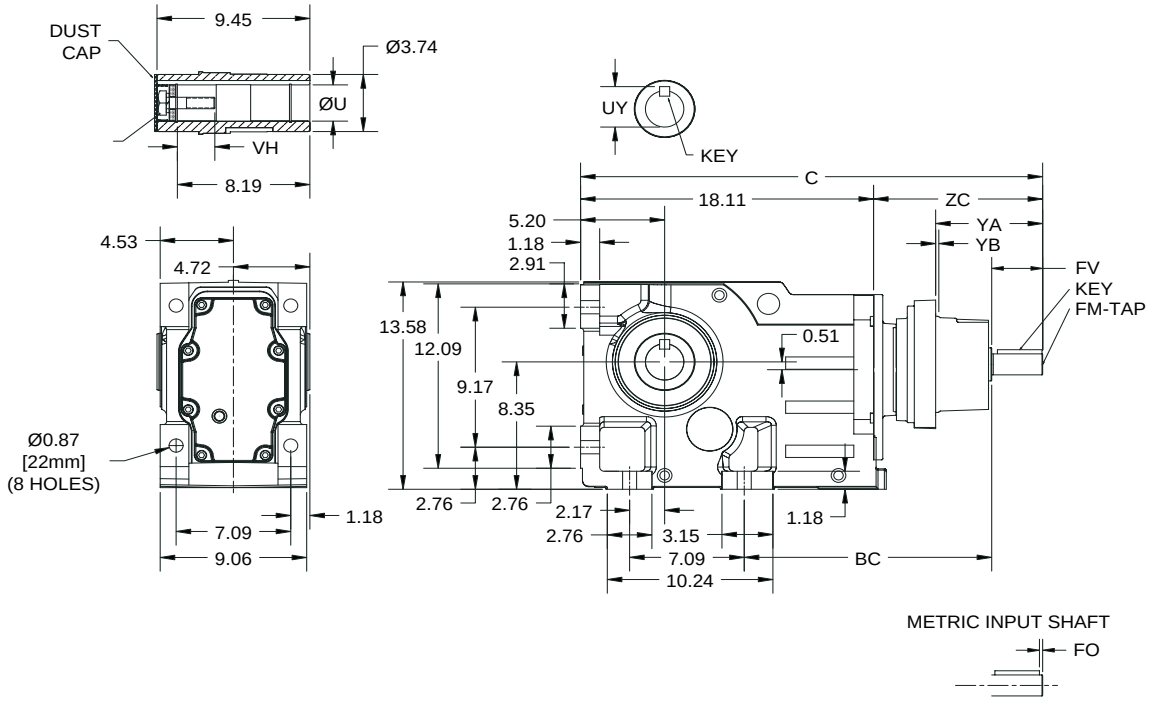
(H) See Footnote page on inside back cover

Refer to page Engineering-4 for Input Flange and Shaft details.
Refer to page RHB-355 for Twin Tapered Bushing details.

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB108

Separate - Foot Mounted
Straight Hollow Bore Output Shaft



MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB108

Separate - Foot Mounted
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.66	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
70	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

SEPARATE INPUT **Dimension - Inch/MM**

	C	BC	ZC	FO	FM x Depth	ØFU	tol.	FV	YA	YB	Key
80	24.41	14.29	6.30	---	1/4-20 UNC x 0.63	0.75	+0.0000 -0.0005	1.57	2.40	0.16	3/16 x 3/16 x 1-5/16
	620	363	160	4	M6 x 16	19	+0.015 +0.002	40			6 x 6 x 32
90	24.80	14.69	6.69	---	5/16-18 UNC x 0.75	0.875	+0.0000 -0.0005	1.97	2.80	0.16	3/16 x 3/16 x 1-5/8
	630	373	170	5	M8 x 19	24	+0.015 +0.002	40			8 x 7 x 40
100	25.31	15.2	7.20	---	3/8-16 UNC x 0.87	1.125	+0.0000 -0.0005	2.36	3.27	0.16	1/4/ x 1/4 x 2
	643	386	183	5	M10 x 22	28	+0.015 +0.002	60			8 x 7 x 50
112	25.24	15.12	7.13	---	3/8-16 UNC x 0.87	1.250	+0.0000 -0.0005	2.36	3.27	0.16	5/16 x 5/16 x 2-1/16
	641	384	181	5	M10 x 22	28	+0.015 +0.002	60			8 x 7 x 50
132	28.58	18.46	10.47	---	3/8-16 UNC x 0.87	1.375	+0.0000 -0.0005	3.15	6.61	0.14	5/16 x 5/16 x 2-3/4
	726	469	266	5	M12 x 28	38	+0.018 +0.002	80			10 x 8 x 70
160	30.28	20.16	12.17	---	5/8-11 UNC x 1.42	1.625	+0.0000 -0.0010	4.33	8.46	0.20	3/8 x 3/8 x 3-1/2
	769	512	309	10	M16 x 36	42	+0.018 +0.002	110			12 x 8 x 90

(H) See Footnote page on inside back cover

Refer to page Engineering-5 for Input Flange and Shaft details.
Refer to page RHB-355 for Twin Tapered Bushing details.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB108

Separate - Foot Mounted
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.66	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
70	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

SEPARATE INPUT **Dimension - Inch/MM**

	C	BC	ZC	FO	FM x Depth	ØFU	tol.	FV	YA	YB	Key
80	24.41	14.29	6.30	---	1/4-20 UNC x 0.63	0.75	+0.0000 -0.0005	1.57	2.40	0.16	3/16 x 3/16 x 1-5/16
	620	363	160	4	M6 x 16	19	+0.015 +0.002	40			6 x 6 x 32
90	24.80	14.69	6.69	---	5/16-18 UNC x 0.75	0.875	+0.0000 -0.0005	1.97	2.80	0.16	3/16 x 3/16 x 1-5/8
	630	373	170	5	M8 x 19	24	+0.015 +0.002	40			8 x 7 x 40
100	25.31	15.2	7.20	---	3/8-16 UNC x 0.87	1.125	+0.0000 -0.0005	2.36	3.27	0.16	1/4/ x 1/4 x 2
	643	386	183	5	M10 x 22	28	+0.015 +0.002	60			8 x 7 x 50
112	25.24	15.12	7.13	---	3/8-16 UNC x 0.87	1.250	+0.0000 -0.0005	2.36	3.27	0.16	5/16 x 5/16 x 2-1/16
	641	384	181	5	M10 x 22	28	+0.015 +0.002	60			8 x 7 x 50
132	28.58	18.46	10.47	---	3/8-16 UNC x 0.87	1.375	+0.0000 -0.0005	3.15	6.61	0.14	5/16 x 5/16 x 2-3/4
	726	469	266	5	M12 x 28	38	+0.018 +0.002	80			10 x 8 x 70
160	30.28	20.16	12.17	---	5/8-11 UNC x 1.42	1.625	+0.0000 -0.0010	4.33	8.46	0.20	3/8 x 3/8 x 3-1/2
	769	512	309	10	M16 x 36	42	+0.018 +0.002	110			12 x 8 x 90

(H) See Footnote page on inside back cover

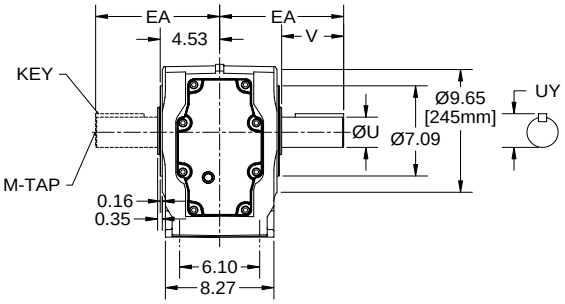
Refer to page Engineering-5 for Input Flange and Shaft details.
Refer to page RHB-355 for Twin Tapered Bushing details.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

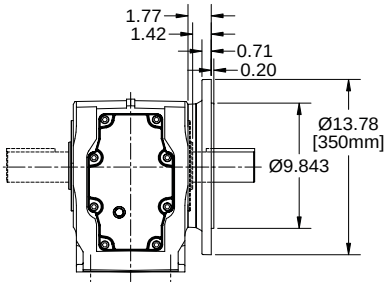
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

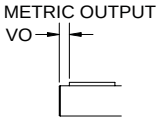
IEC C-Face - Flange Mounted (B5 / B14) - Clamp Collar / 3 Piece Coupled
Solid Output Shaft

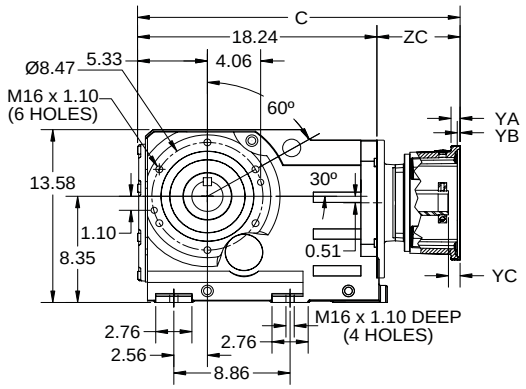


B14 OUTPUT FLANGE - Ø245mm

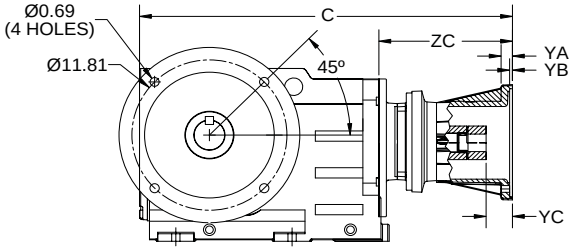


B5 OUTPUT FLANGE - Ø350mm





CLAMP COLLAR



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB108

Integral Gearmotor - Foot Mounted
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.65	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
60	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

MOTOR **Dimension - Inch/MM**

Frame	C	LB	P	AB
80G4	27.20 691	2.56 65	6.22 158	5.35 136
90H4	27.95 710	2.52 64	6.93 176	5.83 148
90I4	28.94 735	2.52 64	6.93 176	5.83 148
100J4	30.65 779	2.91 74	7.72 196	6.54 166
112L4	31.22 793	2.91 74	8.66 220	6.93 176
132M4	35.79 909	3.90 99	9.69 246	7.40 188
132N4	35.79 909	3.90 99	8.66 246	7.40 188
160P4	40.20 1021	4.72 120	12.28 312	8.66 220
160Q4	40.20 1021	4.72 120	12.28 312	8.66 220

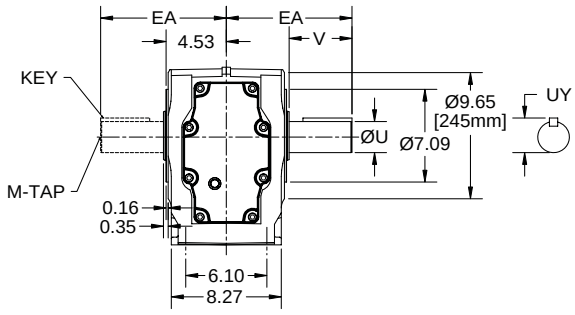
(H) See Footnote page on inside back cover

Refer to page RHB-355 for Twin Tapered Bushing details.

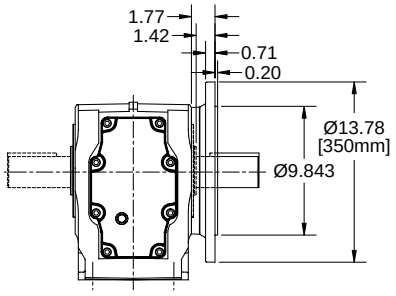
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

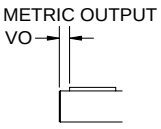
NEMA C-Face - Flange Mounted (B5 / B14) - Clamp Collar / 3 Piece Coupled
Solid Output Shaft

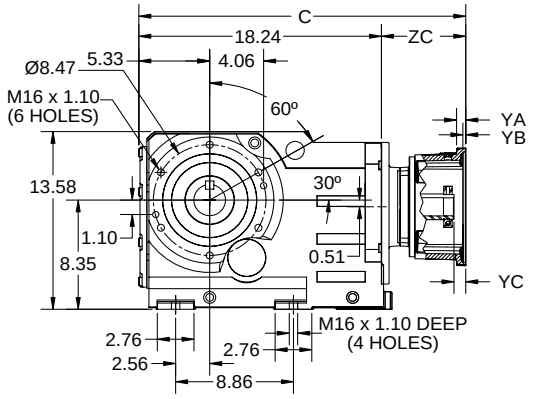


B14 OUTPUT FLANGE - Ø245mm

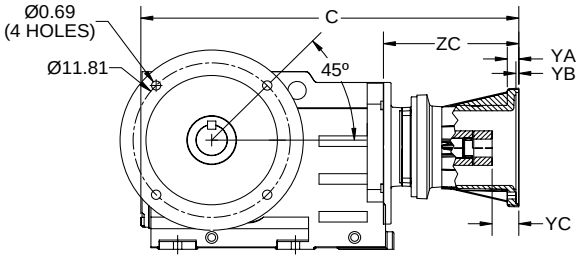


B5 OUTPUT FLANGE - Ø350mm





CLAMP COLLAR



THREE-PIECE COUPLED

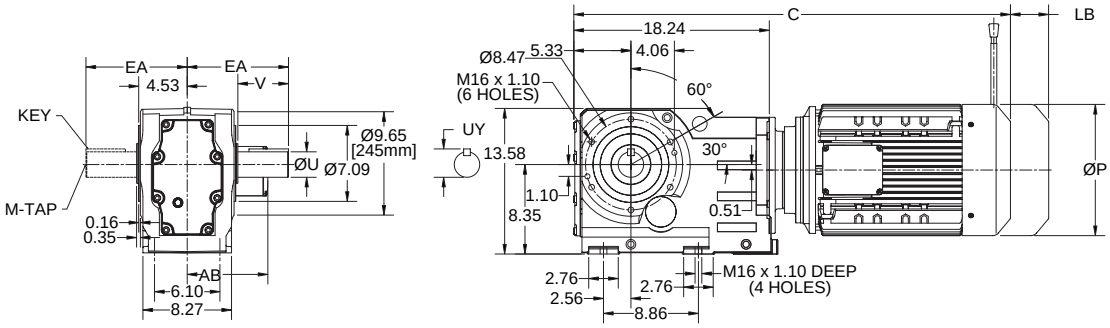
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

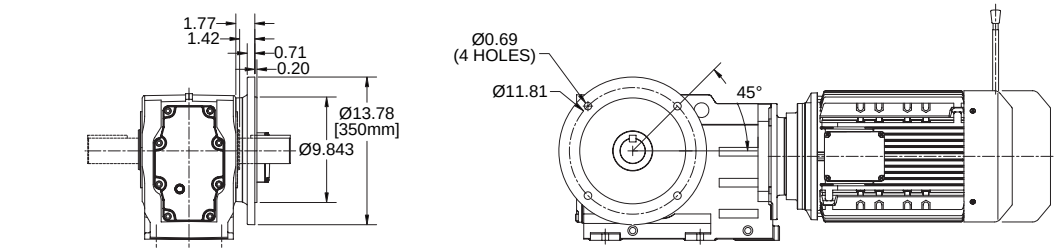
RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BF108

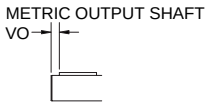
Integral Gearmotor - Flange Mounted (B5 / B14)
Solid Output Shaft



B14 OUTPUT FLANGE - Ø245mm



B5 OUTPUT FLANGE - Ø350mm



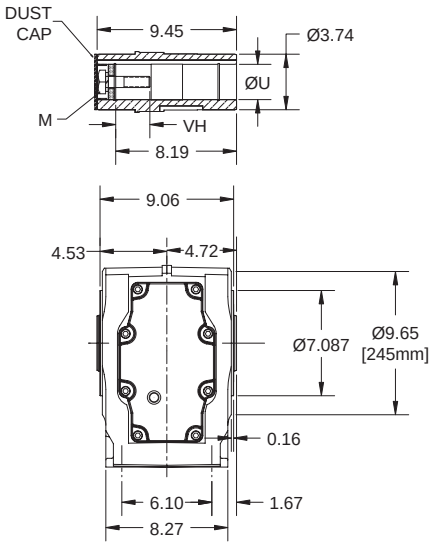
Due to variance in motor product offering, please contact Application Engineering for

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

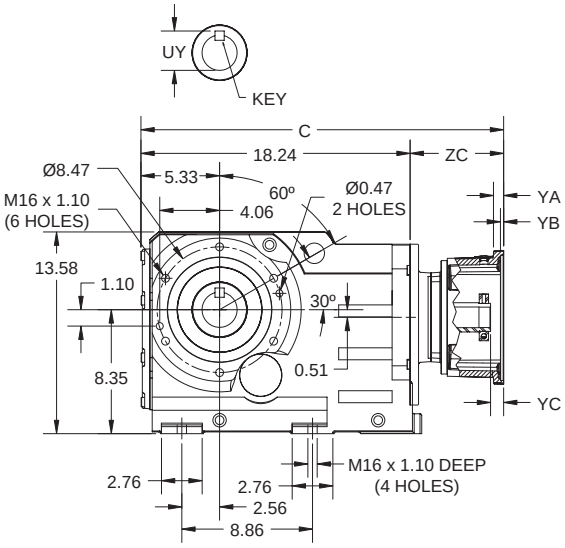
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

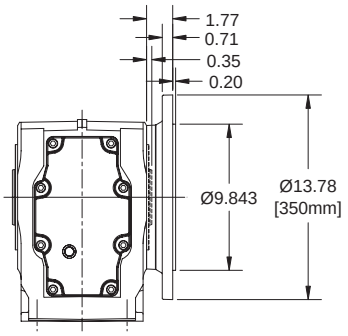
IEC C-Face - Flange Mounted (B5 / B14) - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft



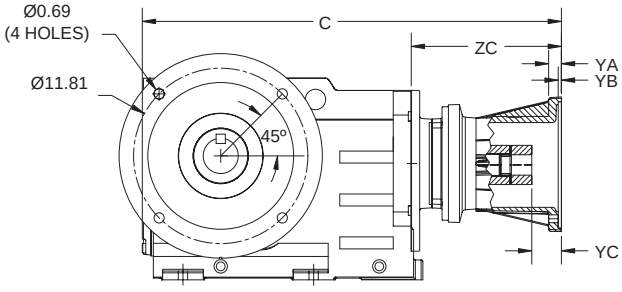
B14 OUTPUT FLANGE - Ø245mm



CLAMP COLLAR



B5 OUTPUT FLANGE - Ø350mm



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

IEC C-Face - Flange Mounted (B5 / B14) - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.66	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
70	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

IEC MOTOR ADAPTER - CLAMP COLLAR **Dimension - Inch**

	C	ZC	YA	YB	YC
80D	20.91	2.66	0.61	0.18	0.61
90D	20.91	2.66	0.61	0.18	0.61
100D	21.10	2.85	0.81	0.20	0.28
112D	21.32	3.07	0.75	0.20	0.28
132D	22.93	4.69	0.75	0.20	0.87
160D	24.63	6.38	0.98	0.24	0.79

IEC MOTOR ADAPTER - 3 PIECE COUPLED **Dimension - Inch**

	C	ZC	YA	YB	YC
80D	25.14	6.89	0.67	0.18	0.59
90D	25.14	6.89	0.67	0.18	1.02
100D	25.93	7.68	0.75	0.20	1.18
112D	25.77	7.52	0.75	0.20	1.18
132D	28.19	9.94	0.75	0.20	1.77
160D	30.81	12.56	1.18	0.24	2.60

(H) See Footnote page on inside back cover

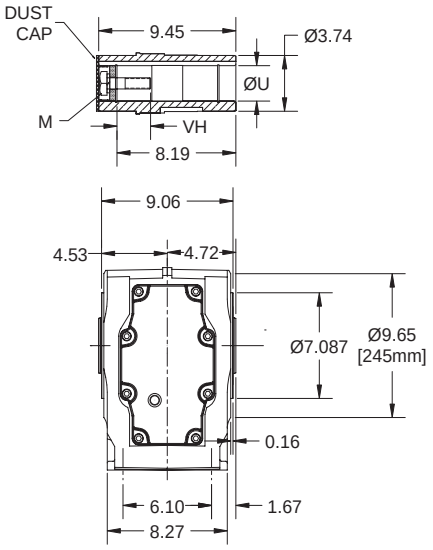
Refer to page Engineering-4 for Input Flange and Shaft details.
Refer to page RHB-355 for Twin Tapered Bushing details.

DIMENSIONS

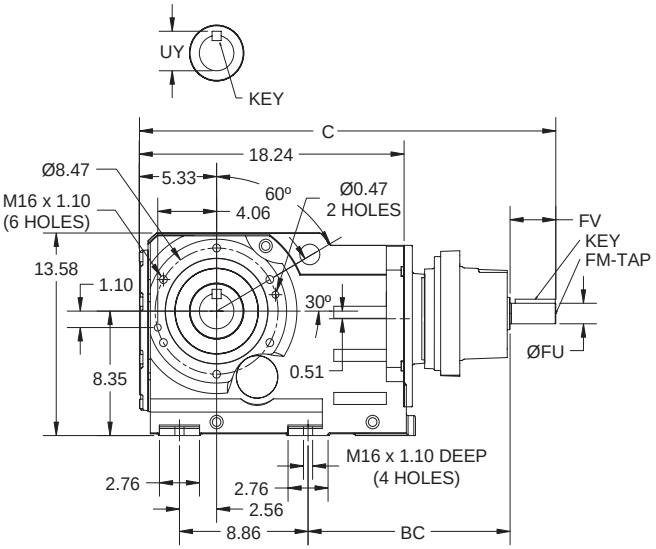
RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BF108

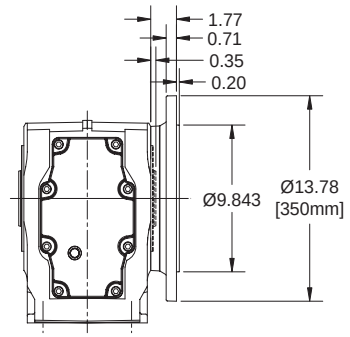
Separate - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft



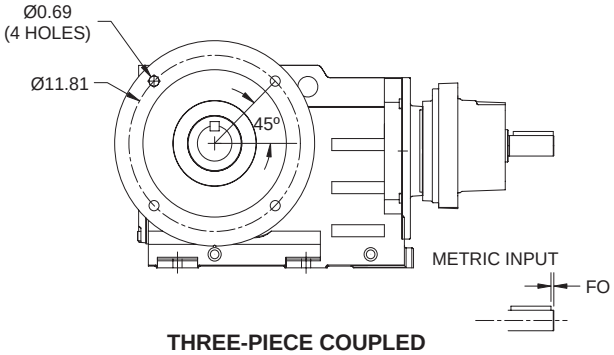
B14 OUTPUT FLANGE - Ø245mm



CLAMP COLLAR



B5 OUTPUT FLANGE - Ø350mm



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

Separate - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.66	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
70	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

SEPARATE INPUT **Dimension - Inch/MM**

	C	BC	ZC	FO	FM x Depth	ØFU	tol.	FV	YA	YB	Key
80	24.53 623	12.89 328	6.28 160	--- 4	1/4-20 UNC x 0.63 M6 x 16	0.75 19	+0.0000 -0.0005 +0.015 +0.002	1.57 40	2.40	0.16	3/16 x 3/16 x 1-5/16 6 x 6 x 32
90	24.92 633	13.29 338	6.67 170	--- 5	5/16-18 UNC x 0.75 M8 x 19	0.875 24	+0.0000 -0.0005 +0.015 +0.002	1.97 40	2.80	0.16	3/16 x 3/16 x 1-5/8 8 x 7 x 40
100	25.45 647	13.82 351	7.20 183	--- 5	3/8-16 UNC x 0.87 M10 x 22	1.125 28	+0.0000 -0.0005 +0.015 +0.002	2.36 60	3.27	0.16	1/4/ x 1/4 x 2 8 x 7 x 50
112	25.37 645	13.74 349	7.13 181	--- 5	3/8-16 UNC x 0.87 M10 x 22	1.250 28	+0.0000 -0.0005 +0.015 +0.002	2.36 60	3.27	0.16	5/16 x 5/16 x 2-1/16 8 x 7 x 50
132	28.70 729	17.07 434	10.45 266	--- 5	3/8-16 UNC x 0.87 M12 x 28	1.375 38	+0.0000 -0.0005 +0.018 +0.002	3.15 80	6.61	0.14	5/16 x 5/16 x 2-3/4 10 x 8 x 70
160	30.41 773	18.78 477	12.17 309	--- 10	5/8-11 UNC x 1.42 M16 x 36	1.625 42	+0.0000 -0.0010 +0.018 +0.002	4.33 110	8.46	0.20	3/8 x 3/8 x 3-1/2 12 x 8 x 90

(H) See Footnote page on inside back cover

Refer to page Engineering-5 for Input Flange and Shaft details.
Refer to page RHB-355 for Twin Tapered Bushing details.

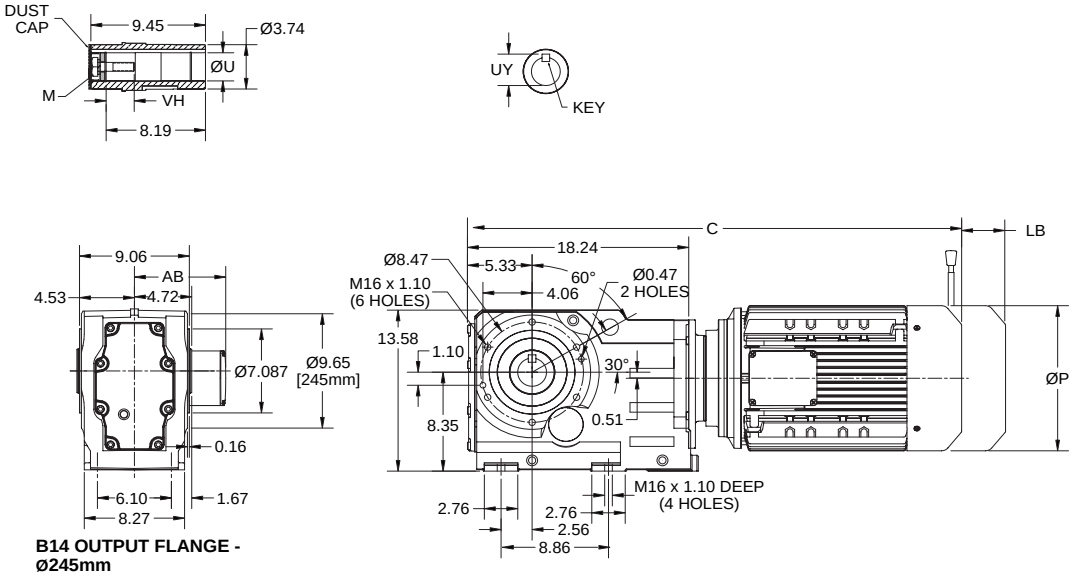
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

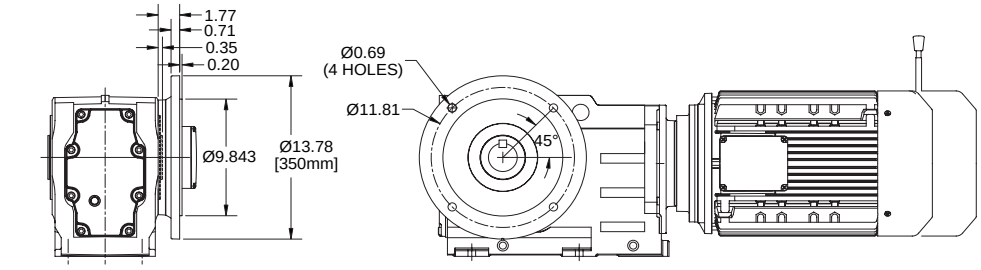
RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BF108

Integral Gearmotor - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft



B14 OUTPUT FLANGE - Ø245mm



B5 OUTPUT FLANGE - Ø350mm

Due to variance in motor product offering, please contact Application Engineering for certified drawings.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BF108

Integral Gearmotor - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.65	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
60	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

MOTOR — **Dimension - Inch/MM**

Frame	C	LB	P	AB
80G4	27.34 695	2.56 65	6.22 158	5.35 136
90H4	28.09 714	2.52 64	6.93 176	5.83 148
90I4	29.07 739	2.52 64	6.93 176	5.83 148
100J4	30.79 782	2.91 74	7.72 196	6.54 166
112L4	31.36 797	2.91 81	8.66 220	6.93 176
132M4	35.93 913	3.90 99	9.69 246	7.40 188
132N4	35.93 913	3.90 99	9.69 246	7.40 188
160P4	40.33 1025	4.72 120	12.28 312	8.66 220
160Q4	40.33 1025	4.72 120	12.28 312	8.66 220

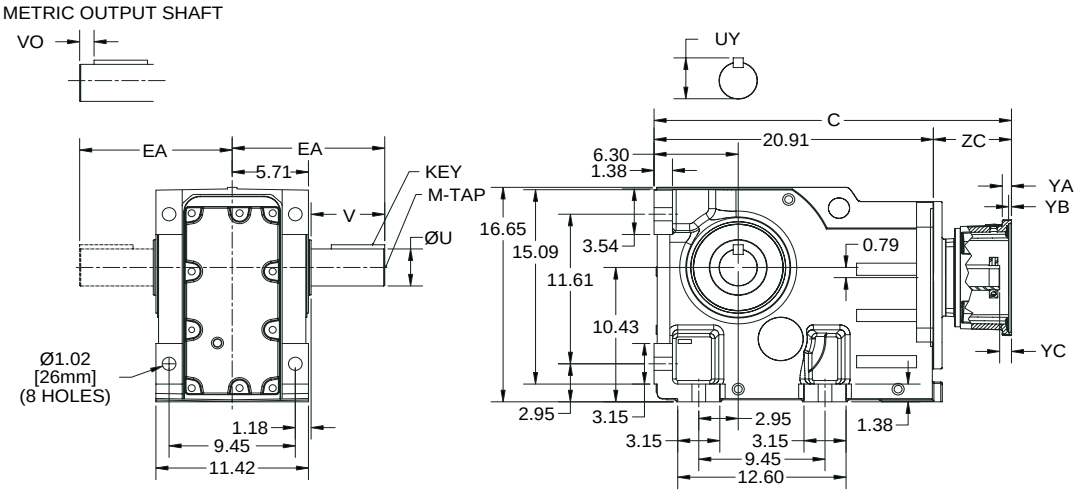
(H) See Footnote page on inside back cover

Refer to page RHB-355 for Twin Tapered Bushing details.

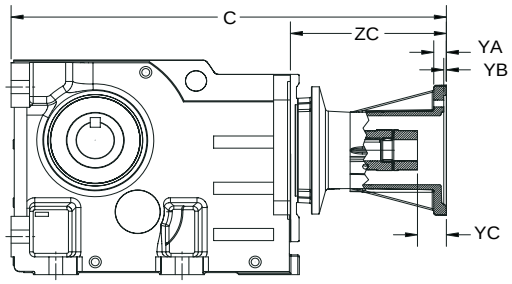
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB128

NEMA C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft



CLAMP COLLAR



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB128

NEMA C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.875	+0.0000 -0.0010	3.21	5.51	-	3/4 x 3/4 x 4	3/4-10 UNC x 1.65	11.42
70	+0.035 +0.013	75	140	8	20 x 12 x 125	M20 x 42	290

OPTIONAL SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.625	+0.0000 -0.0010	4.01	6.69	-	7/8 x 7/8 x 5-5/8	1-8 UNC x 1.97	12.60
90	+0.035 +0.013	95	170	15	25 x 14 x 140	M24 x 50	320

NEMA MOTOR ADAPTER - CLAMP COLLAR — **Dimension - Inch**

	C	ZC	YA	YB	YC
140TC	23.63	2.64	0.47	0.20	0.67
180TC	23.82	2.83	0.69	0.22	0.93
210TC	26.83	5.85	0.69	0.22	0.89
250TC	26.81	5.82	0.94	0.20	1.13
280TC	27.61	6.62	0.94	0.20	1.30

NEMA MOTOR ADAPTER - 3 PIECE COUPLED — **Dimension - Inch**

	C	ZC	YA	YB	YC
140TC	27.42	6.52	0.55	0.20	1.10
180TC	28.58	7.68	0.87	0.22	1.65
210TC	30.59	9.69	0.87	0.22	2.01
250TC	32.58	11.67	0.94	0.20	2.17
280TC	35.28	14.37	0.94	0.20	2.57

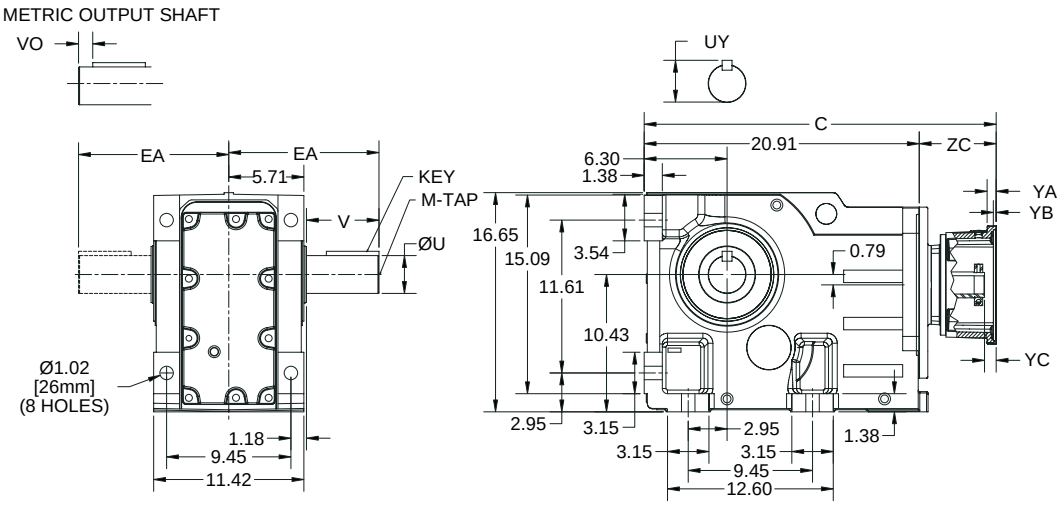
Refer to page Engineering-3 for Input Flange and Shaft details.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

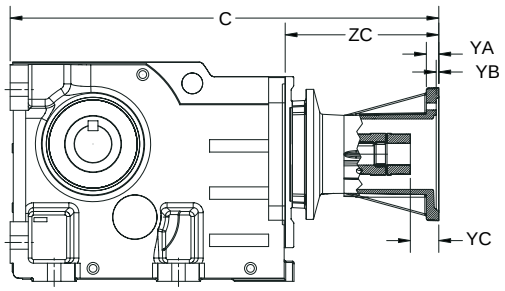
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB128

IEC C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft



CLAMP COLLAR



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB128

IEC C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft (cont)

STANDARD SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.875	+0.0000 -0.0010	3.21	5.51	-	3/4 x 3/4 x 4	3/4-10 UNC x 1.65	11.42
70	+0.035 +0.013	75	140	8	20 x 12 x 125	M20 x 42	290

OPTIONAL SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.625	+0.0000 -0.0010	4.01	6.69	-	7/8 x 7/8 x 5-5/8	1-8 UNC x 1.97	12.60
90	+0.035 +0.013	95	170	15	25 x 14 x 140	M24 x 50	320

IEC MOTOR ADAPTER - CLAMP COLLAR — **Dimension - Inch**

	C	ZC	YA	YB	YC
90D	23.11	2.20	0.61	0.18	0.61
100D	23.29	2.38	0.81	0.20	0.28
112D	23.52	2.62	0.75	0.20	0.28
132D	25.10	4.19	0.75	0.20	0.87
160D	26.83	5.93	0.98	0.24	0.79
180D	27.36	6.46	0.61	0.24	0.85
200D	27.76	6.85	0.98	0.24	1.18

IEC MOTOR ADAPTER - 3 PIECE COUPLED — **Dimension - Inch**

	C	ZC	YA	YB	YC
90D	27.34	6.43	0.67	0.18	1.02
100D	28.11	7.20	0.75	0.20	1.18
112D	27.97	7.07	0.75	0.20	1.18
132D	30.35	9.45	0.75	0.20	1.77
160D	33.01	12.10	1.18	0.24	2.60
180D	35.00	14.09	0.98	0.24	2.32
200D	35.04	14.13	0.98	0.24	2.36

Refer to page Engineering-4 for Input Flange and Shaft details.

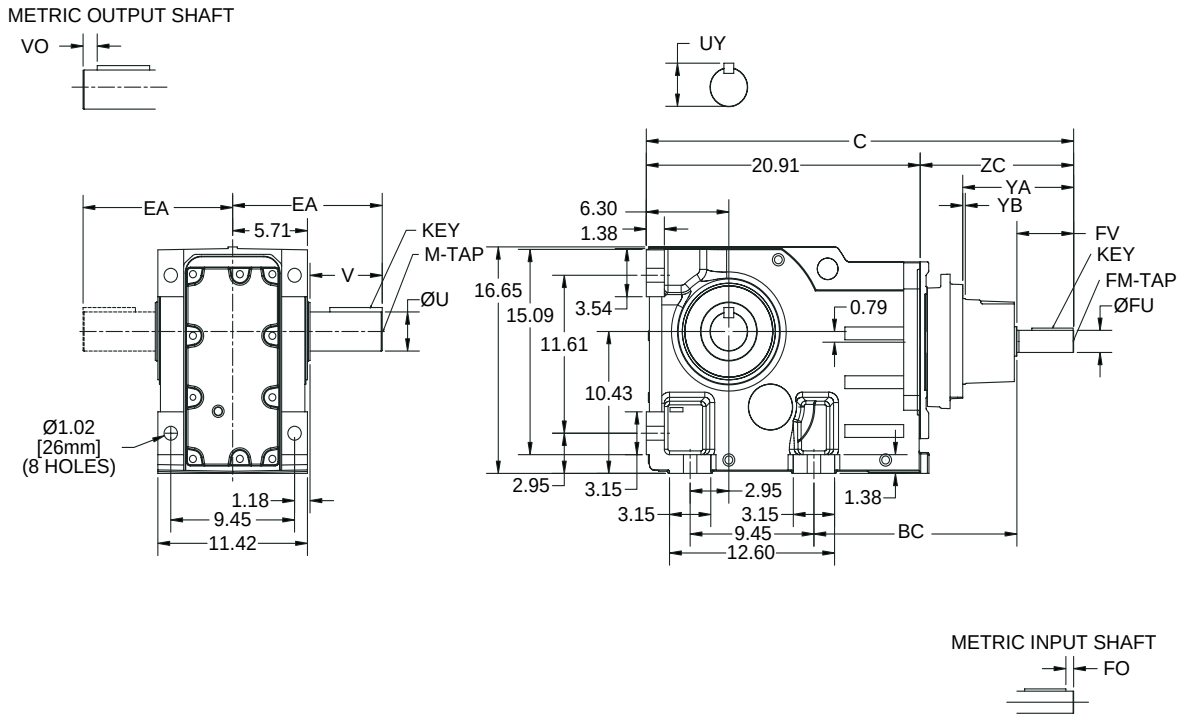
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB128

Separate - Foot Mounted
Solid Output Shaft



MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB128

Separate - Foot Mounted
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.875	+0.0000 -0.0010	3.21	5.51	-	3/4 x 3/4 x 4	3/4-10 UNC x 1.65	11.42
70	+0.035 +0.013	75	140	8	20 x 12 x 125	M20 x 42	290

OPTIONAL SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.625	+0.0000 -0.0010	4.01	6.69	-	7/8 x 7/8 x 5-5/8	1-8 UNC x 1.97	12.60
90	+0.035 +0.013	95	170	15	25 x 14 x 140	M24 x 50	320

SEPARATE INPUT **Dimension - Inch/MM**

	C	BC	ZC	FO	FM x Depth	ØFU	tol.	FV	YA	YB	Key
90	27.13 689	14.33 364	6.22 158	--- 5	5/16-18 UNC x 0.75 M8 x 19	0.875 24	+0.0000 -0.0005 +0.015 +0.002	1.97 50	2.80	0.16	3/16 x 3/16 x 1-5/8 8 x 7 x 40
100	27.64 702	14.84 377	6.73 171	--- 5	3/8-16 UNC x 0.87 M10 x 22	1.125 28	+0.0000 -0.0005 +0.015 +0.002	2.36 60	3.27	0.16	1/4 x 1/4 x 2 8 x 7 x 50
112	27.58 701	14.78 376	6.69 170	--- 5	3/8-16 UNC x 0.87 M10 x 22	1.250 28	+0.0000 +.0005 +0.015 +0.002	2.36 60	3.27	0.16	5/16 x 5/16 x 2-1/16 8 x 7 x 50
132	30.87 784	18.07 459	9.96 253	--- 5	3/8-16 UNC x 0.87 M12 x 28	1.375 38	+0.0000 +.0005 +0.018 +0.002	3.15 80	6.61	0.14	5/15 x 5/16 x 2-3/4 10 x 8 x 70
160	32.62 829	19.82 504	11.71 298	--- 10	5/8-11 UNC x 1.42 M16 x 36	1.625 42	+0.0000 +0.0010 +0.018 +0.002	4.33 110	8.46	0.20	3/8 x 3/8 x 3-1/2 12 x 8 x 90
180	33.43 849	20.63 524	12.52 318	--- 10	3/4-10 UNC x 1.65 M20 x 42	2.125 55	+0.0000 +0.0010 +0.021 +0.002	4.33 110	9.25	0.20	1/2 x 1/2 x 3-5/8 16 x 10 x 90

Refer to page Engineering-5 for Input Flange and Shaft details.

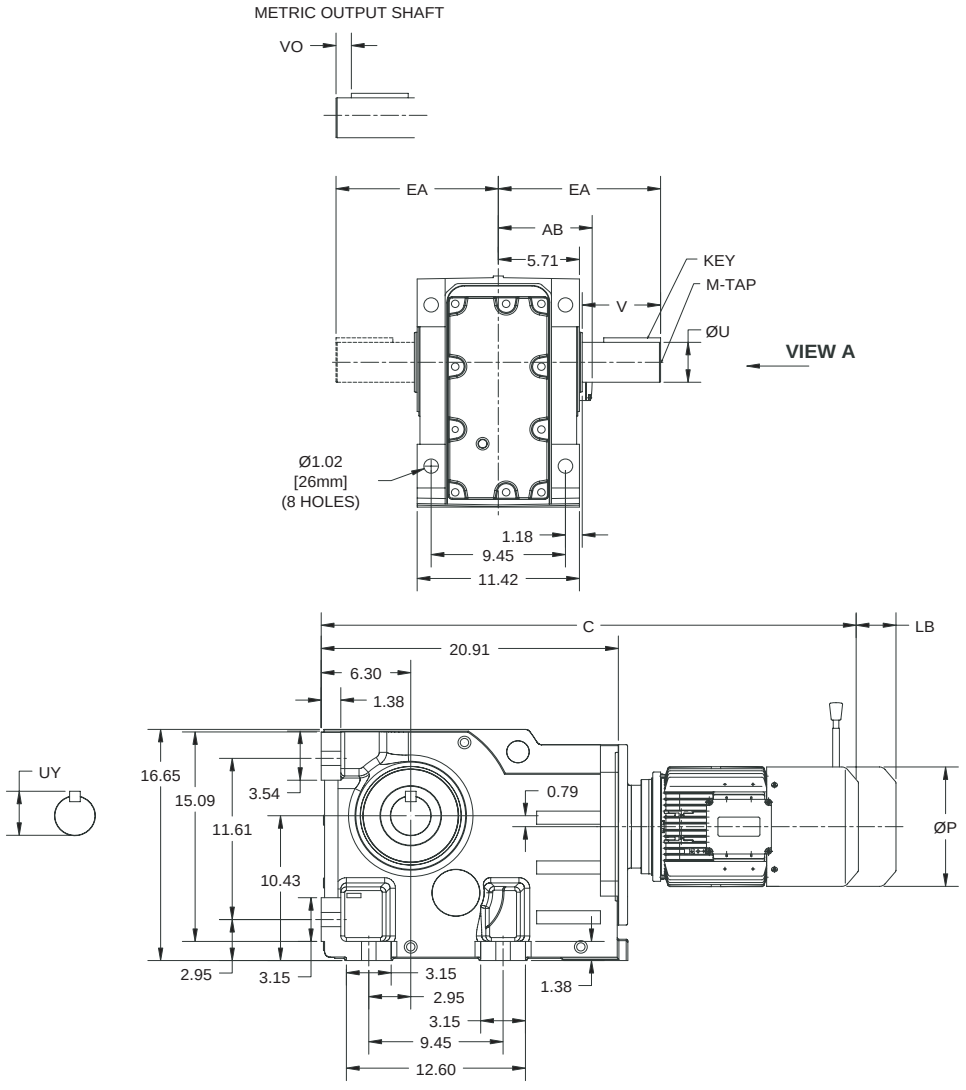
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB128

Integral Gearmotor - Foot Mounted
Solid Output Shaft



VIEW A

Due to variance in motor product offering, please contact Application Engineering for certified drawings.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB128

Integral Gearmotor - Foot Mounted
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.875	+0.0000 -0.0010	3.21	5.51	-	3/4 x 3/4 x 4	3/4-10 UNC x 1.65	11.42
70	+0.030 +0.011	75	140	15	20 x 12 x 125	M20 x 42	290

OPTIONAL SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.625	+0.0000 -0.0010	4.01	6.69	-	7/8 x 7/8 x 5-5/8	1-8 UNC x 1.97	12.60
90	+0.035 +0.013	95	170	15	25 x 14 x 140	M24 x 50	320

MOTOR **Dimension - Inch/MM**

Frame	C	LB	P	AB
90H4	30.30 770	2.52 64	6.93 176	5.83 148
90I4	31.28 795	2.52 64	6.93 176	5.83 148
100J4	32.97 838	2.91 74	7.72 196	6.54 166
112L4	33.56 853	2.91 74	8.66 220	6.73 176
132M4	38.09 968	3.90 99	9.69 246	7.40 188
132N4	38.09 968	3.90 99	9.69 246	7.40 188
160P4	42.54 1081	4.72 120	12.28 312	8.66 220
160Q4	42.54 1081	4.72 120	12.28 312	8.66 220
180R4	43.17 1097	5.41 137.5	14.17 360	10.63 270
180S4	44.67 1135	5.41 137.5	14.17 360	10.63 270
200T4	46.63 1185	5.41 137.5	14.17 360	10.63 270

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

IEC C-Face - Flange Mounted (B5 / B14) - Clamp Collar / 3 Piece Coupled Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.375	+0.000 -0.0010	2.65	4.72	-	5/8 x 5/8 x 3-11/16	3/4-10 UNC x 1.65	9.45
60	+0.030 +0.011	64	120	5	18 x 11 x 100	M20 x 42	240

OPTIONAL SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.1875	+0.000 -0.0010	3.52	6.69	-	3/4 x 3/4 x 5-3/8	3/4-10 UNC x 1.65	11.42
80	+0.030 +0.011	85	170	20	22 x 14 x 125	M20 x 42	290

IEC MOTOR ADAPTER - CLAMP COLLAR **Dimension - Inch**

	C	ZC	YA	YB	YC
80D	20.91	2.66	0.61	0.18	0.61
90D	20.91	2.66	0.61	0.18	0.61
100D	21.10	2.85	0.81	0.20	0.28
112D	21.32	3.07	0.75	0.20	0.28
132D	22.93	4.69	0.75	0.20	0.87
160D	24.63	6.38	0.98	0.24	0.79

IEC MOTOR ADAPTER - 3 PIECE COUPLED **Dimension - Inch**

	C	ZC	YA	YB	YC
80D	25.14	6.89	0.67	0.18	0.59
90D	25.14	6.89	0.67	0.18	1.02
100D	25.93	7.68	0.75	0.20	1.18
112D	25.77	7.52	0.75	0.20	1.18
132D	28.19	9.94	0.75	0.20	1.77
160D	30.81	12.56	1.18	0.24	2.60

Refer to page Engineering-4 for Input Flange and Shaft details.

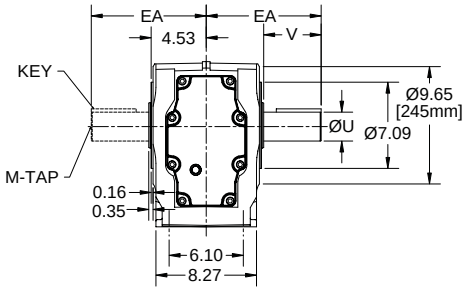
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

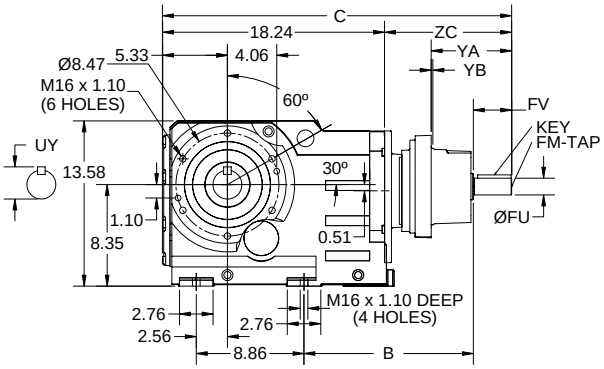
RIGHT ANGLE HELICAL BEVEL (RHB)

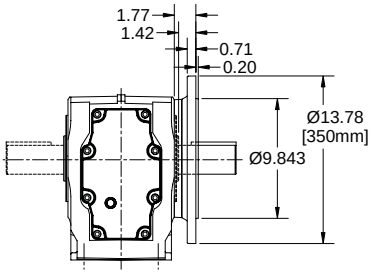
SIZE: BF108

Separate - Flange Mounted (B5 / B14)
Solid Output Shaft

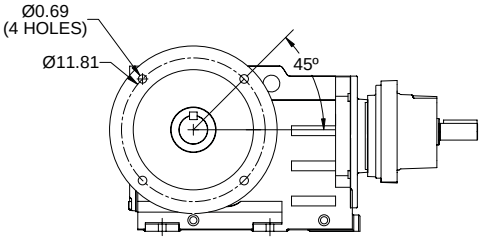


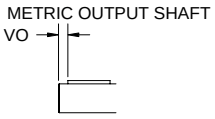
B14 OUTPUT FLANGE - Ø245mm

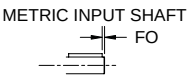




B5 OUTPUT FLANGE - Ø350mm







MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

Separate - Flange Mounted (B5 / B14)
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.375	+0.000 -0.0010	2.65	4.72	-	5/8 x 5/8 x 3-11/16	3/4-10 UNC x 1.65	9.45
60	+0.030 +0.011	64	120	5	18 x 11 x 100	M20 x 42	240

OPTIONAL SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.1875	+0.000 -0.0010	3.52	6.69	-	3/4 x 3/4 x 5-3/8	3/4-10 UNC x 1.65	11.42
80	+0.030 +0.011	85	170	20	22 x 14 x 125	M20 x 42	290

SEPARATE INPUT **Dimension - Inch/MM**

	C	BC	ZC	FO	FM x Depth	ØFU	tol.	FV	YA	YB	Key
80	24.53	12.89	6.28	---	1/4-20 UNC x 0.63	0.750	+0.0000 -0.0005	1.57	2.40	0.16	3/16 x 3/16 x 1-5/16
	623	328	160	4	M6 x 16	19	+0.015 +0.002	40			6 x 6 x 32
90	24.92	13.29	6.67	---	5/16-18 UNC x 0.75	0.875	+0.0000 -0.0005	1.97	2.80	0.16	3/16 x 3/16 x 1-5/8
	633	338	170	5	M8 x 19	24	+0.015 +0.002	40			8 x 7 x 40
100	25.45	13.82	7.20	---	3/8-16 UNC x 0.87	1.125	+0.0000 -0.0005	2.36	3.27	0.16	1/4/ x 1/4 x 2
	647	351	183	5	M10 x 22	28	+0.015 +0.002	60			8 x 7 x 50
112	25.37	13.74	7.13	---	3/8-16 UNC x 0.87	1.250	+0.0000 -0.0005	2.36	3.27	0.16	5/16 x 5/16 x 2-1/16
	645	349	181	5	M10 x 22	28	+0.015 +0.002	60			8 x 7 x 50
132	28.70	17.07	10.45	+++	3/8-16 UNC x 0.87	1.375	+0.0000 -0.0005	3.15	6.61	0.14	5/16 x 5/16 x 2-3/4
	729	434	266	5	M12 x 28	38	+0.018 +0.002	80			10 x 8 x 70
160	30.41	18.78	12.17	---	5/8-11 UNC x 1.42	1.625	+0.0000 -0.0010	4.33	8.46	0.20	3/8 x 3/8 x 3-1/2
	773	477	309	10	M16 x 36	42	+0.018 +0.002	110			12 x 8 x 90

Refer to page Engineering-5 for Input Flange and Shaft details.

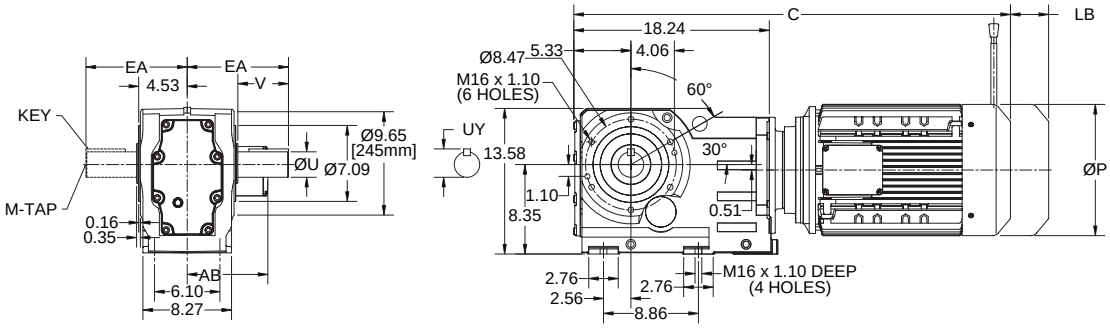
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

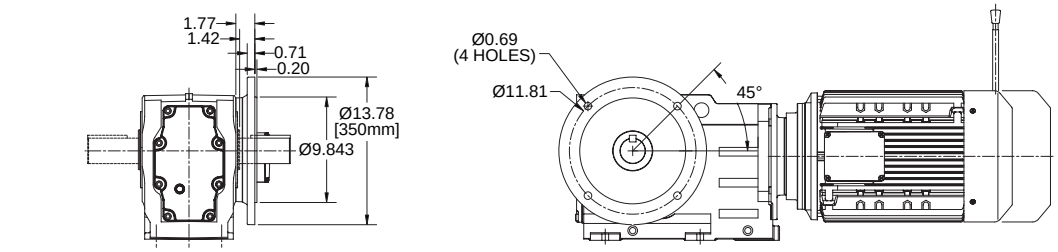
RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BF108

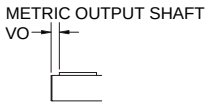
Integral Gearmotor - Flange Mounted (B5 / B14)
Solid Output Shaft



B14 OUTPUT FLANGE - Ø245mm



B5 OUTPUT FLANGE - Ø350mm



Due to variance in motor product offering, please contact Application Engineering for

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BF108

Integral Gearmotor - Flange Mounted (B5 / B14)
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.375	+0.000 -0.0010	2.65	4.72	-	5/8 x 5/8 x 3-11/16	3/4-10 UNC x 1.65	9.45
60	+0.030 +0.011	64	120	10	18 x 11 x 100	M20 x 42	240

OPTIONAL SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.1875	+0.000 -0.0010	3.52	6.69	-	3/4 x 3/4 x 5-3/8	3/4-10 UNC x 1.65	11.42
80	+0.030 +0.011	85	170	20	22 x 14 x 125	M20 x 42	290

MOTOR — **Dimension - Inch/MM**

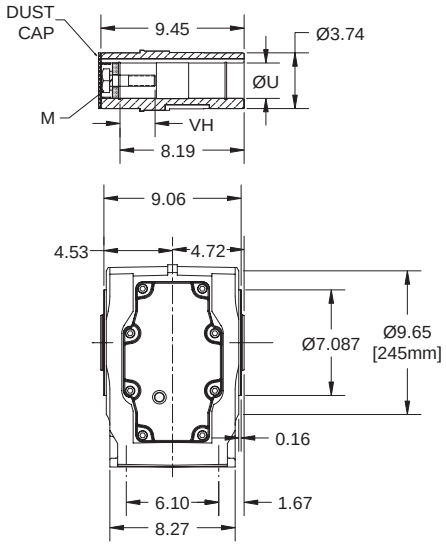
Frame	C	LB	P	AB
80G4	27.34 695	2.56 65	6.22 158	5.35 136
90H4	28.09 714	2.52 64	6.93 176	5.83 148
90I4	29.07 739	2.52 64	6.93 176	5.83 148
100J4	30.79 782	2.91 74	7.72 196	6.54 166
112L4	31.36 797	2.91 74	8.66 220	6.93 176
132M4	35.93 913	3.90 99	9.69 246	7.40 188
132N4	35.93 913	3.90 99	9.69 246	7.40 188
160P4	40.33 1025	4.72 120	12.28 312	8.66 220
160Q4	40.33 1025	4.72 120	12.28 312	8.66 220

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

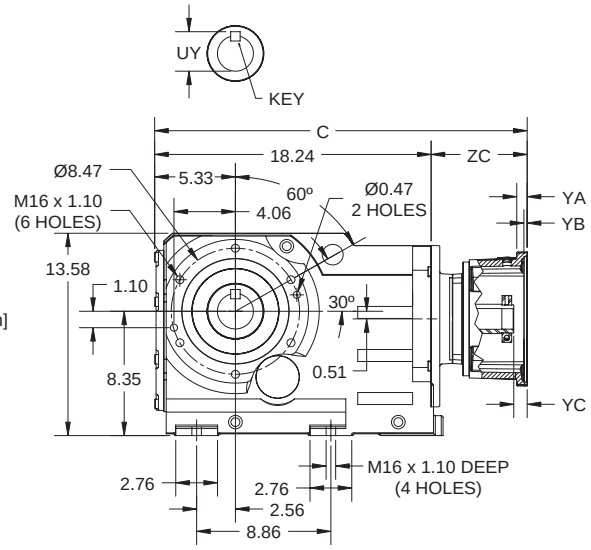
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

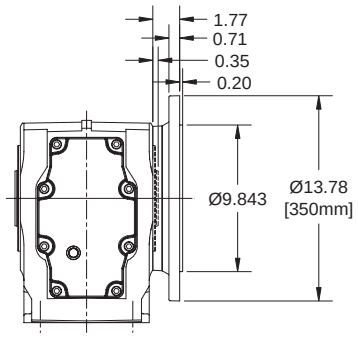
NEMA C-Face - Flange Mounted (B5 / B14) - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft



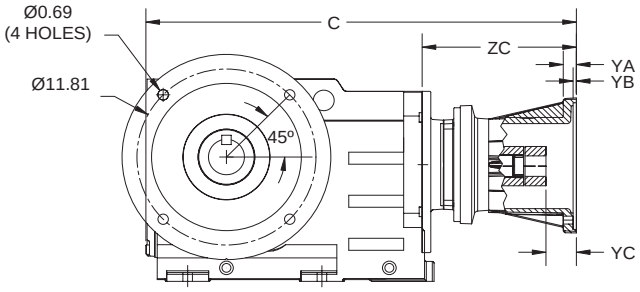
B14 OUTPUT FLANGE - Ø245mm



CLAMP COLLAR



B5 OUTPUT FLANGE - Ø350mm



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

NEMA C-Face - Flange Mounted (B5 / B14) - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.66	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
70	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

NEMA MOTOR ADAPTER - CLAMP COLLAR **Dimension - Inch**

	C	ZC	YA	YB	YC
140TC	21.41	3.09	0.47	0.20	0.67
180TC	21.63	3.31	0.69	0.22	0.93
210TC	24.66	6.34	0.69	0.22	0.89
250TC	24.60	6.28	0.94	0.20	1.13

NEMA MOTOR ADAPTER - 3 PIECE COUPLED **Dimension - Inch**

	C	ZC	YA	YB	YC
140TC	25.22	6.97	0.55	0.20	1.10
180TC	26.40	8.15	0.87	0.22	1.65
210TC	28.43	10.18	0.87	0.22	2.01
250TC	30.37	12.13	0.94	0.20	2.17

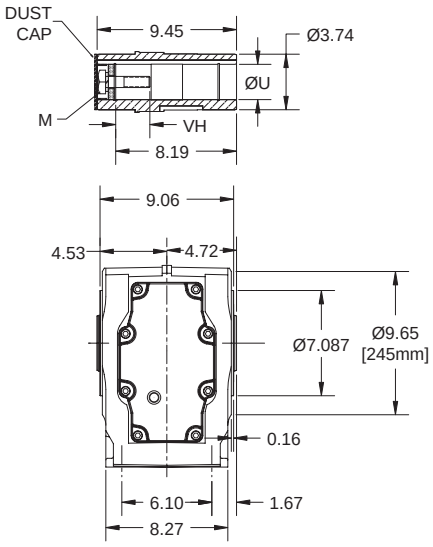
(H) See Footnote page on inside back cover

Refer to page Engineering-3 for Input Flange and Shaft details.
Refer to page RHB-355 for Twin Tapered Bushing details.

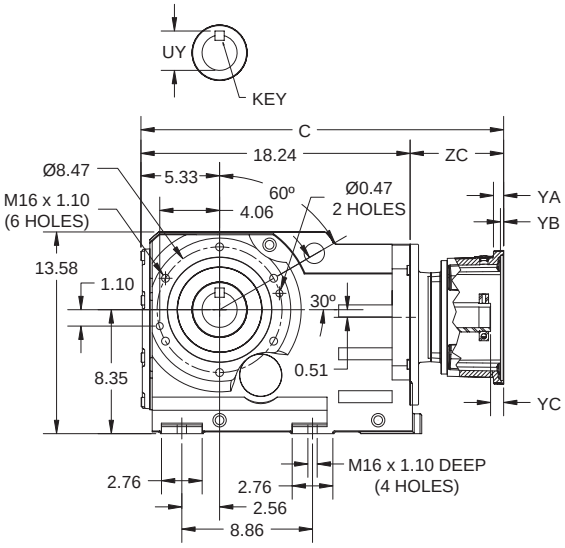
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

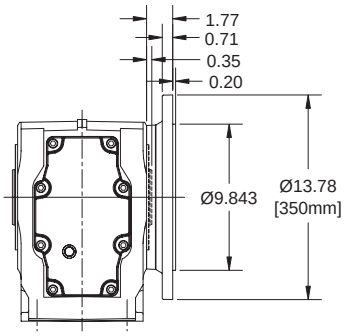
IEC C-Face - Flange Mounted (B5 / B14) - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft



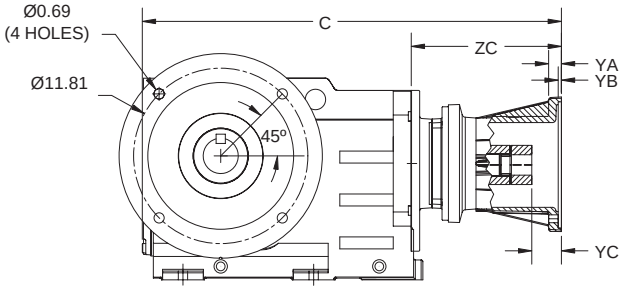
B14 OUTPUT FLANGE - Ø245mm



CLAMP COLLAR



B5 OUTPUT FLANGE - Ø350mm



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

IEC C-Face - Flange Mounted (B5 / B14) - Clamp Collar / 3 Piece Coupled
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.66	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
70	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

IEC MOTOR ADAPTER - CLAMP COLLAR **Dimension - Inch**

	C	ZC	YA	YB	YC
80D	20.91	2.66	0.61	0.18	0.61
90D	20.91	2.66	0.61	0.18	0.61
100D	21.10	2.85	0.81	0.20	0.28
112D	21.32	3.07	0.75	0.20	0.28
132D	22.93	4.69	0.75	0.20	0.87
160D	24.63	6.38	0.98	0.24	0.79

IEC MOTOR ADAPTER - 3 PIECE COUPLED **Dimension - Inch**

	C	ZC	YA	YB	YC
80D	25.14	6.89	0.67	0.18	0.59
90D	25.14	6.89	0.67	0.18	1.02
100D	25.93	7.68	0.75	0.20	1.18
112D	25.77	7.52	0.75	0.20	1.18
132D	28.19	9.94	0.75	0.20	1.77
160D	30.81	12.56	1.18	0.24	2.60

(H) See Footnote page on inside back cover

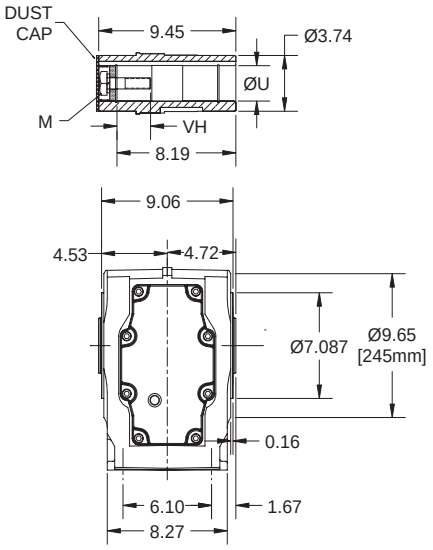
Refer to page Engineering-4 for Input Flange and Shaft details.
Refer to page RHB-355 for Twin Tapered Bushing details.

DIMENSIONS

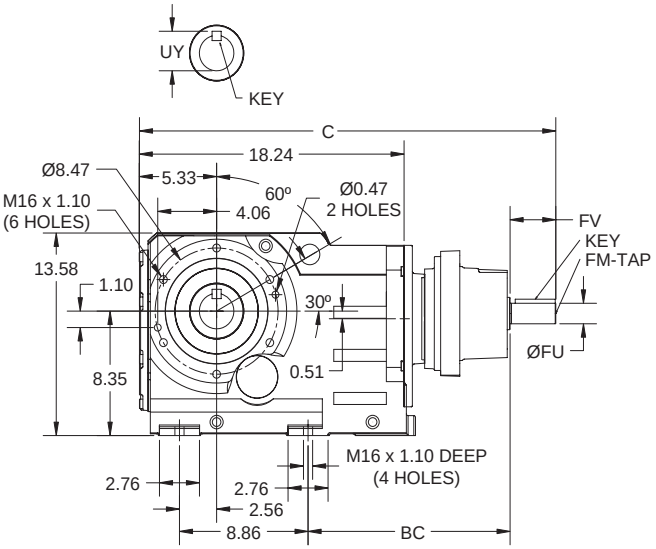
RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BF108

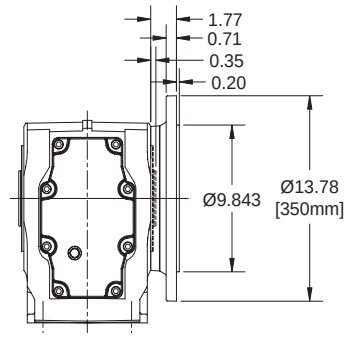
Separate - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft



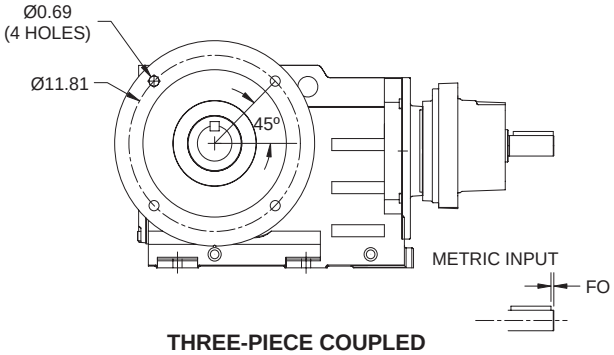
B14 OUTPUT FLANGE - Ø245mm



CLAMP COLLAR



B5 OUTPUT FLANGE - Ø350mm



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BF108

Separate - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.66	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
70	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

SEPARATE INPUT **Dimension - Inch/MM**

	C	BC	ZC	FO	FM x Depth	ØFU	tol.	FV	YA	YB	Key
80	24.53 623	12.89 328	6.28 160	--- 4	1/4-20 UNC x 0.63 M6 x 16	0.75 19	+0.0000 -0.0005 +0.015 +0.002	1.57 40	2.40	0.16	3/16 x 3/16 x 1-5/16 6 x 6 x 32
90	24.92 633	13.29 338	6.67 170	--- 5	5/16-18 UNC x 0.75 M8 x 19	0.875 24	+0.0000 -0.0005 +0.015 +0.002	1.97 40	2.80	0.16	3/16 x 3/16 x 1-5/8 8 x 7 x 40
100	25.45 647	13.82 351	7.20 183	--- 5	3/8-16 UNC x 0.87 M10 x 22	1.125 28	+0.0000 -0.0005 +0.015 +0.002	2.36 60	3.27	0.16	1/4/ x 1/4 x 2 8 x 7 x 50
112	25.37 645	13.74 349	7.13 181	--- 5	3/8-16 UNC x 0.87 M10 x 22	1.250 28	+0.0000 -0.0005 +0.015 +0.002	2.36 60	3.27	0.16	5/16 x 5/16 x 2-1/16 8 x 7 x 50
132	28.70 729	17.07 434	10.45 266	--- 5	3/8-16 UNC x 0.87 M12 x 28	1.375 38	+0.0000 -0.0005 +0.018 +0.002	3.15 80	6.61	0.14	5/16 x 5/16 x 2-3/4 10 x 8 x 70
160	30.41 773	18.78 477	12.17 309	--- 10	5/8-11 UNC x 1.42 M16 x 36	1.625 42	+0.0000 -0.0010 +0.018 +0.002	4.33 110	8.46	0.20	3/8 x 3/8 x 3-1/2 12 x 8 x 90

(H) See Footnote page on inside back cover

Refer to page Engineering-5 for Input Flange and Shaft details.
Refer to page RHB-355 for Twin Tapered Bushing details.

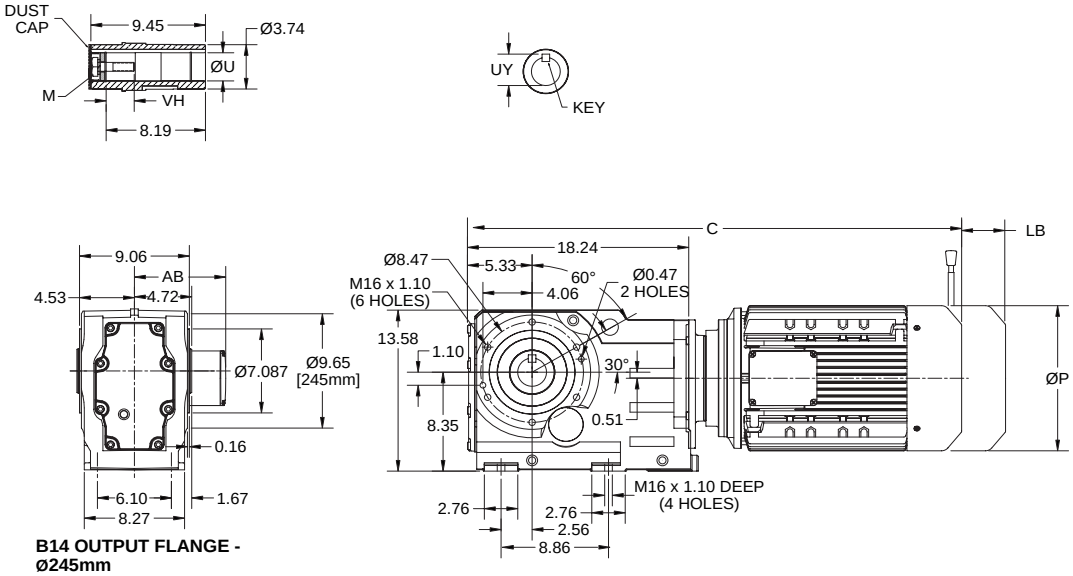
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

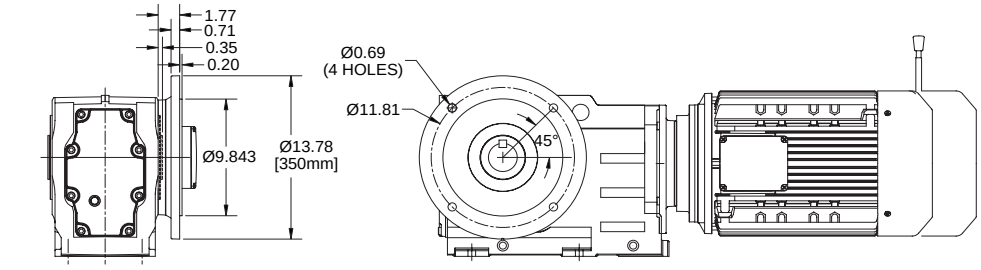
RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BF108

Integral Gearmotor - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft



B14 OUTPUT FLANGE - Ø245mm



B5 OUTPUT FLANGE - Ø350mm

Due to variance in motor product offering, please contact Application Engineering for certified drawings.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BF108

Integral Gearmotor - Flange Mounted (B5 / B14)
Straight Hollow Bore Output Shaft

STANDARD HOLLOW OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.375	+0.0012 +0.0004	2.65	2.53	5/8 x 5/8 x 4-1/16	3/4-10 x 3 UNC
60	+0.029 +0.010	64	68	18 x 11 x 100	M20 x 80

OPTIONAL HOLLOW OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	VH	KEY (H)	M
2.4375	+0.0012 +0.0004	2.72	2.51	5/8 x 5/8 x 4	3/4-10 x 3 UNC
70	+0.029 +0.010	75	67	20 x 12 x 110	M20 x 80

MOTOR — **Dimension - Inch/MM**

Frame	C	LB	P	AB
80G4	27.34 695	2.56 65	6.22 158	5.35 136
90H4	28.09 714	2.52 64	6.93 176	5.83 148
90I4	29.07 739	2.52 64	6.93 176	5.83 148
100J4	30.79 782	2.91 74	7.72 196	6.54 166
112L4	31.36 797	2.91 81	8.66 220	6.93 176
132M4	35.93 913	3.90 99	9.69 246	7.40 188
132N4	35.93 913	3.90 99	9.69 246	7.40 188
160P4	40.33 1025	4.72 120	12.28 312	8.66 220
160Q4	40.33 1025	4.72 120	12.28 312	8.66 220

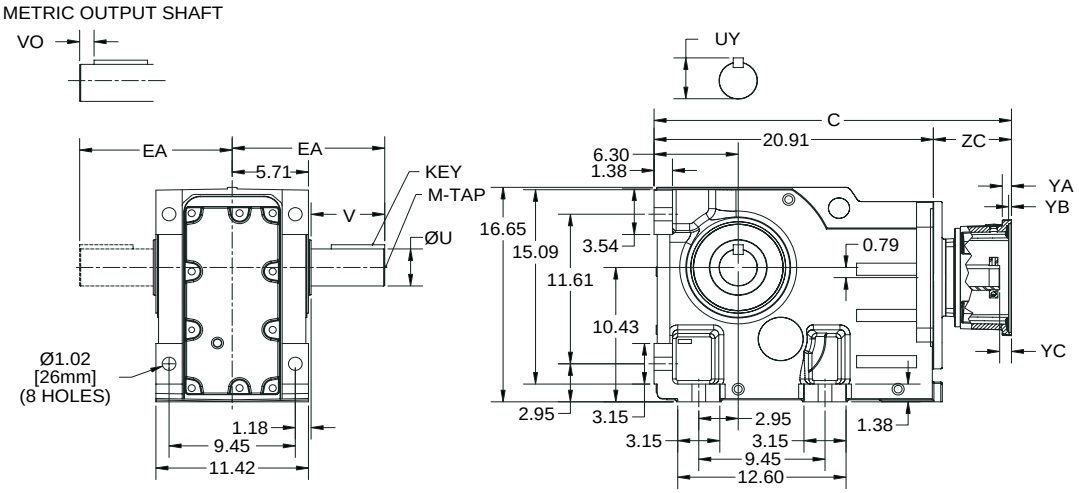
(H) See Footnote page on inside back cover

Refer to page RHB-355 for Twin Tapered Bushing details.

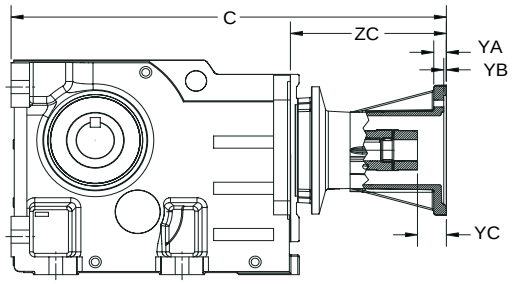
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB128

NEMA C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft



CLAMP COLLAR



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB128

NEMA C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.875	+0.0000 -0.0010	3.21	5.51	-	3/4 x 3/4 x 4	3/4-10 UNC x 1.65	11.42
70	+0.035 +0.013	75	140	8	20 x 12 x 125	M20 x 42	290

OPTIONAL SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.625	+0.0000 -0.0010	4.01	6.69	-	7/8 x 7/8 x 5-5/8	1-8 UNC x 1.97	12.60
90	+0.035 +0.013	95	170	15	25 x 14 x 140	M24 x 50	320

NEMA MOTOR ADAPTER - CLAMP COLLAR — **Dimension - Inch**

	C	ZC	YA	YB	YC
140TC	23.63	2.64	0.47	0.20	0.67
180TC	23.82	2.83	0.69	0.22	0.93
210TC	26.83	5.85	0.69	0.22	0.89
250TC	26.81	5.82	0.94	0.20	1.13
280TC	27.61	6.62	0.94	0.20	1.30

NEMA MOTOR ADAPTER - 3 PIECE COUPLED — **Dimension - Inch**

	C	ZC	YA	YB	YC
140TC	27.42	6.52	0.55	0.20	1.10
180TC	28.58	7.68	0.87	0.22	1.65
210TC	30.59	9.69	0.87	0.22	2.01
250TC	32.58	11.67	0.94	0.20	2.17
280TC	35.28	14.37	0.94	0.20	2.57

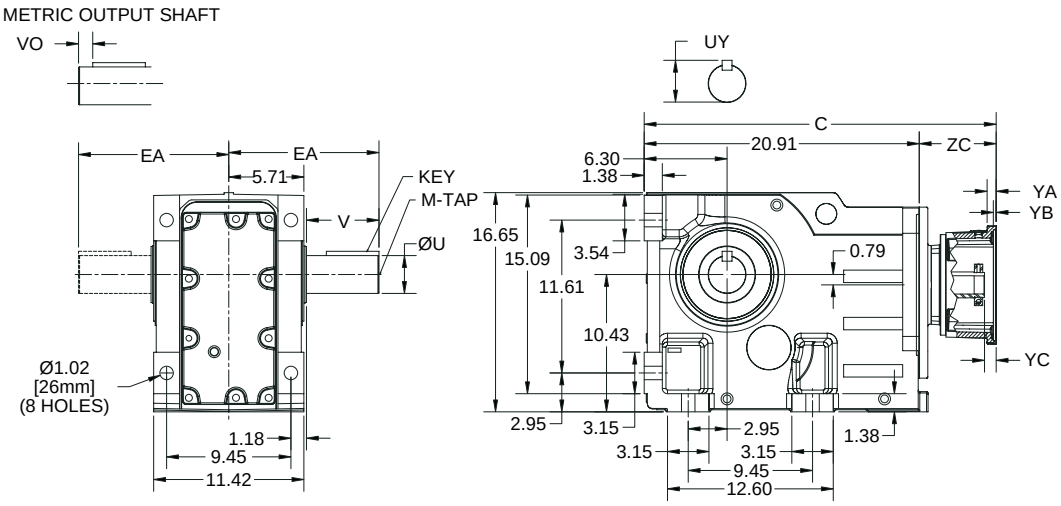
Refer to page Engineering-3 for Input Flange and Shaft details.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

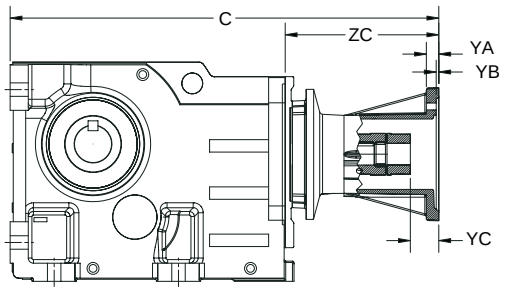
DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB128

IEC C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft



CLAMP COLLAR



THREE-PIECE COUPLED

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB128

IEC C-Face - Foot Mounted - Clamp Collar / 3 Piece Coupled
Solid Output Shaft (cont)

STANDARD SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.875	+0.0000 -0.0010	3.21	5.51	-	3/4 x 3/4 x 4	3/4-10 UNC x 1.65	11.42
70	+0.035 +0.013	75	140	8	20 x 12 x 125	M20 x 42	290

OPTIONAL SOLID OUTPUT SHAFT — **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.625	+0.0000 -0.0010	4.01	6.69	-	7/8 x 7/8 x 5-5/8	1-8 UNC x 1.97	12.60
90	+0.035 +0.013	95	170	15	25 x 14 x 140	M24 x 50	320

IEC MOTOR ADAPTER - CLAMP COLLAR — **Dimension - Inch**

	C	ZC	YA	YB	YC
90D	23.11	2.20	0.61	0.18	0.61
100D	23.29	2.38	0.81	0.20	0.28
112D	23.52	2.62	0.75	0.20	0.28
132D	25.10	4.19	0.75	0.20	0.87
160D	26.83	5.93	0.98	0.24	0.79
180D	27.36	6.46	0.61	0.24	0.85
200D	27.76	6.85	0.98	0.24	1.18

IEC MOTOR ADAPTER - 3 PIECE COUPLED — **Dimension - Inch**

	C	ZC	YA	YB	YC
90D	27.34	6.43	0.67	0.18	1.02
100D	28.11	7.20	0.75	0.20	1.18
112D	27.97	7.07	0.75	0.20	1.18
132D	30.35	9.45	0.75	0.20	1.77
160D	33.01	12.10	1.18	0.24	2.60
180D	35.00	14.09	0.98	0.24	2.32
200D	35.04	14.13	0.98	0.24	2.36

Refer to page Engineering-4 for Input Flange and Shaft details.

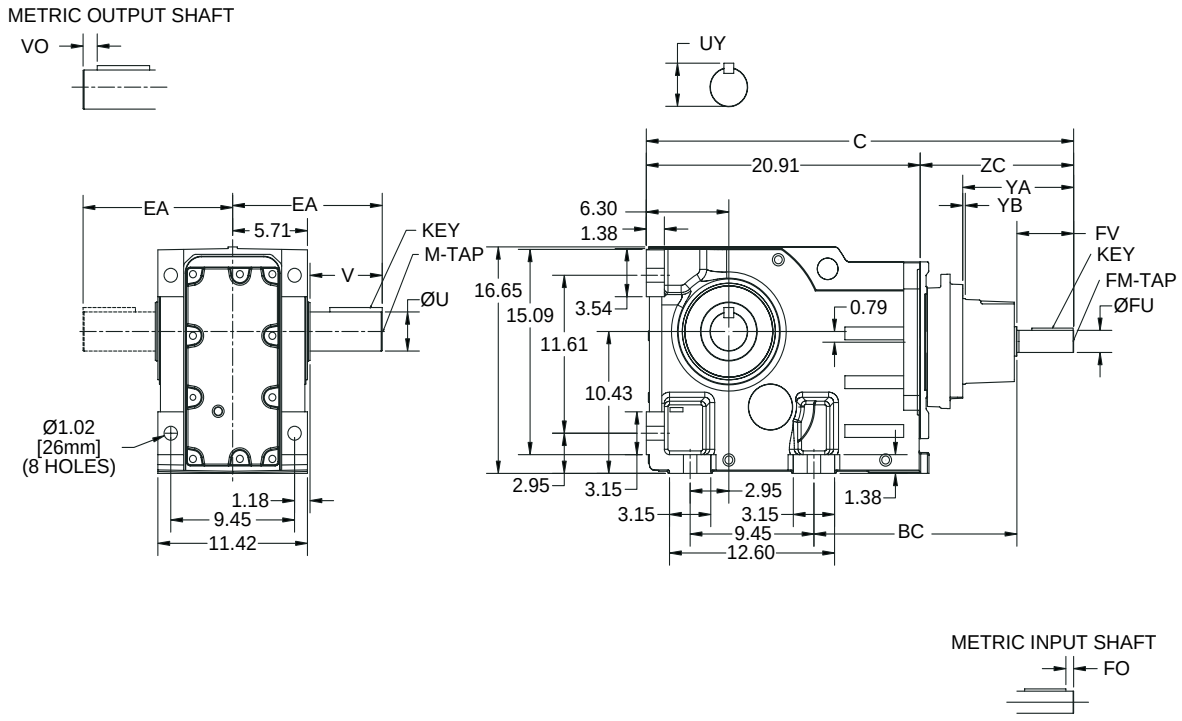
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB128

Separate - Foot Mounted
Solid Output Shaft



MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB128

Separate - Foot Mounted
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.875	+0.0000 -0.0010	3.21	5.51	-	3/4 x 3/4 x 4	3/4-10 UNC x 1.65	11.42
70	+0.035 +0.013	75	140	8	20 x 12 x 125	M20 x 42	290

OPTIONAL SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.625	+0.0000 -0.0010	4.01	6.69	-	7/8 x 7/8 x 5-5/8	1-8 UNC x 1.97	12.60
90	+0.035 +0.013	95	170	15	25 x 14 x 140	M24 x 50	320

SEPARATE INPUT **Dimension - Inch/MM**

	C	BC	ZC	FO	FM x Depth	ØFU	tol.	FV	YA	YB	Key
90	27.13 689	14.33 364	6.22 158	--- 5	5/16-18 UNC x 0.75 M8 x 19	0.875 24	+0.0000 -0.0005 +0.015 +0.002	1.97 50	2.80	0.16	3/16 x 3/16 x 1-5/8 8 x 7 x 40
100	27.64 702	14.84 377	6.73 171	--- 5	3/8-16 UNC x 0.87 M10 x 22	1.125 28	+0.0000 -0.0005 +0.015 +0.002	2.36 60	3.27	0.16	1/4 x 1/4 x 2 8 x 7 x 50
112	27.58 701	14.78 376	6.69 170	--- 5	3/8-16 UNC x 0.87 M10 x 22	1.250 28	+0.0000 +.0005 +0.015 +0.002	2.36 60	3.27	0.16	5/16 x 5/16 x 2-1/16 8 x 7 x 50
132	30.87 784	18.07 459	9.96 253	--- 5	3/8-16 UNC x 0.87 M12 x 28	1.375 38	+0.0000 +.0005 +0.018 +0.002	3.15 80	6.61	0.14	5/15 x 5/16 x 2-3/4 10 x 8 x 70
160	32.62 829	19.82 504	11.71 298	--- 10	5/8-11 UNC x 1.42 M16 x 36	1.625 42	+0.0000 +0.0010 +0.018 +0.002	4.33 110	8.46	0.20	3/8 x 3/8 x 3-1/2 12 x 8 x 90
180	33.43 849	20.63 524	12.52 318	--- 10	3/4-10 UNC x 1.65 M20 x 42	2.125 55	+0.0000 +0.0010 +0.021 +0.002	4.33 110	9.25	0.20	1/2 x 1/2 x 3-5/8 16 x 10 x 90

Refer to page Engineering-5 for Input Flange and Shaft details.

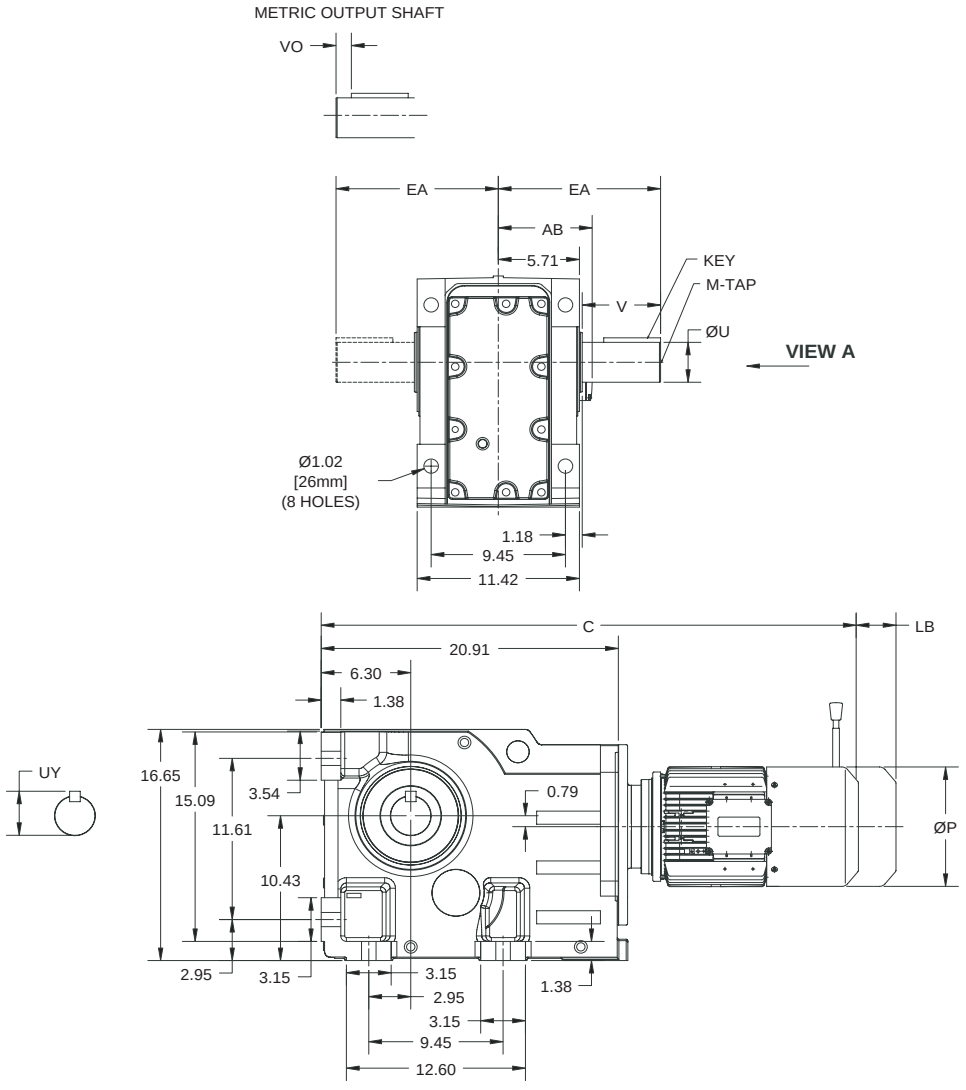
MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB)

SIZE: BB128

Integral Gearmotor - Foot Mounted
Solid Output Shaft



VIEW A

Due to variance in motor product offering, please contact Application Engineering for certified drawings.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

DIMENSIONS

RIGHT ANGLE HELICAL BEVEL (RHB) SIZE: BB128

Integral Gearmotor - Foot Mounted
Solid Output Shaft

STANDARD SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
2.875	+0.0000 -0.0010	3.21	5.51	-	3/4 x 3/4 x 4	3/4-10 UNC x 1.65	11.42
70	+0.030 +0.011	75	140	15	20 x 12 x 125	M20 x 42	290

OPTIONAL SOLID OUTPUT SHAFT **Dimension - Inch/MM**

ØU	tol.	UY	V	VO	KEY	M-TAP x DEPTH	EA
3.625	+0.0000 -0.0010	4.01	6.69	-	7/8 x 7/8 x 5-5/8	1-8 UNC x 1.97	12.60
90	+0.035 +0.013	95	170	15	25 x 14 x 140	M24 x 50	320

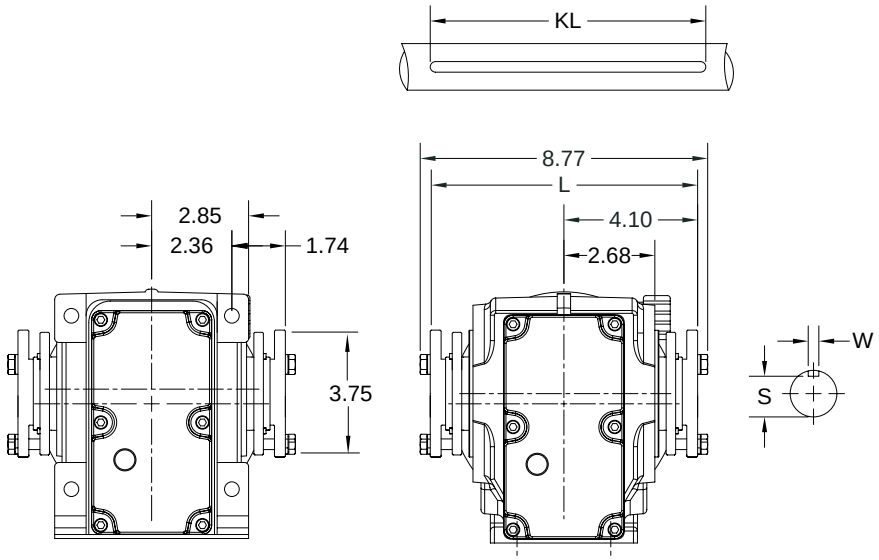
MOTOR **Dimension - Inch/MM**

Frame	C	LB	P	AB
90H4	30.30 770	2.52 64	6.93 176	5.83 148
90I4	31.28 795	2.52 64	6.93 176	5.83 148
100J4	32.97 838	2.91 74	7.72 196	6.54 166
112L4	33.56 853	2.91 74	8.66 220	6.73 176
132M4	38.09 968	3.90 99	9.69 246	7.40 188
132N4	38.09 968	3.90 99	9.69 246	7.40 188
160P4	42.54 1081	4.72 120	12.28 312	8.66 220
160Q4	42.54 1081	4.72 120	12.28 312	8.66 220
180R4	43.17 1097	5.41 137.5	14.17 360	10.63 270
180S4	44.67 1135	5.41 137.5	14.17 360	10.63 270
200T4	46.63 1185	5.41 137.5	14.17 360	10.63 270

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION REDUCER PAGE RHB-17	SELECTION GEARMOTORS PAGE RHB-49

SELECTION/DIMENSIONS

RIGHT ANGLE HELICAL BEVEL REDUCER (RHB) SIZE: B_48
Twin Tapered Bushing



BB48 BF48

Part Number	RHB Size 48	Bore	Weight (lbs)	L	Part Number	RHB Size 48	Bore	Weight (lbs)	L	Shaft Keyseat		
										W	S	KL (3)
092593	Standard (1)	1.5000”	3.3	8.18”	---	---	---	---		0.375”	1.289”	8.1875”
092594	Standard	1.4375”	3.6		**092607**	Short Shaft (2)	1.4375”	3.7	5.66”	0.375”	1.225”	
092595	Standard	1.3750”	3.5		**092608**	Short Shaft	1.3750”	4.1		0.3125”	1.201”	
092596	Standard	1.3125”	3.8		**092609**	Short Shaft	1.3125”	4.0		0.3125”	1.137”	
092597	Standard	1.2500”	3.7		**092610**	Short Shaft	1.2500”	4.1		0.25”	1.112”	
092598	Standard	1.1875”	3.8		**092611**	Short Shaft	1.1875”	4.2		0.25”	1.049”	
092599	Standard	1.1250”	4.0		**092612**	Short Shaft	1.1250”	4.4		0.25”	0.986”	
092600	Standard	1.0625”	4.0		**092613**	Short Shaft	1.0625”	4.5		0.25”	0.923”	
092601	Standard	1.0000”	4.2		**092614**	Short Shaft	1.0000”	4.7		0.25”	0.859’	
092602	Standard	40 MM	3.3		**---**	---	---	---		12 mm	35 mm	
092603	Standard	38 MM	3.3		**---**	---	---	---		12 mm	33 mm	
092604	Standard	35 MM	3.6		**092615**	Short Shaft	35 MM	3.9	5.66”	10 mm	30 mm	
092605	Standard	32 MM	3.8		**092616**	Short Shaft	32 MM	4.2		10 mm	27 mm	
092606	Standard	30 MM	3.8		**092617**	Short Shaft	30 MM	4.3		8 mm	26 mm	

(1) - Standard Shaft Bushing Kit includes two standard bushings with two back-up plates and snap rings; hardware, and key.
(2) - Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market short shaft mounting.
(3) - Standard key provided for Short Shaft Kit. Key will overhang customer shaft within bore.
(---) - Bore Size not available.

Shaded Bore Sizes are Standard Non-Stock.

MOUNTING POSITIONS PAGE RHB-7	SELECTION OIL QUANTITIES PAGE RHB-7	SELECTION GEARMOTORS PAGE RHB-49	DIMENSIONS PAGE RHB-92