

Competitive Conversion Focus

Yaskawa's Sigma 5 motor and drive solutions using 1) analog or 2) pulse & direction for control
 Rockwell's Kinetix 300 & 350 drives with the MPL Servo Motors using 1) analog, 2) pulse & direction or 3) Ethernet/IP for control

Bundled Solutions

Kollmorgen's Bundled Package includes AKD motion tasking drive, AKM motor and 6 meter Value Line power and feedback cables
 The Ethernet/IP version of the AKD motion tasking drive comes with the Rockwell bundles. AKM motors come with SFD feedback

Sigma 5 Drives - 100 VAC and 200 VAC - low inertia motors

	Yaskawa Drive Model	Yaskawa Motor Model	KM Bundled Part Number
1 Link	SGDV-2R8F01	SGMAV-04A	KMBNDL-YAS01
2 Link	SGDV-2R8A01	SGMAV-04A	KMBNDL-YAS02
3 Link	SGDV-5R5A01	SGMAV-06A	KMBNDL-YAS03
4 Link	SGDV-5R5A01	SGMAV-08A	KMBNDL-YAS04
5 Link	SGDV-120A01	SGMAV-10A	KMBNDL-YAS05

Sigma 5 Drives - 200 VAC - medium inertia motors

	Yaskawa Drive Model	Yaskawa Motor Model	KM Bundled Part Number
6 Link	SGDV-3R8A01	SGMGV-03A	KMBNDL-YAS06
7 Link	SGDV-3R8A01	SGMGV-05A	KMBNDL-YAS07
8 Link	SGDV-7R6A01	SGMGV-09A	KMBNDL-YAS08
9 Link	SGDV-120A01	SGMGV-13A	KMBNDL-YAS09

Sigma 5 Drives - 400 VAC

	Yaskawa Drive Model	Yaskawa Motor Model	KM Bundled Part Number
10 Link	SGDV-1R9D01	SGMGV-03D	KMBNDL-YAS10
11 Link	SGDV-1R9D01	SGMGV-05D	KMBNDL-YAS11
12 Link	SGDV-3R5D01	SGMGV-09D	KMBNDL-YAS12
13 Link	SGDV-5R4D01	SGMGV-13D	KMBNDL-YAS13

Kinetix 300 & 350 Drives - Ethernet /IP - 240 VAC

	Rockwell Drive Model	Rockwell Motor Model	KM Bundled Part Number
14 Link	2097-V32PR0 (-LM)	MPL-A1520U	KMBNDL-AB01
15 Link	2097-V32PR2 (-LM)	MPL-A1530U	KMBNDL-AB02
16 Link	2097-V32PR2 (-LM)	MPL-A220T	KMBNDL-AB03
17 Link	2097-V32PR4 (-LM)	MPL-A320P	KMBNDL-AB04

Kinetix 300 & 350 Drives - Ethernet /IP - 480 VAC

	Rockwell Drive Model	Rockwell Motor Model	KM Bundled Part Number
18 Link	2097-V34PR3 (-LM)	MPL-B1530U	KMBNDL-AB05
19 Link	2097-V34PR5 (-LM)	MPL-B220T	KMBNDL-AB06
20 Link	2097-V34PR5 (-LM)	MPL-B320P	KMBNDL-AB07
21 Link	2097-V34PR6 (-LM)	MPL-B420P	KMBNDL-AB08

Note: -LM at the end of the part number signifies Kinetix 350 drives. It is important to figure out if CIP Motion technology is being utilized. If the customer is using, CIP Motion, then the AKD drive with Ethernet I/P will not work and these crossovers are not applicable.

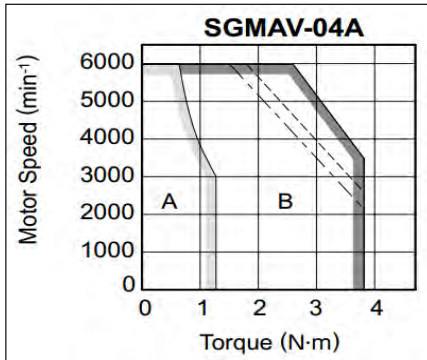
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1) Yaskawa SGMAV-04A / SGDV-2R8F01

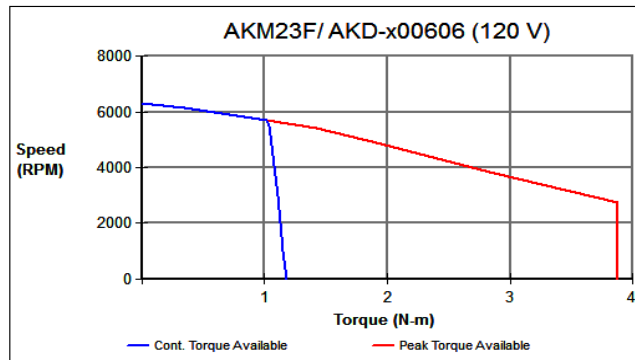
		Yaskawa SGMAV-04A	Kollmorgen AKM23F-KCNC-00
Winding Data			
Cont Stall Torque	Nm	1.27	1.18
Cont Current	Arms	2.6	4.31
Peak Stall Torque	Nm	3.82	3.88
Peak Current	Arms	8.5	17.2
Max Speed	RPM	6000	8000
Rotor Inertia	kg-cm ²	0.19	0.22
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	60	58
Bolt Circle Dia	mm	70	70
Pilot Diameter	mm	50	50
Shaft Dia	mm	14	14
Shaft Length	mm	25	30
Key Width	mm	5	5
Key Length	mm	14	20
Shaft End Thrd Holes	-	M5	N/A
Length (Std FB, no brake)	mm	128.5	105.2
BC Thru Holes	mm	5.5	5.8
Weight	kg	1.2	1.38

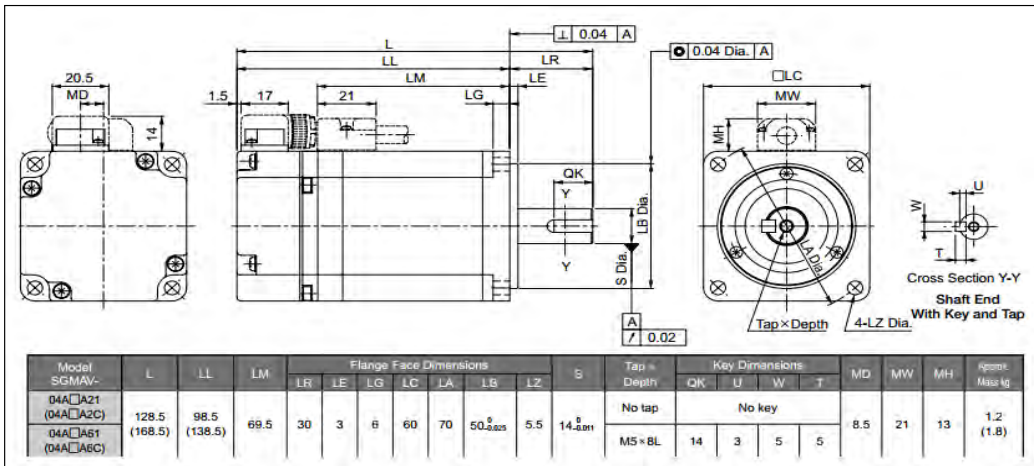
		Yaskawa SGDV-2R8F01	Kollmorgen AKD-P00606-NBAN-0000
Power			
RMS Continuous Current	Arms	2.8	6
RMS Peak Current	Arms	9.3	18
Input Voltage	VAC	100-115 (1ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	156
Width	mm	70	59
Height	mm	160	168
Weight	kg	1.1	1.1

Speed/Torque Comparison (110/115 VAC)

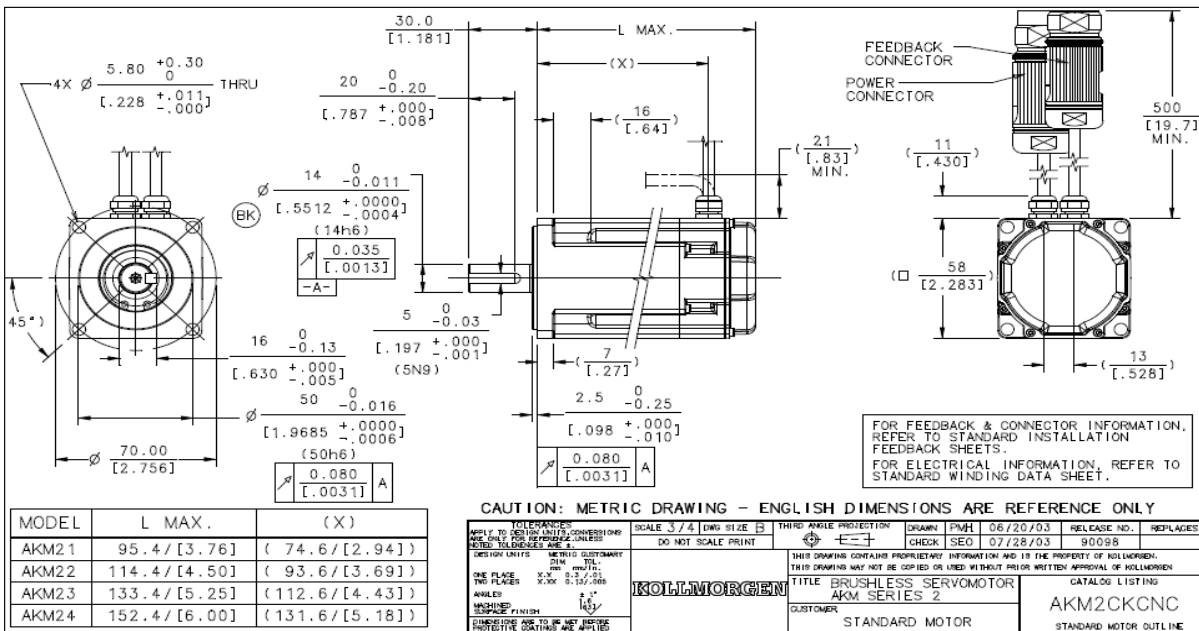


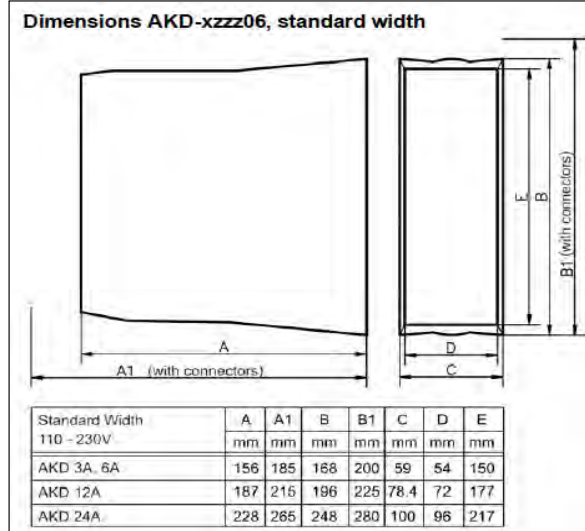
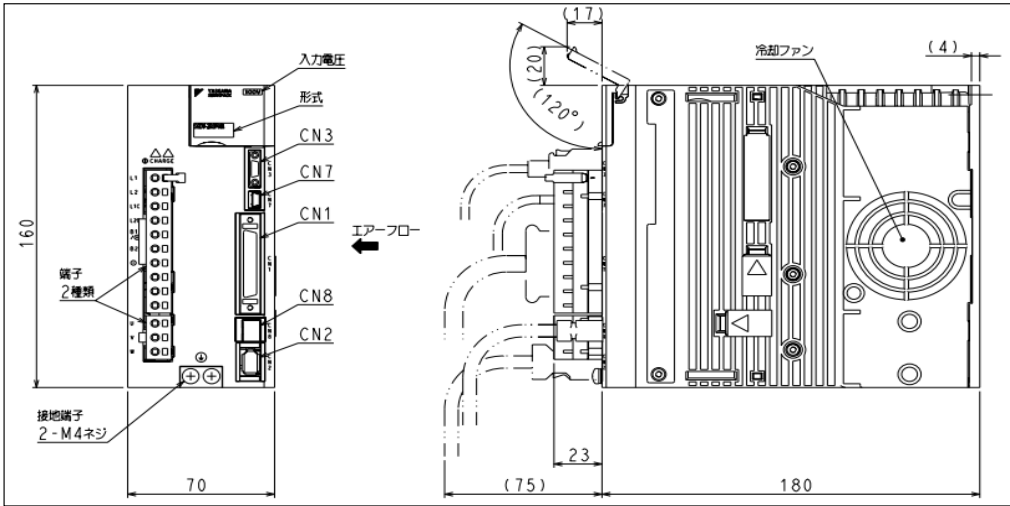
*Dotted Line is 110 VAC





Servomotor Model	LR mm
A5A	20
01A	
C2A	
02A	25
04A	
06A	
08A	35
10A	



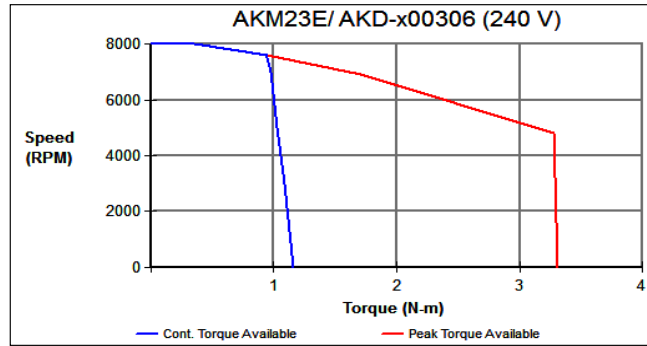
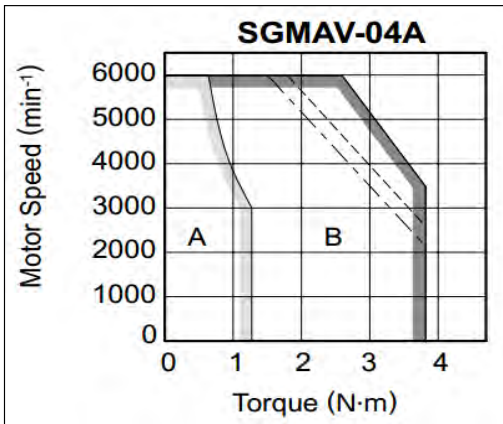


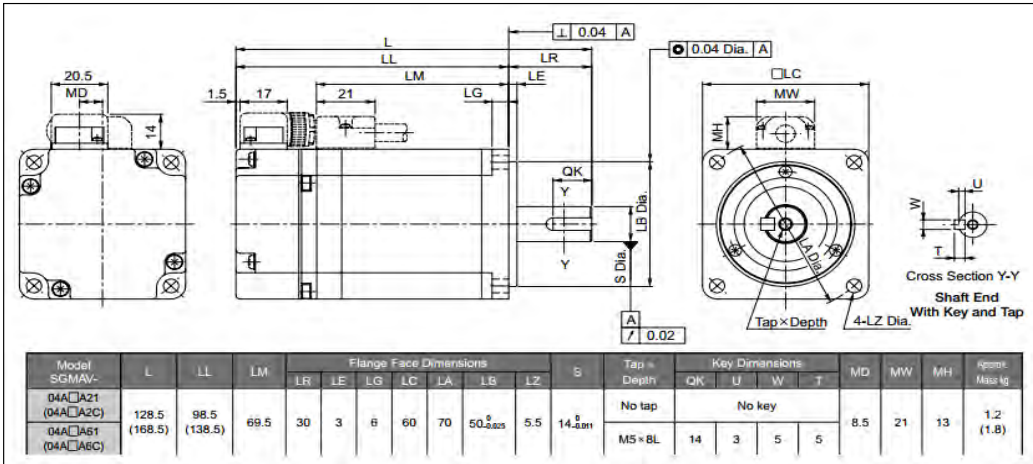
2) Yaskawa SGMAV-04A / SGD V-2R8A01

		Yaskawa SGMAV-04A	Kollmorgen AKM23E-KCNC-00
Winding Data			
Cont Stall Torque	Nm	1.27	1.16
Cont Current	Arms	2.6	2.78
Peak Stall Torque	Nm	3.82	3.86
Peak Current	Arms	8.5	11.1
Max Speed	RPM	6000	8000
Rotor Inertia	kg-cm ²	0.19	0.22
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	60	58
Bolt Circle Dia	mm	70	70
Pilot Diameter	mm	50	50
Shaft Dia	mm	14	14
Shaft Length	mm	25	30
Key Width	mm	5	5
Key Length	mm	14	20
Shaft End Thrd Holes	-	M5	N/A
Length (Std FB, no brake)	mm	128.5	105.2
BC Thru Holes	mm	5.5	5.8
Weight	kg	1.2	1.38

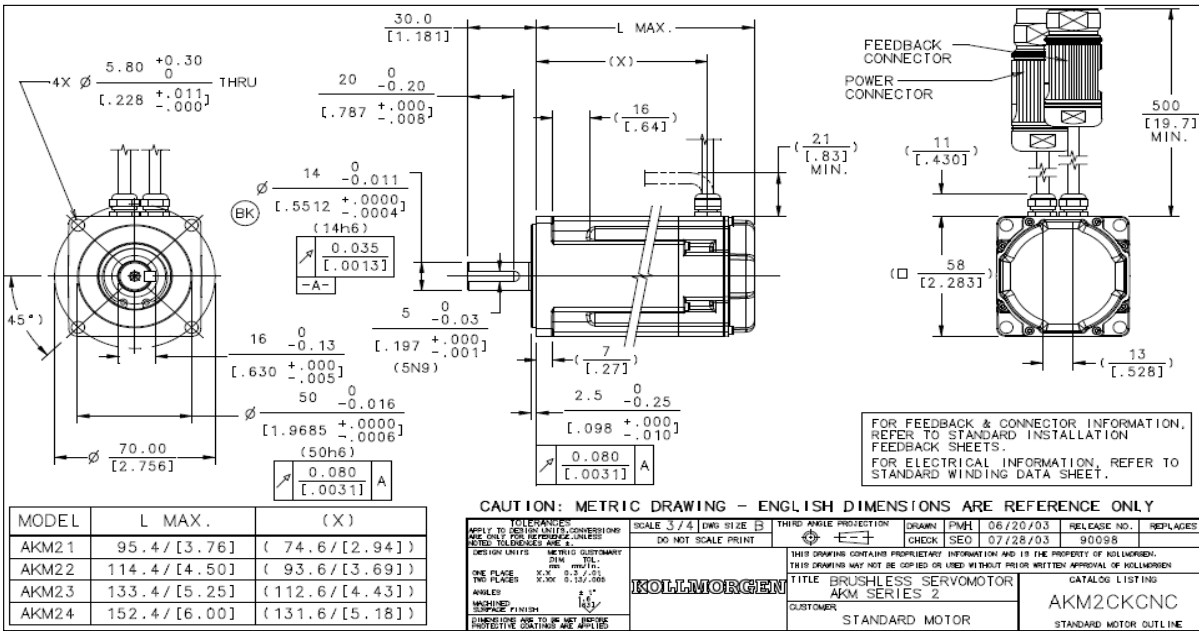
		Yaskawa SGDV-2R8A01	Kollmorgen AKD-P00306-NBAN-0000
Power			
RMS Continuous Current	Arms	2.8	3
RMS Peak Current	Arms	9.3	9
Input Voltage	VAC	200-230 (3ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	156
Width	mm	70	59
Height	mm	160	168
Weight	kg	1.0	1.1

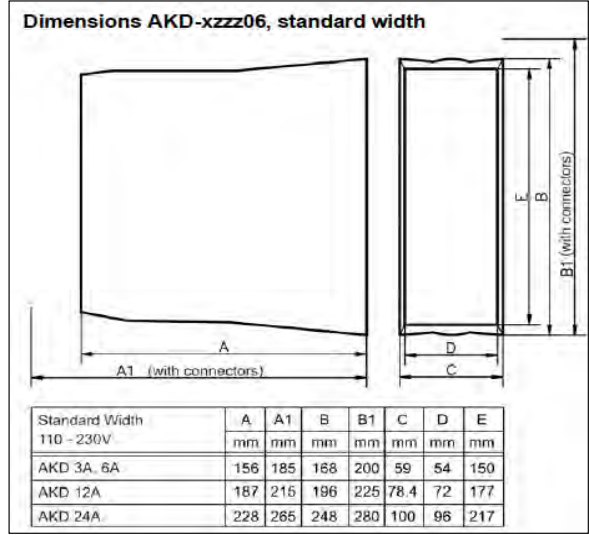
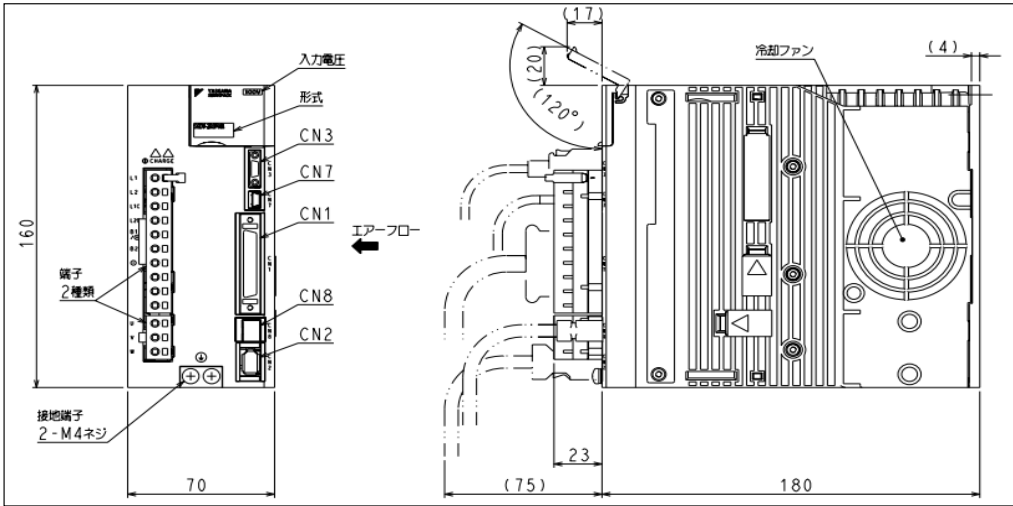
Speed/Torque Comparison (230/240 VAC)





Servomotor Model		LR mm
SGMAV-	A5A	20
	01A	
	C2A	
	02A	25
	04A	
	06A	
08A	35	
10A		



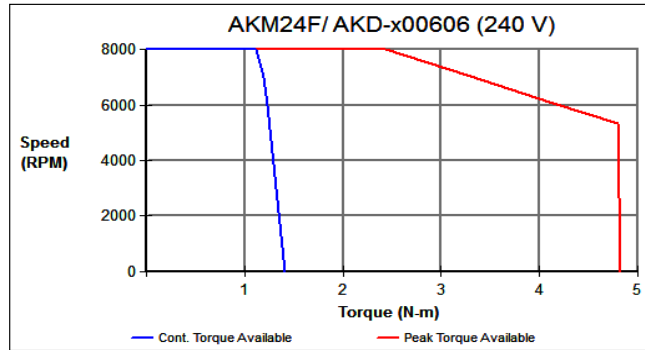
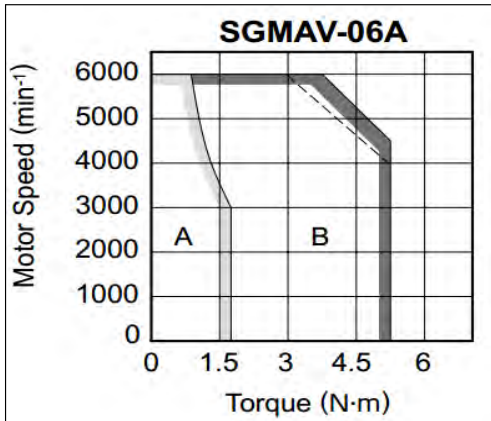


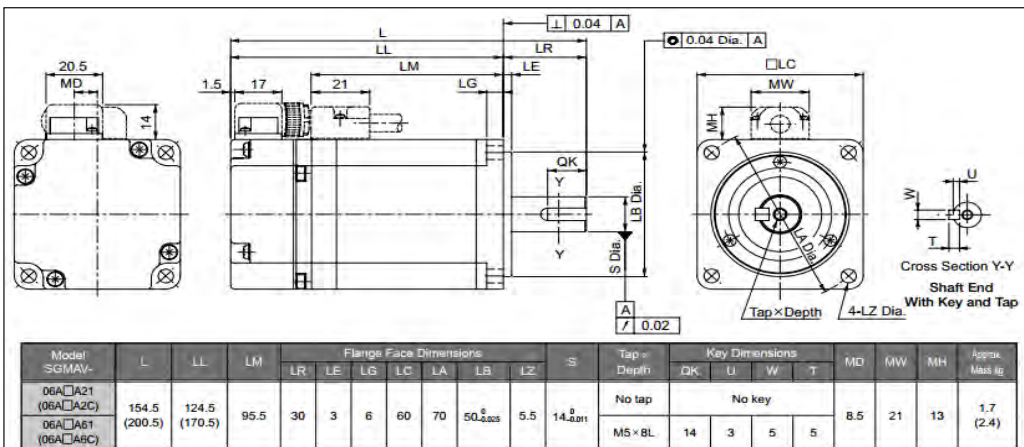
3) Yaskawa SGMAV-06A / SGDV-5R5A01

		Yaskawa SGMAV-06A	Kollmorgen AKM24F-KCNC-00
Winding Data			
Cont Stall Torque	Nm	1.75	1.42
Cont Current	Arms	3.8	3.89
Peak Stall Torque	Nm	5.25	4.82
Peak Current	Arms	12.2	15.6
Max Speed	RPM	6000	8000
Rotor Inertia	kg-cm ²	0.326	0.27
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	60	58
Bolt Circle Dia	mm	70	70
Pilot Diameter	mm	50	50
Shaft Dia	mm	14	14
Shaft Length	mm	25	30
Key Width	mm	5	5
Key Length	mm	14	20
Shaft End Thrd Holes	-	M5	N/A
Length (Std FB, no brake)	mm	154.5	143.2
BC Thru Holes	mm	5.5	5.8
Weight	kg	1.7	1.66

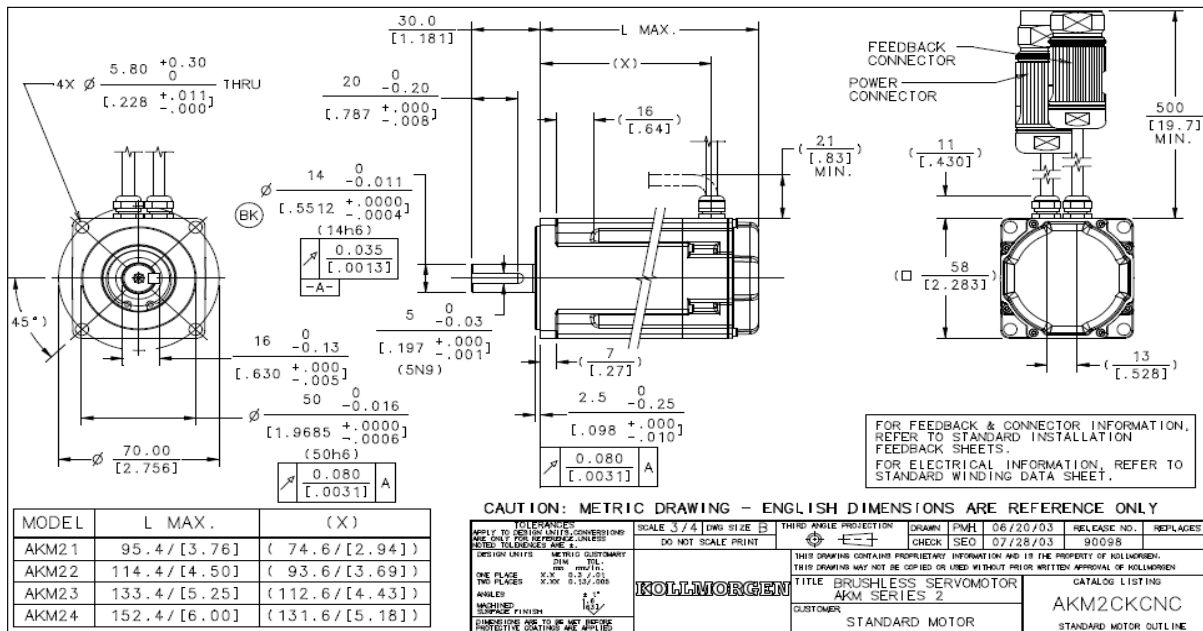
		Yaskawa SGDV-5R5A01	Kollmorgen AKD-P00606-NBAN-0000
Power			
RMS Continuous Current	Arms	5.5	6
RMS Peak Current	Arms	16.9	18
Input Voltage	VAC	200-230 (3ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	156
Width	mm	70	59
Height	mm	160	168
Weight	kg	1.5	1.1

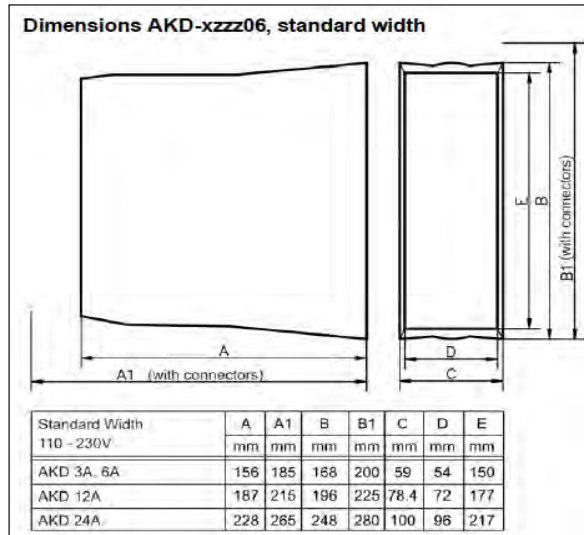
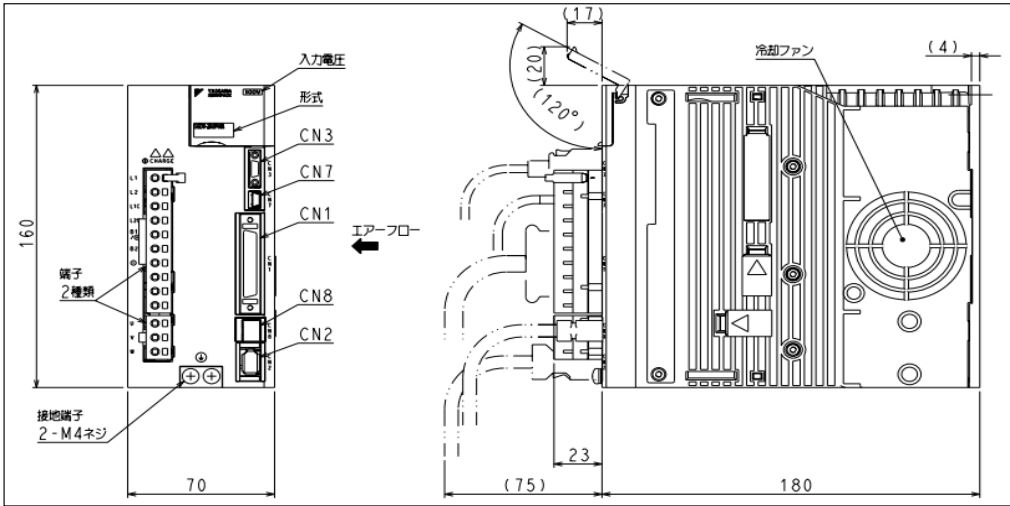
Speed/Torque Comparison (230/240 VAC)





Servomotor Model	LR mm	
	SGMAV-	A5A
	01A	20
	C2A	20
	02A	25
	04A	25
	06A	25
	08A	35
	10A	35





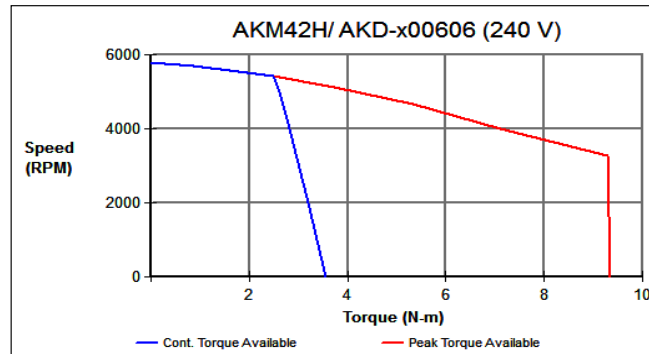
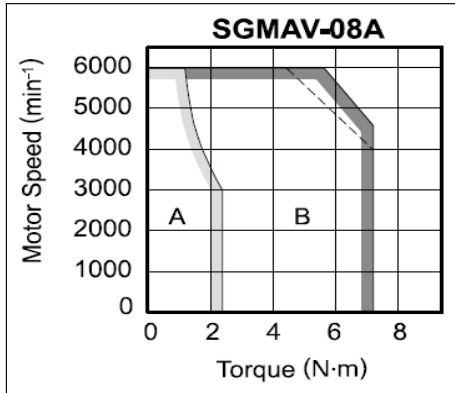
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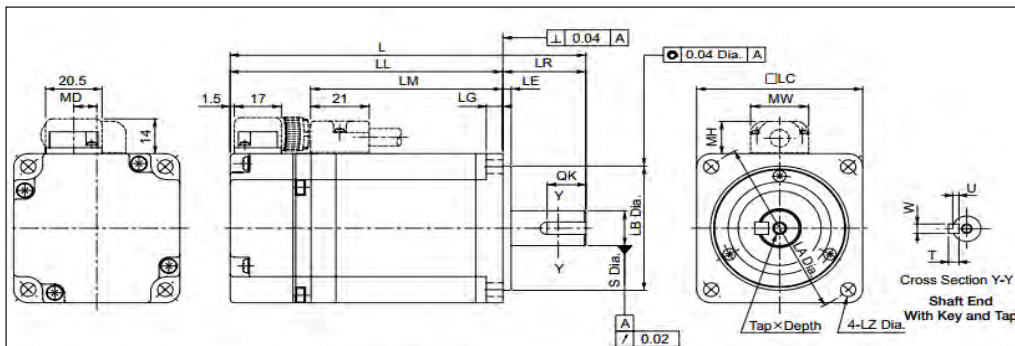
4) Yaskawa SGMV-08A / SGD5-5R5A01

		Yaskawa SGMAV-08A	Kollmorgen AKM42H-CCCNC-00
Winding Data			
Cont Stall Torque	Nm	2.39	3.54
Cont Current	Arms	5.3	6
Peak Stall Torque	Nm	7.16	11.6
Peak Current	Arms	16.6	24
Max Speed	RPM	6000	6000
Rotor Inertia	kg-cm ²	0.769	1.45
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	80	84
Bolt Circle Dia	mm	90	90
Pilot Diameter	mm	70	60
Shaft Dia	mm	19	19
Shaft Length	mm	35	40
Key Width	mm	6	6
Key Length	mm	22	21.5
Shaft End Thrd Holes	-	M6	M6
Length (Std FB, no brake)	mm	155	125.4
BC Thru Holes	mm	7	5.54
Weight	kg	2.6	3.39

		Yaskawa SGDV-5R5A01	Kollmorgen AKD-P00606-NBAN-0000
Power			
RMS Continuous Current	Arms	5.5	6
RMS Peak Current	Arms	16.9	18
Input Voltage	VAC	200-230 (3ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	156
Width	mm	70	59
Height	mm	160	168
Weight	kg	1.5	1.1

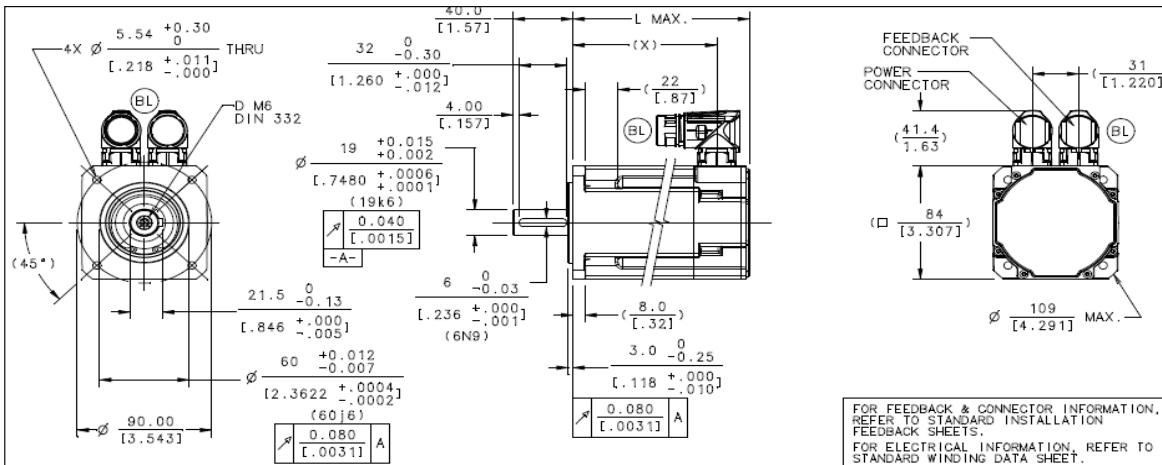
Speed/Torque Comparison (230/240 VAC)





Servomotor Model		LR mm
SGMAV-	A5A	20
	01A	
	C2A	
	02A	25
	04A	
	06A	
10A	35	

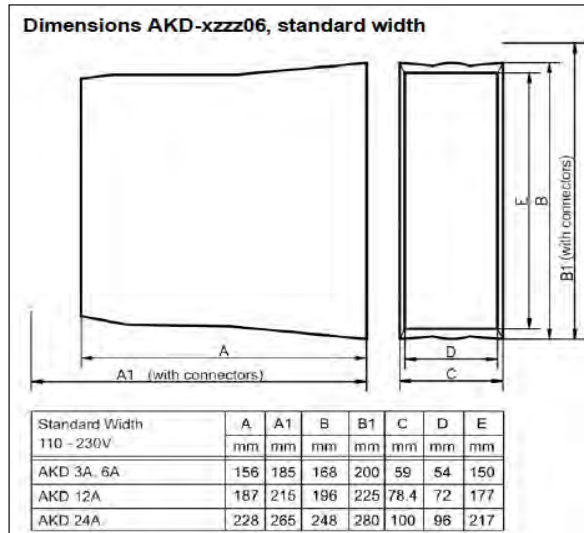
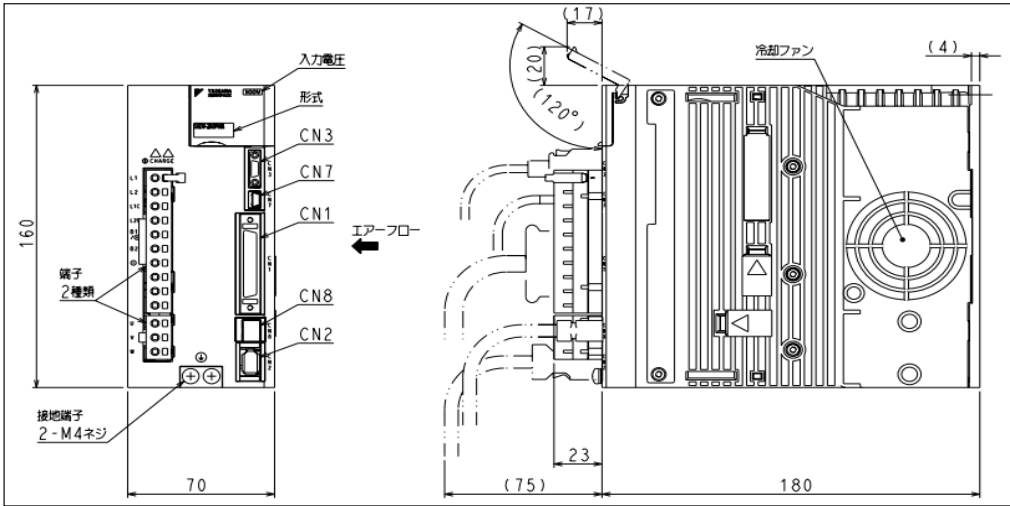
Model SGMAV-	L	LL	LM	Flange Face Dimensions										S	Tap Depth	Key Dimensions				MD	MW	MH	Approx. Mass (g)
				LR	LE	LG	LC	LA	LB	LZ	OK	U	W			T							
08A□A21 (08A□A2C)	155 (200)	115 (160)	85	40	3	8	80	90	70 ^{±0.005}	7	19 ^{±0.015}	No tap	No key				13.8	27	15	2.6 (3.2)			
08A□AB1 (08A□AB2)												M6×10L	22	3.5	6	8							



MODEL	L MAX.	(X)
AKM41	118.8/[4.68]	(96.4/[3.80])
AKM42	147.8/[5.82]	(125.4/[4.94])
AKM43	176.8/[6.96]	(154.4/[6.08])
AKM44	205.8/[8.10]	(183.4/[7.22])

CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

TOLERANCES DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. METRIC TOLERANCES ARE: FRACTIONAL DECIMAL MILLIMETER FRACTIONAL DECIMAL INCH DECIMAL MILLIMETER DECIMAL INCH DIMENSIONS ARE TO BE MEASURED FROM THE INDICATED SURFACE UNLESS NOTED OTHERWISE.	SCALE 1/2	DWG SIZE B	THIRD ANGLE PROJECTION	DRAWN PMH 06/12/03	RELEASE NO. 90099	REPLACES
	DO NOT SCALE PRINT	CHECK SED 07/25/03				
KOLLMORGEN			TITLE BRUSHLESS SERVO MOTOR CUSTOMER AKM SERIES 4 STANDARD MOTOR		CATALOG LISTING AKM4CCCN STANDARD MOTOR OUTLINE	

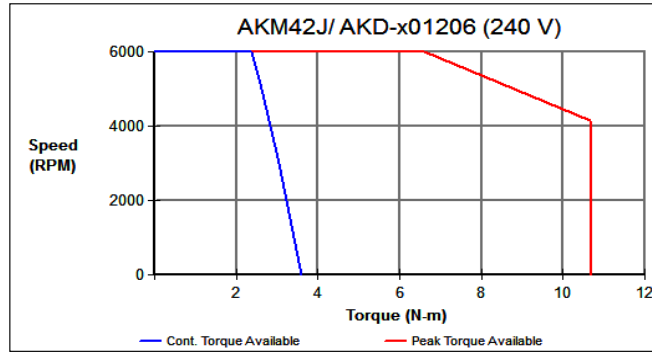
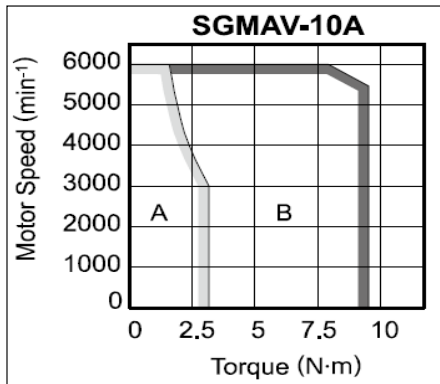


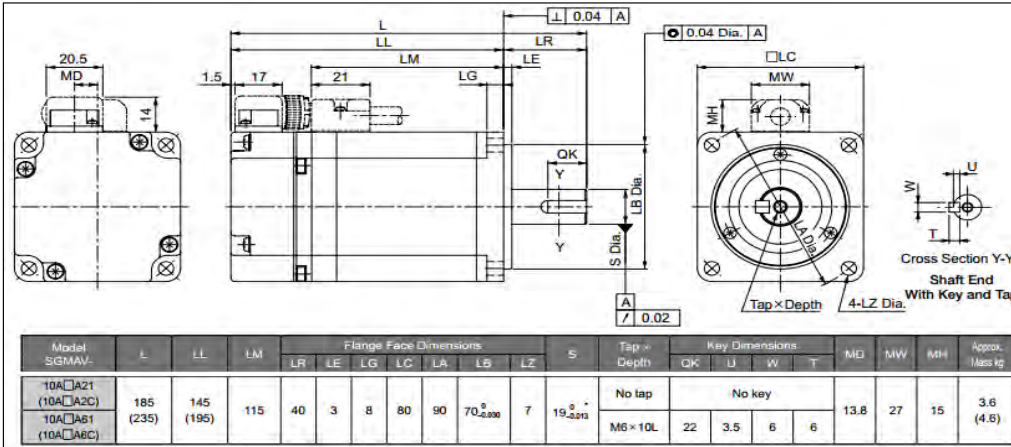
5) Yaskawa SGMV-10A / SGDV-120A01

		Yaskawa SGMAV-10A	Kollmorgen AKM42J-CCCNC-00
Winding Data			
Cont Stall Torque	Nm	3.18	3.56
Cont Current	Arms	7.4	8.4
Peak Stall Torque	Nm	9.55	11.6
Peak Current	Arms	23.9	33.7
Max Speed	RPM	6000	6000
Rotor Inertia	kg-cm ²	0.467	1.5
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	80	84
Bolt Circle Dia	mm	90	90
Pilot Diameter	mm	70	60
Shaft Dia	mm	19	19
Shaft Length	mm	35	40
Key Width	mm	6	6
Key Length	mm	22	21.5
Shaft End Thrd Holes	-	M6	M6
Length (Std FB, no brake)	mm	185	125.4
BC Thru Holes	mm	7	5.54
Weight	kg	3.6	3.39

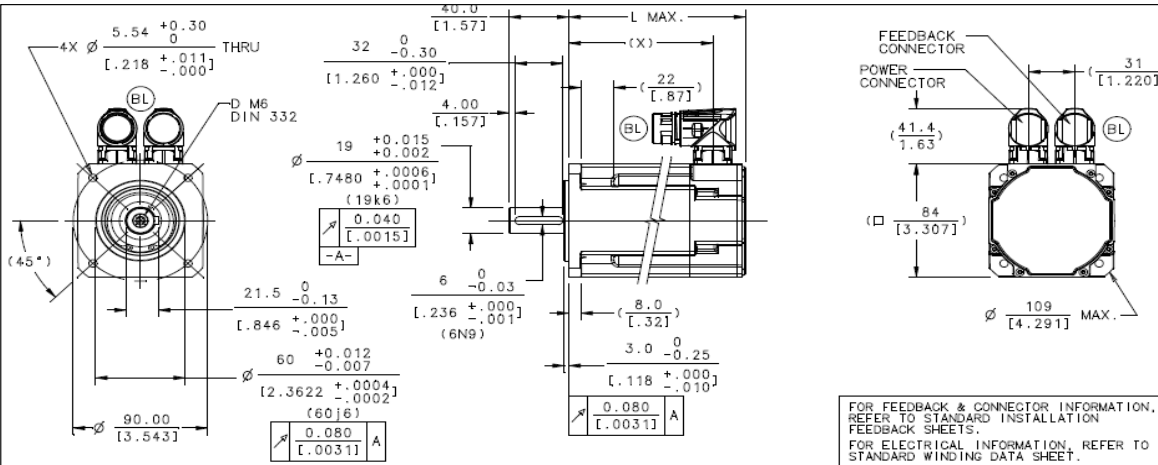
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Power			
RMS Continuous Current	Arms	11.6	12
RMS Peak Current	Arms	28	30
Input Voltage	VAC	200-230 (3ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	187
Width	mm	90	78.4
Height	mm	160	196
Weight	kg	2.4	2.0

Speed/Torque Comparison (230/240 VAC)





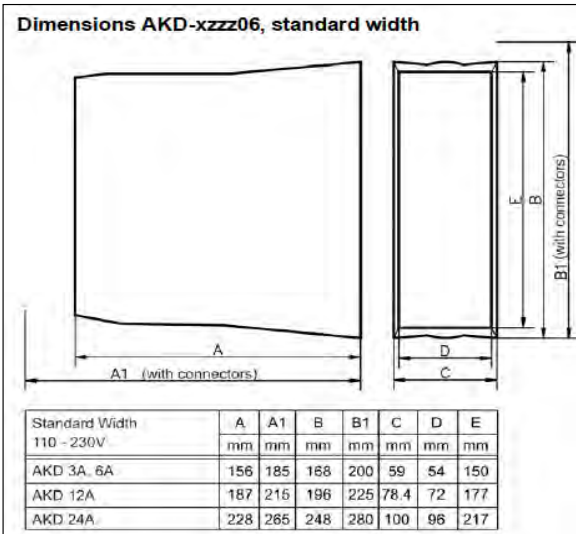
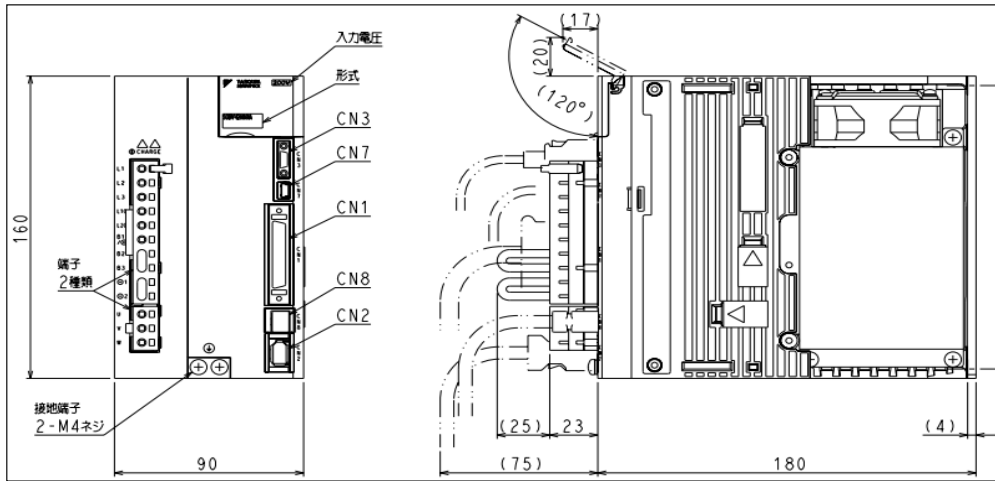
Servomotor Model		LR mm
SGMAV-	A5A	20
	O1A	
	C2A	
	O2A	25
	O4A	
	O6A	
O8A	35	
10A		



MODEL	L MAX.	(X)
AKM41	118.8/[4.68]	(96.4/[3.80])
AKM42	147.8/[5.82]	(125.4/[4.94])
AKM43	176.8/[6.96]	(154.4/[6.08])
AKM44	205.8/[8.10]	(183.4/[7.22])

CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

TOLERANCES APPLY TO DIMENSIONS UNLESS OTHERWISE SPECIFIED METRIC DIMENSIONS ARE FIRST PREFERRED	SCALE 1/2 DWS SIZE B	THIRD ANGLE PROJECTION	DRAWN FJM 06/12/03	RELEASE NO. 90099	REPLACES
DO NOT SCALE PRINT			CHECK SED 07/25/03		
UNIT: METRIC DIM: mm TOL: 0.050 ONE PLACE TWO PLACE: 0.01/0.005 ANGLE: 1/2° SURFACE FINISH: Ra 0.4 DIMENSIONS ARE TO BE MET BEFORE PRODUCTIVE CONTAINERS ARE APPLIED	KOLLMORGEN		TITLE BRUSHLESS SERVO MOTOR AKM SERIES 4 CUSTOMER STANDARD MOTOR		CATALOG LISTING AKM4CCCN STANDARD MOTOR OUTLINE



6) Yaskawa SGMGV-03A / SGDV-3R8A

		Yaskawa SGMGV-03A	Kollmorgen AKM41E-GNCNC-00
Winding Data			
Cont Stall Torque	Nm	1.96	2.02
Cont Current	Arms	2.8	2.85
Peak Stall Torque	Nm	5.88	6.28
Peak Current	Arms	8	11.4
Max Speed	RPM	3000	6000
Rotor Inertia	kg-cm ²	2.48	0.81
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	90	84
Bolt Circle Dia	mm	100	100
Pilot Diameter	mm	80	80
Shaft Dia	mm	14	14
Shaft Length	mm	37	30
Key Width	mm	N/A	N/A
Key Length	mm	N/A	N/A
Shaft End Thrd Holes	-	N/A	M6
Length (Std FB, no brake)	mm	126	96.4
BC Thru Holes	mm	6.6	7
Weight	kg	2.6	2.44

		Yaskawa SGDV-3R8A01	Kollmorgen AKD-P00306-NBAN-0000
Power			
RMS Continuous Current	Arms	3.8	3
RMS Peak Current	Arms	11	9
Input Voltage	VAC	200-230 (3ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	156
Width	mm	70	59
Height	mm	160	168
Weight	kg	1.5	1.1

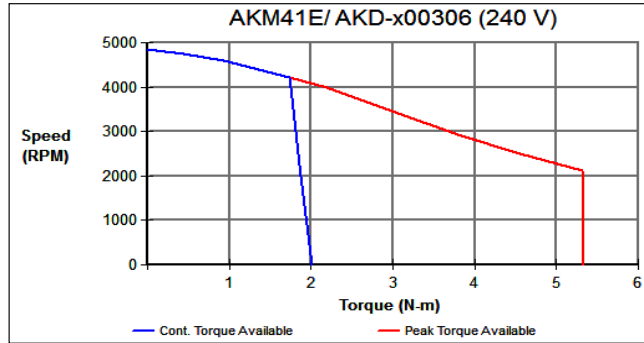
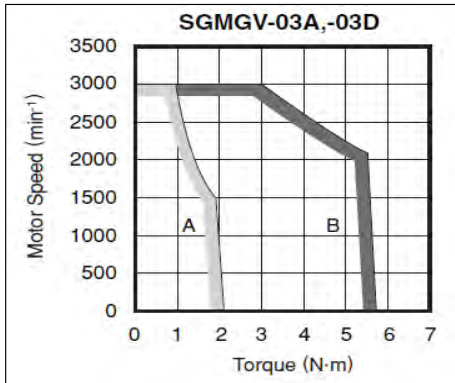
Notes:

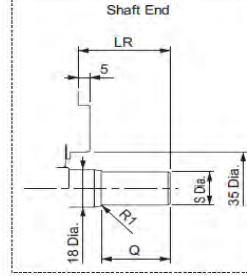
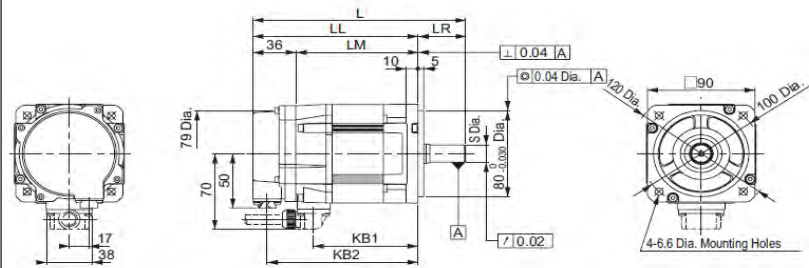
SGMGV is a "medium inertia" motor.

The AKM crossover represents closest alternative in terms of torque/speed

Recommend review of AKM43 of AKM44 if inertia is critical

Speed/Torque Comparison (230/240 VAC)

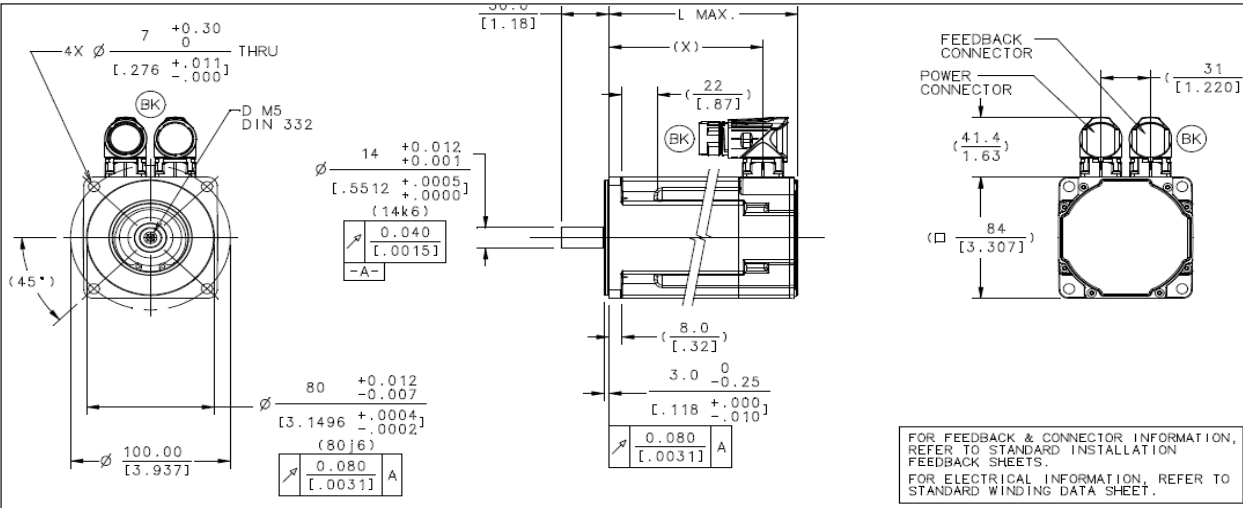




Note: For the specifications of the other shaft ends, refer to page 58.

Model SGMGV-	L	LL	LM	LR	KB1	KB2	Shaft End Dimensions		Approx. Mass kg
							S	Q	
03□□A21	163	126	90	37	75	114	14 ⁰ _{-0.011}	25	2.6
05□□A21	179	139	103	40	88	127	16 ⁰ _{-0.011}	30	3.2

Note: Models with oil seals are of the same configuration.



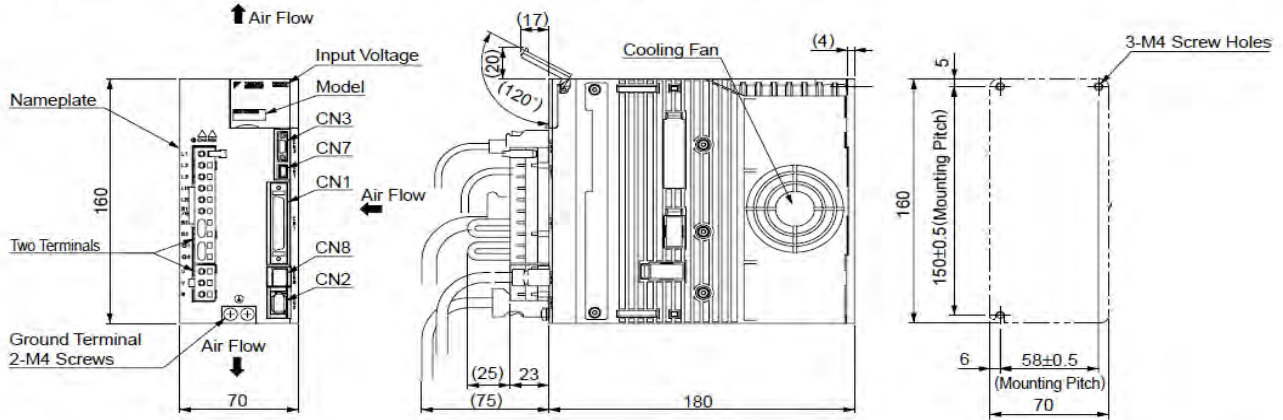
FOR FEEDBACK & CONNECTOR INFORMATION, REFER TO STANDARD INSTALLATION FEEDBACK SHEETS.
FOR ELECTRICAL INFORMATION, REFER TO STANDARD WINDING DATA SHEET.

MODEL	L MAX.	(X)
AKM41	118.8 / [4.68]	(96.4 / [3.80])
AKM42	147.8 / [5.82]	(125.4 / [4.94])
AKM43	176.8 / [6.96]	(154.4 / [6.08])
AKM44	205.8 / [8.10]	(183.4 / [7.22])

CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

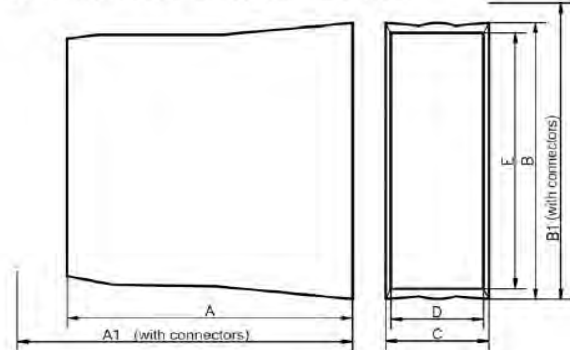
TOLERANCES APPLY TO SERIAL DIMENSIONS AND ONLY FOR REFERENCE UNLESS NOTED OTHERWISE	SCALE 1/2 [DWG SIZE]	THIRD ANGLE PROJECTION	DRAWN PMH 03/26/04	RELEASE NO. 90179	REPLACES
DO NOT SCALE PRINT	CHECK TJS 03/29/04				
DESIGN UNITS: METRIC CUSTOMARY DIM: mm IN. ONE PLACE X.XX 0.01/0.05 TWO PLACES X.XX 0.10/0.05 ANGLES: ° ' " UNFINED: 125/ SURFACE FINISH: 125/ DIMENSIONS ARE TO BE MET BEFORE	KOLLMORGEN	TITLE: BRUSHLESS SERVOMOTOR AKM SERIES 4	CATALOG LISTING AKM4GNCN STANDARD MOTOR OUTLINE		

(5) Three-phase 200 VAC, Model: SGDV-3R8A0□A, -5R5A0□A, and 7R6A0□A



Mounting Hole Diagram
Approx. Mass: 1.5 kg

Dimensions AKD-xzzz06, standard width



Standard Width	A	A1	B	B1	C	D	E
	mm	mm	mm	mm	mm	mm	mm
110 - 230V							
AKD 3A, 6A	156	185	168	200	59	54	150
AKD 12A	187	216	196	225	78.4	72	177
AKD 24A	228	265	248	280	100	96	217

7) Yaskawa SGMGV-05A/ SGDV-3R8A

		Yaskawa SGMGV-05A	Kollmorgen AKM42G-GNCNC-00
Winding Data			
Cont Stall Torque	Nm	2.86	3.53
Cont Current	Arms	1.9	4.8
Peak Stall Torque	Nm	8.92	11.6
Peak Current	Arms	11	19.2
Max Speed	RPM	3000	6000
Rotor Inertia	kg-cm ²	3.33	1.5
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	90	84
Bolt Circle Dia	mm	100	100
Pilot Diameter	mm	80	80
Shaft Dia	mm	14	14
Shaft Length	mm	37	30
Key Width	mm	N/A	N/A
Key Length	mm	N/A	N/A
Shaft End Thrd Holes	-	N/A	M6
Length (Std FB, no brake)	mm	139	147.8
BC Thru Holes	mm	6.6	7
Weight	kg	3.2	3.39

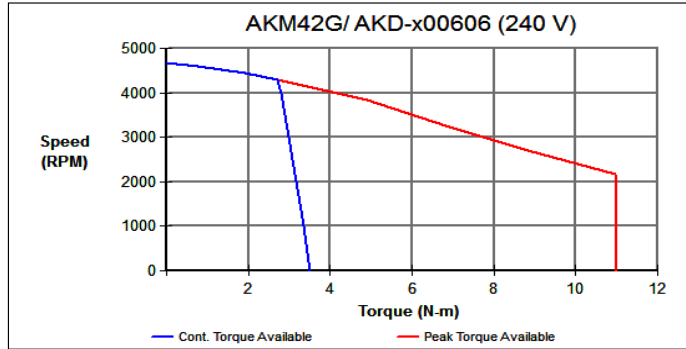
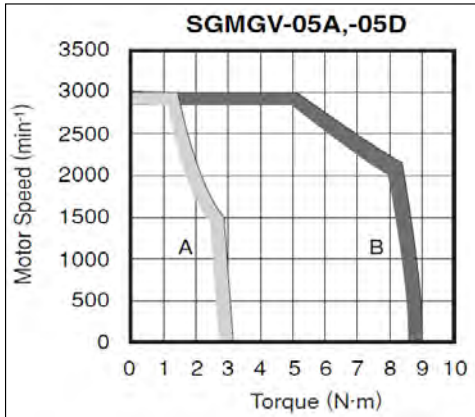
		Yaskawa SGDV-3R8A01	Kollmorgen AKD-P00606-NBAN-0000
Power			
RMS Continuous Current	Arms	3.8	6
RMS Peak Current	Arms	11	18
Input Voltage	VAC	200-230 (3ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	156
Width	mm	70	59
Height	mm	160	168
Weight	kg	1.5	1.1

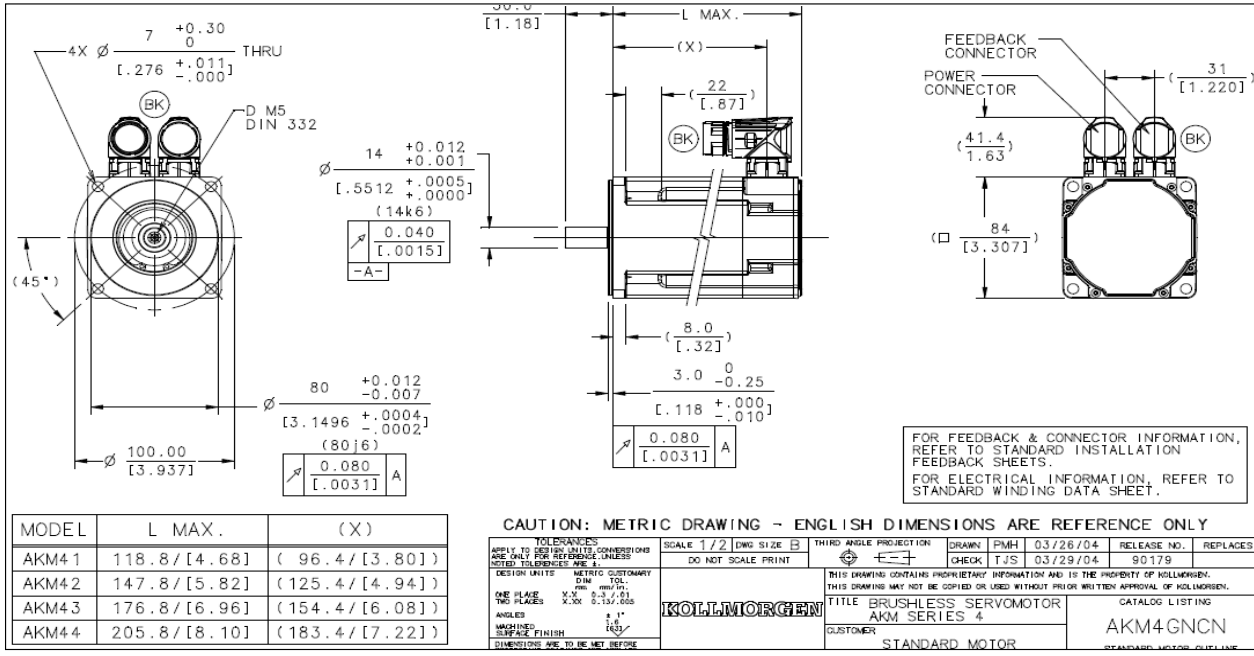
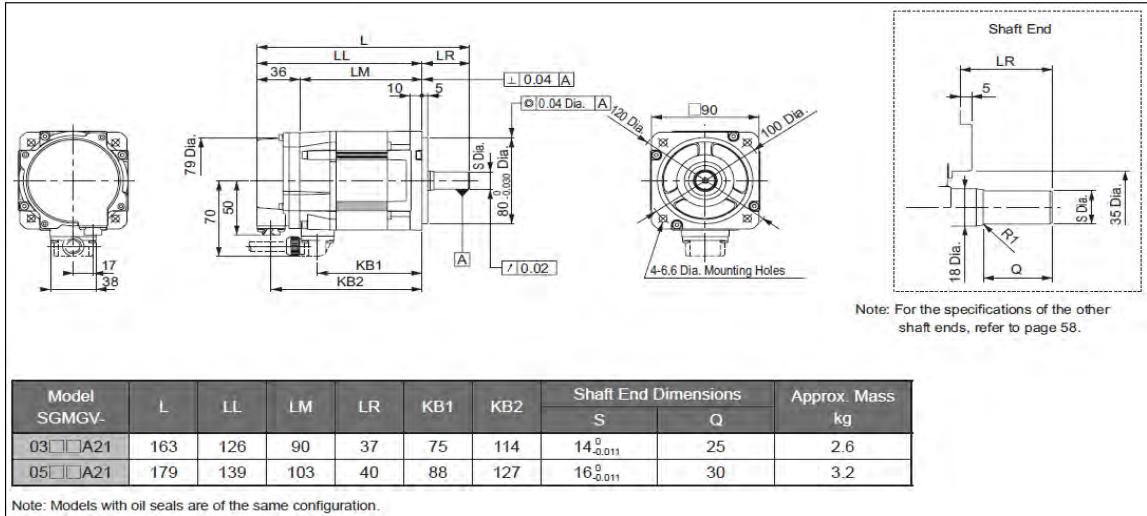
Notes:

SGMGV is a "medium inertia" motor.

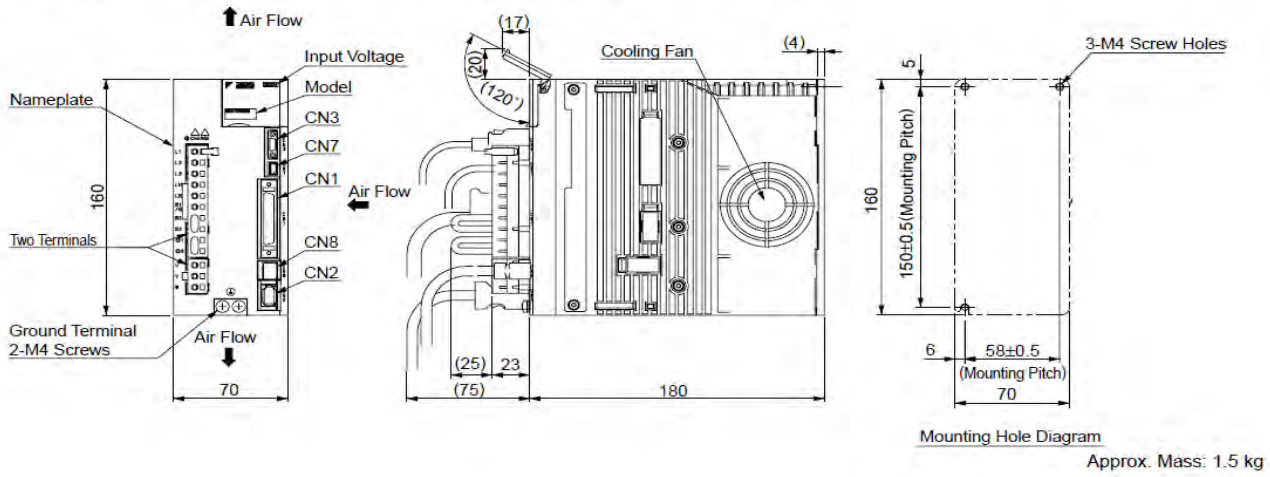
The AKM crossover represents closest alternative in terms of performance and dimensions
Recommend review of AKM51 if inertia is critical

Speed/Torque Comparison (230/240 VAC)

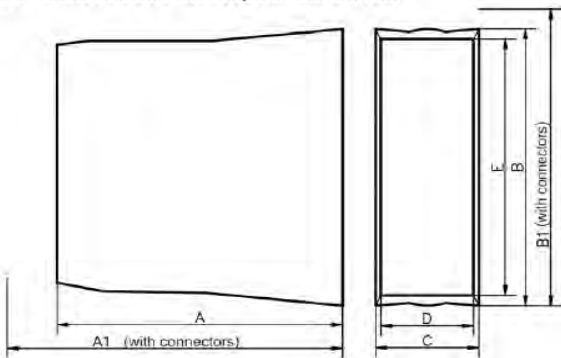




(5) Three-phase 200 VAC, Model: SGDV-3R8A0□A, -5R5A0□A, and 7R6A0□A



Dimensions AKD-xzzz06, standard width



Standard Width	A	A1	B	B1	C	D	E
110 - 230V	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 6A	156	185	168	200	59	54	150
AKD 12A	187	216	196	225	78.4	72	177
AKD 24A	228	265	248	280	100	96	217

8) Yaskawa SGMGV-09A/ SGDV-7R6A

		Yaskawa SGMGV-09A	Kollmorgen AKM62L-KKCNC-00
Winding Data			
Cont Stall Torque	Nm	5.39	5.92*
Cont Current	Arms	6.9	6.0*
Peak Stall Torque	Nm	13.8	16.7*
Peak Current	Arms	17	18*
Max Speed	RPM	3000	6000
Rotor Inertia	kg-cm ²	13.9	16.9
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	130	138
Bolt Circle Dia	mm	145	145
Pilot Diameter	mm	110	110
Shaft Dia	mm	19	28
Shaft Length	mm	58	60
Key Width	mm	N/A	8
Key Length	mm	N/A	50
Shaft End Thrd Holes	-	N/A	N/A
Length (Std FB, no brake)	mm	137	153.7
BC Thru Holes	mm	9	9
Weight	kg	5.5	8.9

		Yaskawa SGDV-7R6A	Kollmorgen AKD-P00606-NBEI-0000
Power			
RMS Continuous Current	Arms	7.6	6
RMS Peak Current	Arms	17	18
Input Voltage	VAC	200 (3ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	156
Width	mm	70	59
Height	mm	160	168
Weight	kg	1.5	1.1

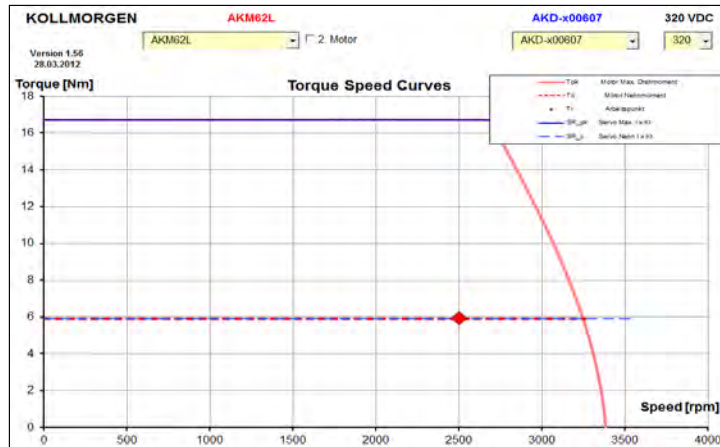
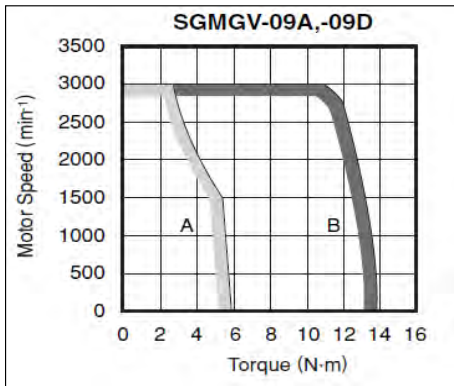
Notes:

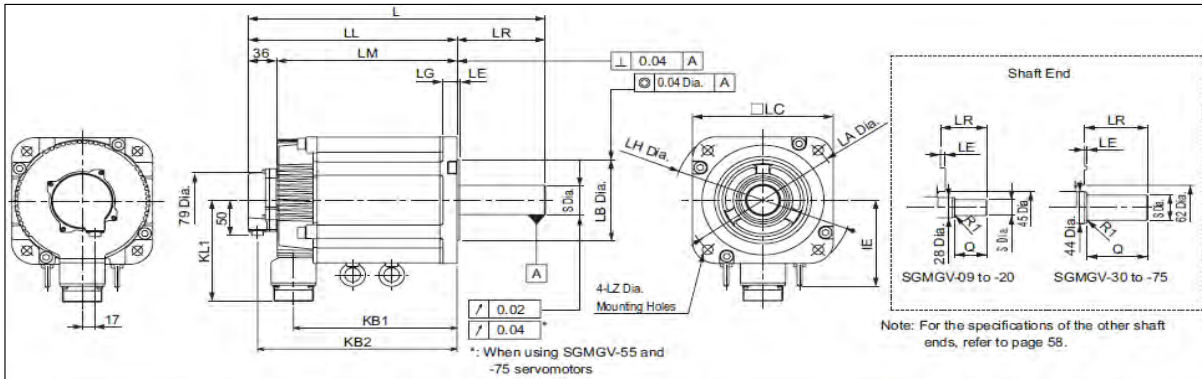
SGMGV is a "medium inertia" motor.

The AKM crossover represents closest alternative in terms of performance and dimensions
Note shaft diameter differences

*Motor specifications when paired with AKD-P00607 drive

Speed/Torque Comparison (230/240 VAC)

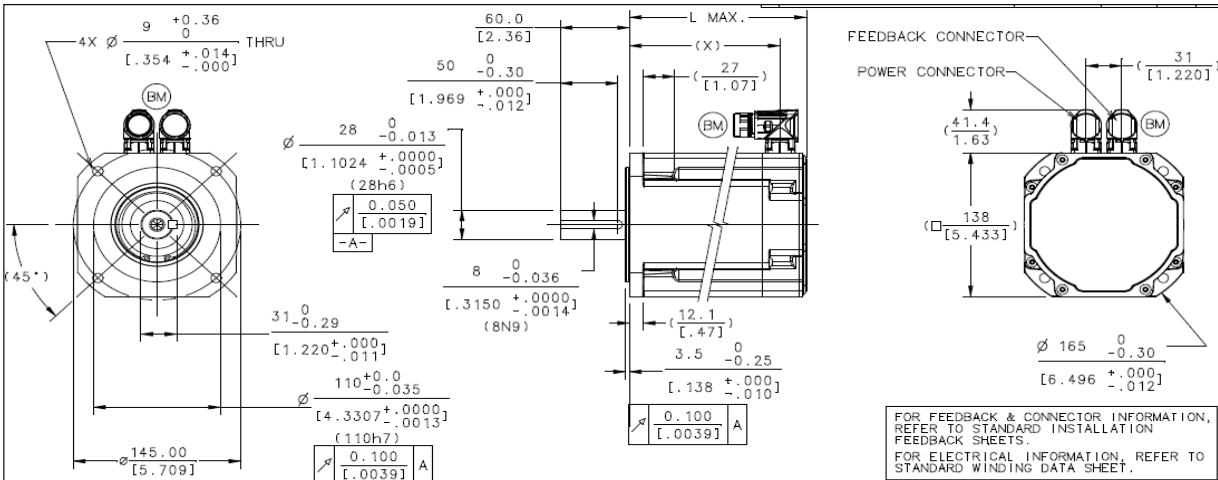




*: When using SGMGV-55 and -75 servomotors

Note: For the specifications of the other shaft ends, refer to page 58.

Model SGMGV-	L	LL	LM	LR	KB1	KB2	IE	KL1	Flange Face Dimensions						Shaft End Dimensions		Approx. Mass kg	
									LA	LB	LC	LE	LG	LH	LZ	S		Q
09 A21	195	137	101	58	83	125	-	104	145	110 ^{±0.035}	130	6	12	165	9	19 ^{±0.013}	40	5.5



FOR FEEDBACK & CONNECTOR INFORMATION, REFER TO STANDARD INSTALLATION FEEDBACK SHEETS.
FOR ELECTRICAL INFORMATION, REFER TO STANDARD WINDING DATA SHEET.

MODEL	L MAX.	(X)
AKM62	153.7 / [6.05]	(130.5 / [5.14])
AKM63	178.7 / [7.04]	(155.5 / [6.12])
AKM64	203.7 / [8.02]	(180.5 / [7.11])
AKM65	228.7 / [9.00]	(205.5 / [8.09])

CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

TOLERANCES APPLY TO DIMENSIONS UNLESS OTHERWISE SPECIFIED AND ONLY FOR REFERENCE UNLESS NOTED OTHERWISE. SEE A.

SCALE 3/8 DWG SIZE B DO NOT SCALE PRINT

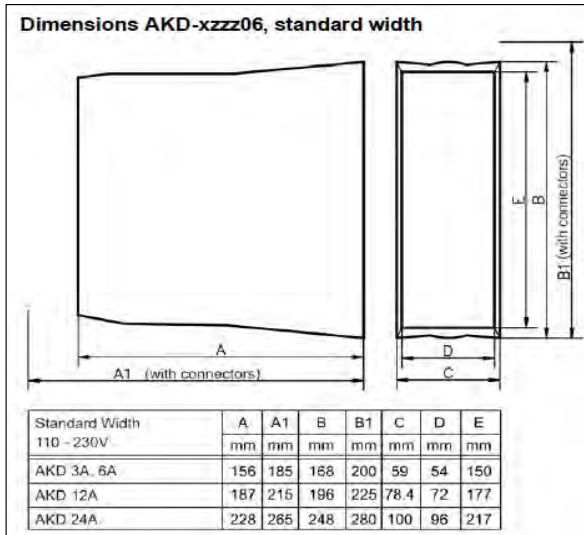
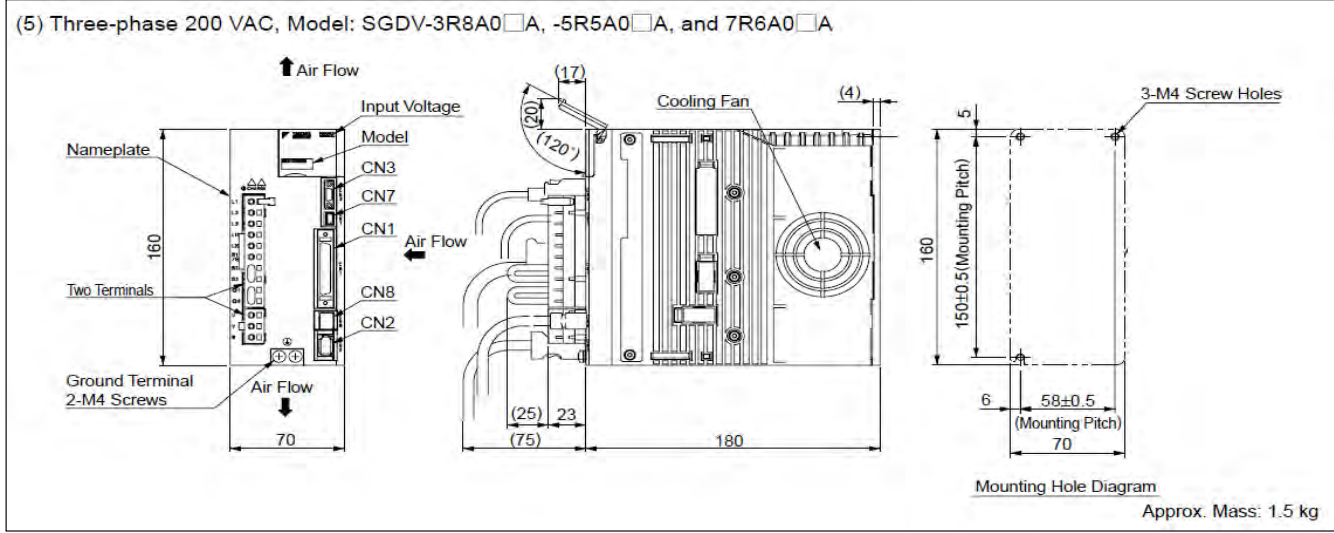
THIRD ANGLE PROJECTION

DRAWN: SEO 1/19/04 CHECK: TJS 1/19/04 RELEASE NO.: KFB0002 REPLACES:

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KOLLMORGEN TITLE: BRUSHLESS SERVO MOTOR AKM SERIES 6 CATALOG LISTING: AKM6KKCN

CUSTOMER: STANDARD MOTOR STANDARD MOTOR OUTLINE



9) Yaskawa SGMGV-13A/ SGD120A

		Yaskawa SGMGV-13A	Kollmorgen AKM62L-KKNC-00
Winding Data			
Cont Stall Torque	Nm	8.34	12.2
Cont Current	Arms	10.7	12
Peak Stall Torque	Nm	23.3	30.1
Peak Current	Arms	28	36
Max Speed	RPM	3000	6000
Rotor Inertia	kg-cm ²	19.9	16.9
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	130	138
Bolt Circle Dia	mm	145	145
Pilot Diameter	mm	110	110
Shaft Dia	mm	22	28
Shaft Length	mm	58	60
Key Width	mm	N/A	8
Key Length	mm	N/A	50
Shaft End Thrd Holes	-	N/A	N/A
Length (Std FB, no brake)	mm	153	153.7
BC Thru Holes	mm	9	9
Weight	kg	7.1	8.9

		Yaskawa SGDV-120A01	Kollmorgen AKD-P01206-NBAN-0000
Power			
RMS Continuous Current	Arms	11.6	12
RMS Peak Current	Arms	28	30
Input Voltage	VAC	200 (3ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	187
Width	mm	80	78.4
Height	mm	160	196
Weight	kg	2.4	2.0

Notes:

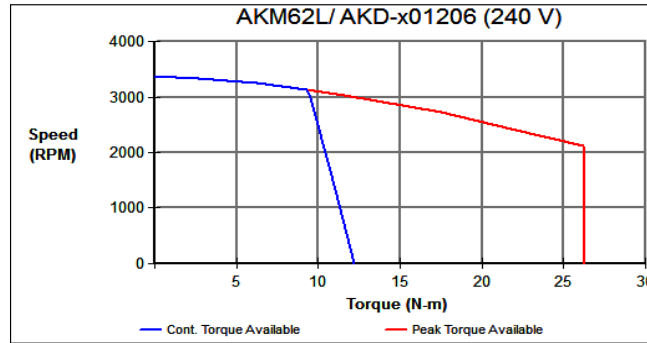
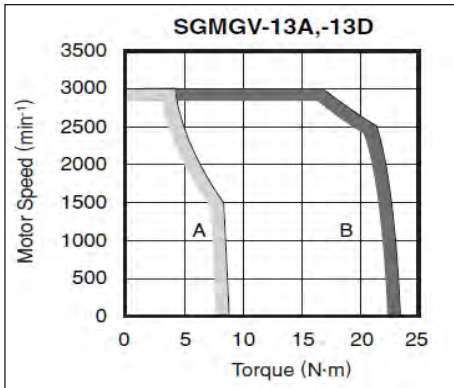
SGMGV is a "medium inertia" motor.

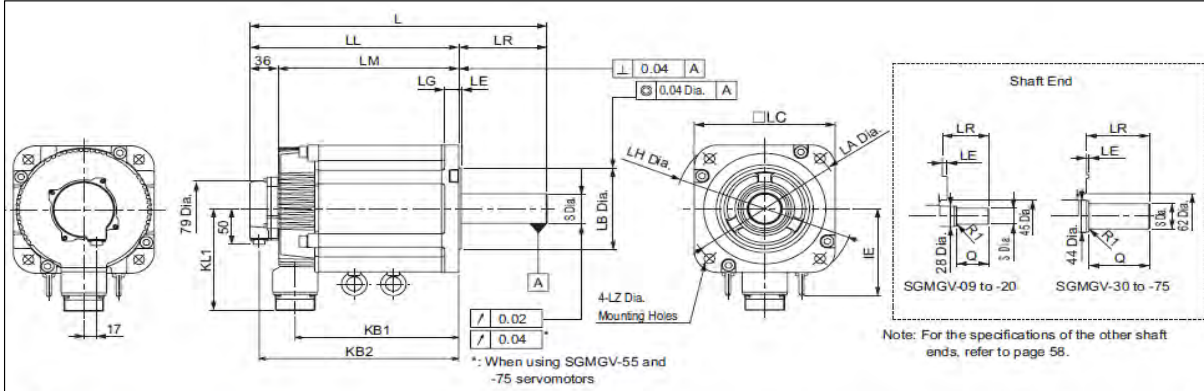
The AKM crossover represents closest alternative in terms of performance and dimensions

Note shaft diameter differences

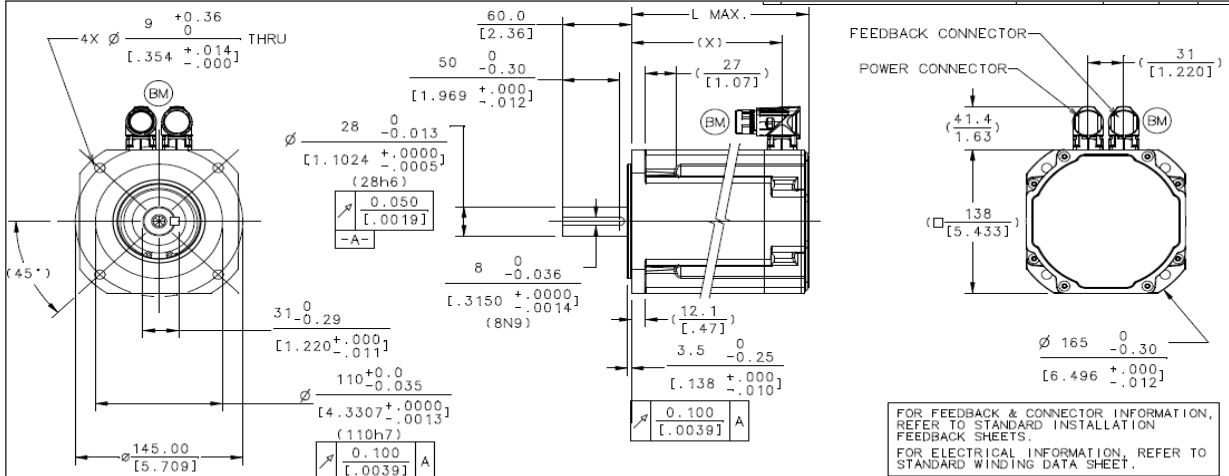
Recommend review of AKM63 if inertia is critical

Speed/Torque Comparison (230/240 VAC)





Model SGMGV-	L	LL	LM	LR	KB1	KB2	IE	KL1	Flange Face Dimensions						Shaft End Dimensions		Approx. Mass kg	
									LA	LB	LC	LE	LG	LH	LZ	S		Q
13□□A21	211	153	117	58	99	141	-	104	145	110 ⁰ _{-0.035}	130	6	12	165	9	22 ⁰ _{0.013}	40	7.1

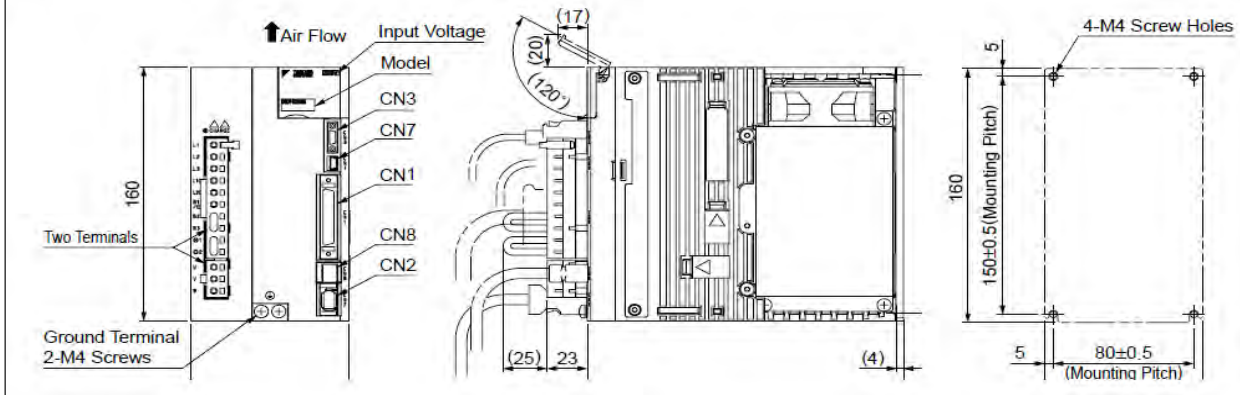


MODEL	L MAX.	(X)
AKM62	153.7/[6.05]	(130.5/[5.14])
AKM63	178.7/[7.04]	(155.5/[6.12])
AKM64	203.7/[8.02]	(180.5/[7.11])
AKM65	228.7/[9.00]	(205.5/[8.09])

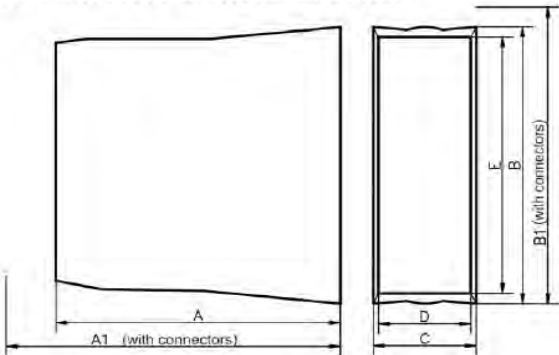
CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

TOLERANCES APPLY TO DECIMAL VALUES UNLESS NOTED OTHERWISE. METRIC TOLERANCES ARE: DECIMALS METRIC CUSTOMARY DIM. UNITS: X.25mm (0.010") X.50mm (0.020") X.75mm (0.030") ANGLES: ± 0.1° SURFACE FINISH: Ra 0.4μm (0.016mil) DIMENSIONS ARE TO BE MET UNLESS PROTECTIVE COATINGS ARE APPLIED	SCALE 3/8" = 1" (1:2.5)	THIRD ANGLE PROJECTION	DRAWN: SEO 1/19/04	RELEASE NO.:	REPLACES:
DO NOT SCALE PRINT			CHECK: TJS 1/19/04	KFB0002	
THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND IS THE PROPERTY OF KOLLMORGEN. THIS DRAWING MAY NOT BE COPIED OR USED WITHOUT PRIOR WRITTEN APPROVAL OF KOLLMORGEN.			CATALOG LISTING		
TITLE: BRUSHLESS SERVO MOTOR AKM SERIES 6			CUSTOMER: STANDARD MOTOR		
KOLLMORGEN			AKM6KKCN		

(6) Three-phase 200 VAC, Model: SGDV-120A0□A



Dimensions AKD-xzzz06, standard width



Standard Width	A	A1	B	B1	C	D	E
110 - 230V	mm	mm	mm	mm	mm	mm	mm
AKD 3A_6A	156	185	188	200	59	54	150
AKD 12A	187	215	196	225	78.4	72	177
AKD 24A	228	265	248	280	100	96	217

10) Yaskawa SGMGV-03D/ SGD V-1R9D

		Yaskawa SGMGV-03D	Kollmorgen AKM41E-GNCNC-00
Winding Data			
Cont Stall Torque	Nm	1.96	2.02
Cont Current	Arms	2.8	2.85
Peak Stall Torque	Nm	5.88	6.28
Peak Current	Arms	8	11.4
Max Speed	RPM	3000	6000
Rotor Inertia	kg-cm ²	2.48	0.81
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	90	84
Bolt Circle Dia	mm	100	100
Pilot Diameter	mm	80	80
Shaft Dia	mm	14	14
Shaft Length	mm	37	30
Key Width	mm	N/A	N/A
Key Length	mm	N/A	N/A
Shaft End Thrd Holes	-	N/A	M6
Length (Std FB, no brake)	mm	126	118.8
BC Thru Holes	mm	6.6	7
Weight	kg	2.6	2.44

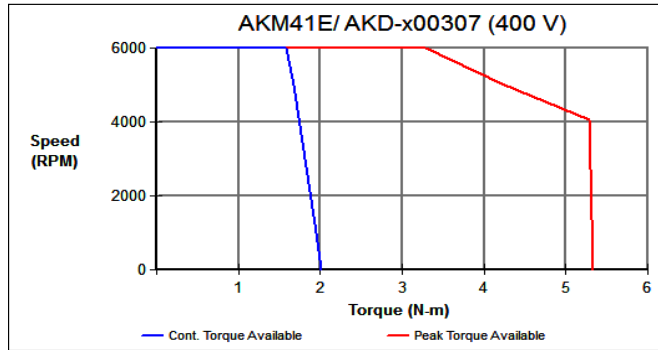
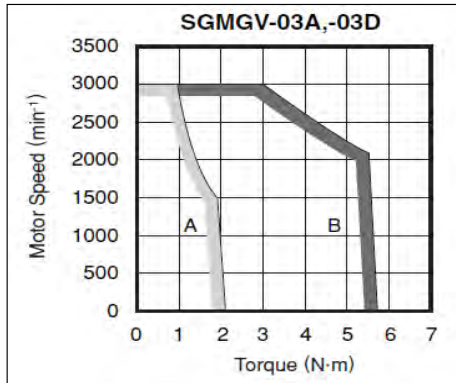
		Yaskawa SGDV-1R9D01	Kollmorgen AKD-P00307-NBAN-0000
Power			
RMS Continuous Current	Arms	1.9	3
RMS Peak Current	Arms	5.5	9
Input Voltage	VAC	400 (3ph)	240-480 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	185
Width	mm	110	70
Height	mm	160	256
Weight	kg	2.7	2.7

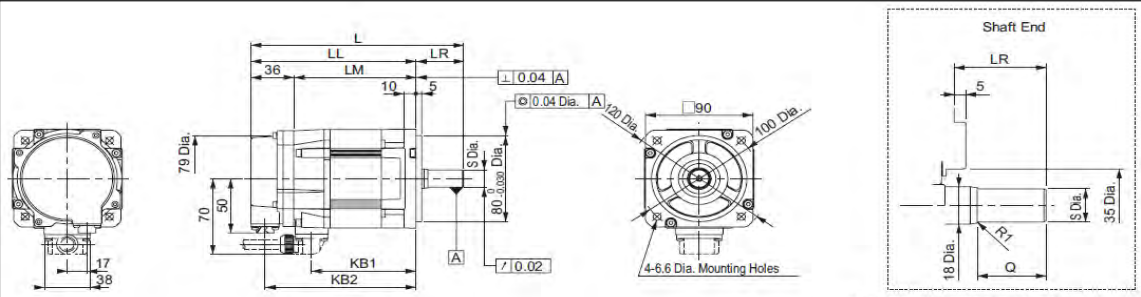
Notes:

SGMGV is a "medium inertia" motor.

The AKM crossover represents closest alternative in terms of performance and dimensions
Recommend review of AKM43 of AKM44 if inertia is critical

Speed/Torque Comparison (400 VAC)

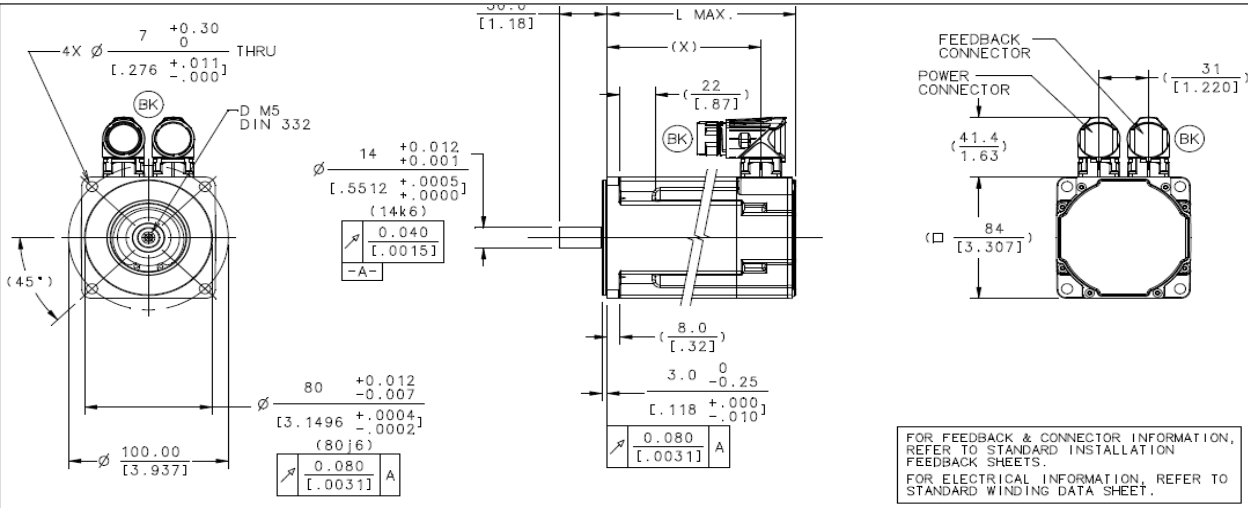




Note: For the specifications of the other shaft ends, refer to page 58.

Model SGMGV-	L	LL	LM	LR	KB1	KB2	Shaft End Dimensions		Approx. Mass kg
							S	Q	
03□□A21	163	126	90	37	75	114	14 ⁰ _{-0.011}	25	2.6
05□□A21	179	139	103	40	88	127	16 ⁰ _{-0.011}	30	3.2

Note: Models with oil seals are of the same configuration.



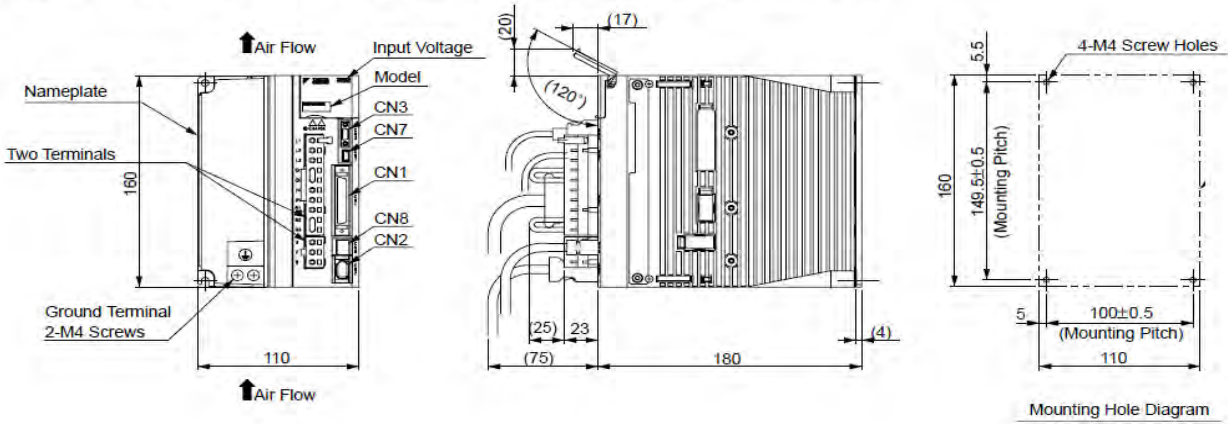
FOR FEEDBACK & CONNECTOR INFORMATION, REFER TO STANDARD INSTALLATION FEEDBACK SHEETS.
FOR ELECTRICAL INFORMATION, REFER TO STANDARD WINDING DATA SHEET.

MODEL	L MAX.	(X)
AKM41	118.8/[4.68]	(96.4/[3.80])
AKM42	147.8/[5.82]	(125.4/[4.94])
AKM43	176.8/[6.96]	(154.4/[6.08])
AKM44	205.8/[8.10]	(183.4/[7.22])

CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

TOLERANCES APPLY TO DIMENSIONS UNLESS OTHERWISE SPECIFIED. SEE 4.	SCALE 1/2 DWG SIZE DO NOT SCALE PRINT	THIRD ANGLE PROJECTION	DRAWN PMH 03/26/04 CHECK TJS 03/29/04	RELEASE NO. 90179	REPLACES
DESIGN UNITS MILS ONE PLACE TWO PLACES ANGLES UNFINISHED SURFACE FINISH DIMENSIONS ARE TO BE MET BEFORE	METRIC CUSTOMARY DIM TOL. mm only 0.1 mm only 0.05 X.300 0.125/0.050 ° ± 1° RZ	THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND IS THE PROPERTY OF KOLLMORGEN. THIS DRAWING MAY NOT BE COPIED OR USED WITHOUT PRIOR WRITTEN APPROVAL OF KOLLMORGEN.		CATALOG LISTING AKM4GNCN STANDARD MOTOR OUTLINE	
KOLLMORGEN		TITLE BRUSHLESS SERVOMOTOR AKM SERIES 4		CUSTOMER STANDARD MOTOR	

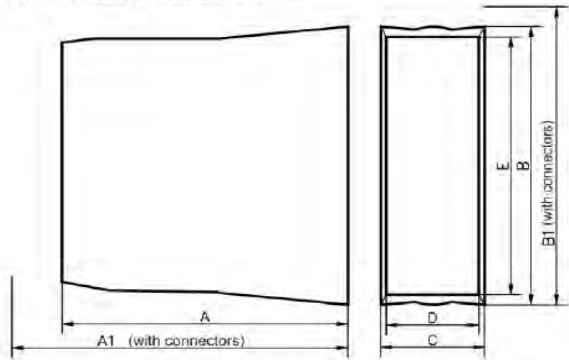
(11) Three-phase 400 VAC, Model: SGDV-1R9D0□A, -3R5D0□A, and -5R4D0□A



Mounting Hole Diagram

Approx. Mass: 2.7 kg

Dimensions AKD-xzzz07, standard width



Standard Width	A	A1	B	B1	C	D	E
480V	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 6A, 12A	185	221	256	290	70	65	232
AKD 24A	228	264	306	340	105	99	273

11) Yaskawa SGMGV-05D/ SGDV-1R9D

		Yaskawa SGMGV-05D	Kollmorgen AKM42E-GNCNC-00
Winding Data			
Cont Stall Torque	Nm	2.86	3.42
Cont Current	Arms	1.9	2.74
Peak Stall Torque	Nm	8.92	11.3
Peak Current	Arms	5.5	11
Max Speed	RPM	3000	6000
Rotor Inertia	kg-cm ²	3.33	1.5
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	90	84
Bolt Circle Dia	mm	100	100
Pilot Diameter	mm	80	80
Shaft Dia	mm	14	14
Shaft Length	mm	37	30
Key Width	mm	N/A	N/A
Key Length	mm	N/A	N/A
Shaft End Thrd Holes	-	N/A	M6
Length (Std FB, no brake)	mm	139	147.8
BC Thru Holes	mm	6.6	7
Weight	kg	3.2	3.39

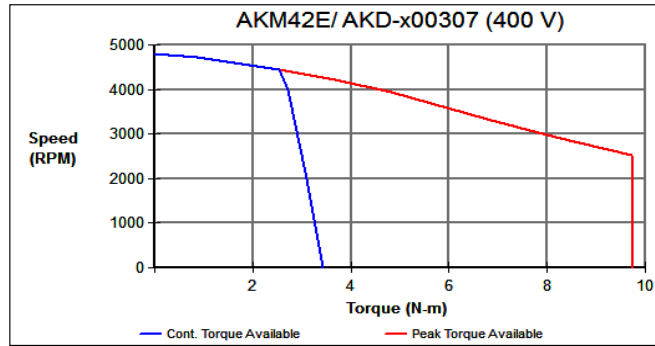
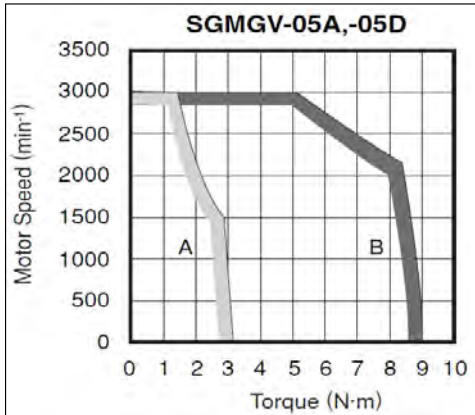
		Yaskawa SGDV-1R9D01	Kollmorgen AKD-P00307-NBAN-0000
Power			
RMS Continuous Current	Arms	1.9	3
RMS Peak Current	Arms	5.5	9
Input Voltage	VAC	400 (3ph)	240-480 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	185
Width	mm	110	70
Height	mm	160	256
Weight	kg	2.7	2.7

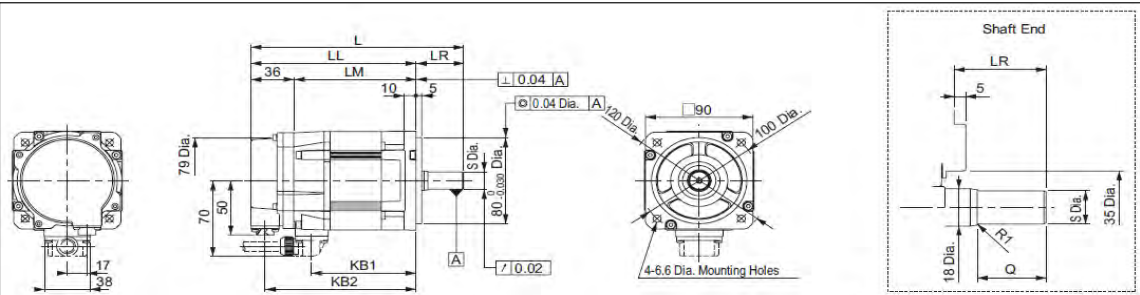
Notes:

SGMGV is a "medium inertia" motor.

The AKM crossover represents closest alternative in terms of performance and dimensions
Recommend review of AKM51 if inertia is critical

Speed/Torque Comparison (400 VAC)

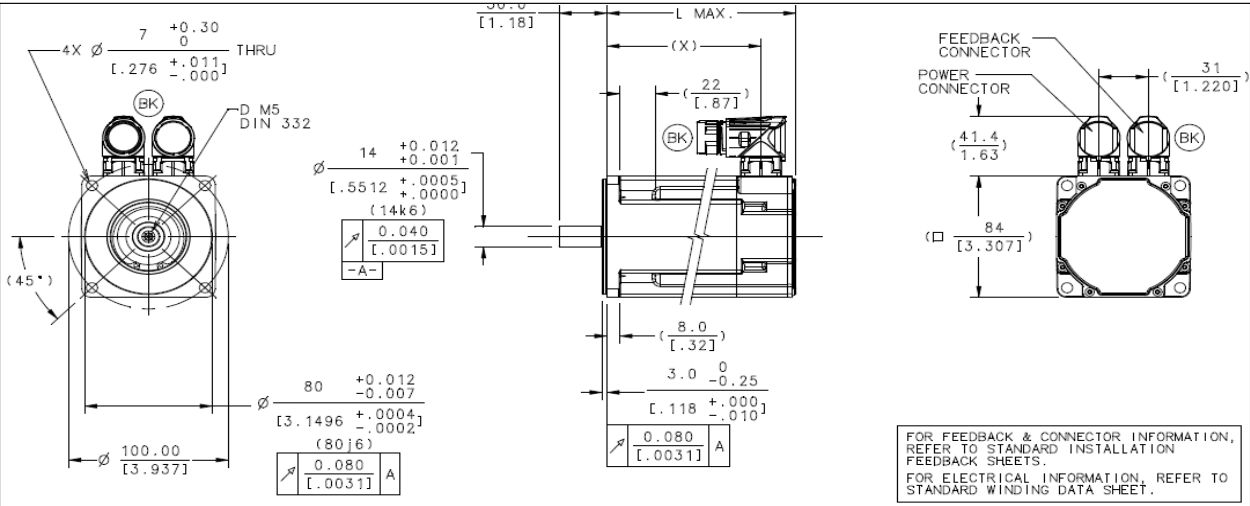




Note: For the specifications of the other shaft ends, refer to page 58.

Model SGMGV-	L	LL	LM	LR	KB1	KB2	Shaft End Dimensions		Approx. Mass kg
							S	Q	
03□□A21	163	126	90	37	75	114	14 ⁰ _{-0.011}	25	2.6
05□□A21	179	139	103	40	88	127	16 ⁰ _{-0.011}	30	3.2

Note: Models with oil seals are of the same configuration.



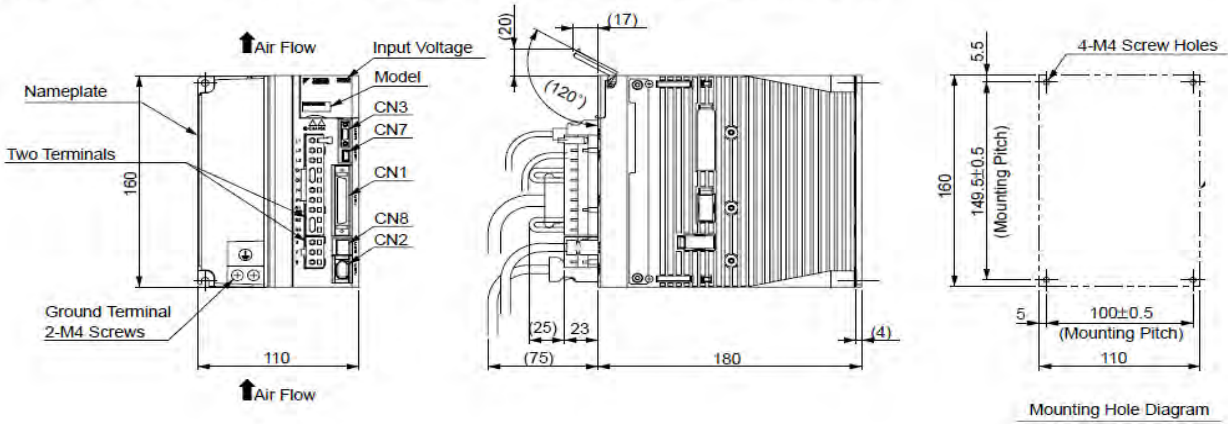
FOR FEEDBACK & CONNECTOR INFORMATION, REFER TO STANDARD INSTALLATION FEEDBACK SHEETS.
FOR ELECTRICAL INFORMATION, REFER TO STANDARD WINDING DATA SHEET.

MODEL	L MAX.	(X)
AKM41	118.8/[4.68]	(96.4/[3.80])
AKM42	147.8/[5.82]	(125.4/[4.94])
AKM43	176.8/[6.96]	(154.4/[6.08])
AKM44	205.8/[8.10]	(183.4/[7.22])

CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

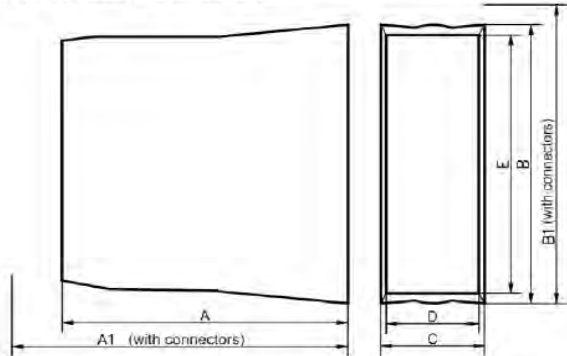
TOLERANCES APPLY TO DESIGN UNITS CONVERSIONS AND ONLY FOR ROUNDING VALUES NOTED TOLERANCES ARE:	SCALE 1/2 DWG SIZE B DO NOT SCALE PRINT	THIRD ANGLE PROJECTION DRAWN PMH CHECK TJS 03/26/04	RELEASE NO. 90179	REPLACES
DESIGN UNITS: METRIC CUSTOMARY DIM: MM IN ANGLES: X.XX 0.1/0.1 MACHINING SURFACE FINISH: 1.6 63/100 DIMENSIONS ARE TO BE MET BEFORE	KOLLMORGEN	TITLE BRUSHLESS SERVOMOTOR AKM SERIES 4 CUSTOMER STANDARD MOTOR	CATALOG LISTING AKM4GNCN	

(11) Three-phase 400 VAC, Model: SGD V-1R9D0□A, -3R5D0□A, and -5R4D0□A



Approx. Mass: 2.7 kg

Dimensions AKD-xzzz07, standard width



Standard Width	A	A1	B	B1	C	D	E
480V	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 6A, 12A	185	221	256	290	70	65	232
AKD 24A	228	264	308	340	105	99	273

12) Yaskawa SGMGV-09D/ SGDV-3R5D

		Yaskawa SGMGV-09D	Kollmorgen AKM62L-KKCNC-00
Winding Data			
Cont Stall Torque	Nm	5.39	5.92*
Cont Current	Arms	3.5	6.0*
Peak Stall Torque	Nm	13.8	16.7*
Peak Current	Arms	8.5	18*
Max Speed	RPM	3000	6000
Rotor Inertia	kg-cm ²	13.9	16.9
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	130	138
Bolt Circle Dia	mm	145	145
Pilot Diameter	mm	110	110
Shaft Dia	mm	19	28
Shaft Length	mm	58	60
Key Width	mm	N/A	8
Key Length	mm	N/A	50
Shaft End Thrd Holes	-	N/A	N/A
Length (Std FB, no brake)	mm	137	153.7
BC Thru Holes	mm	9	9
Weight	kg	5.5	8.9

		Yaskawa SGDV-3R5D	Kollmorgen AKD-P00607-NBEI-0000
Power			
RMS Continuous Current	Arms	3.5	6
RMS Peak Current	Arms	8.5	18
Input Voltage	VAC	400 (3ph)	240-480 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	185
Width	mm	110	70
Height	mm	160	256
Weight	kg	2.7	2.7

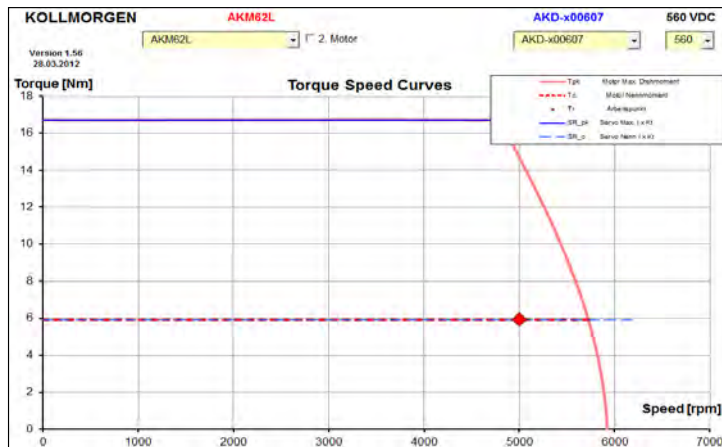
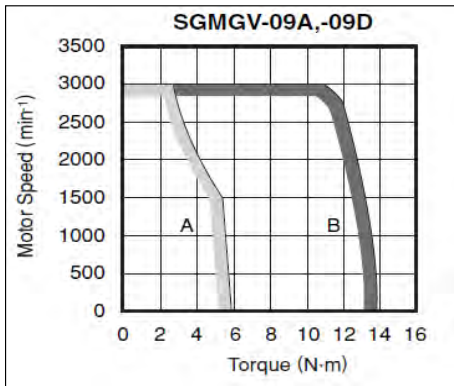
Notes:

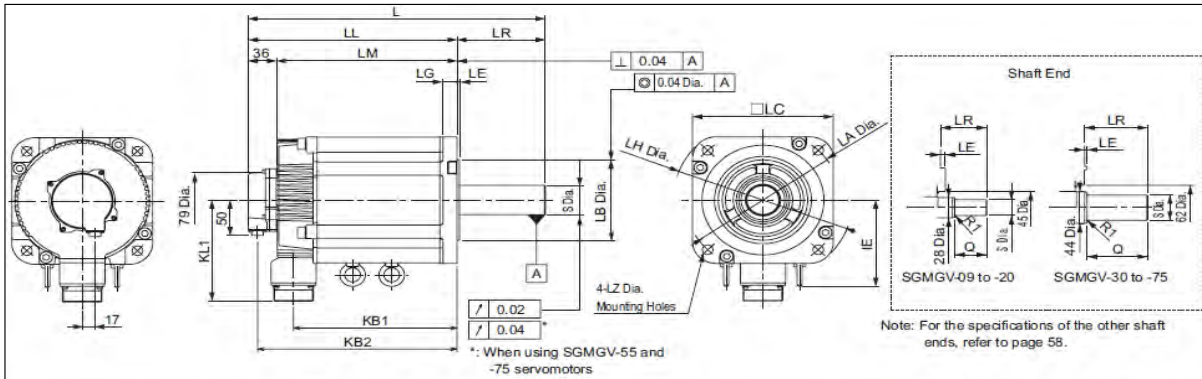
SGMGV is a "medium inertia" motor.

The AKM crossover represents closest alternative in terms of performance and dimensions
Note shaft diameter differences

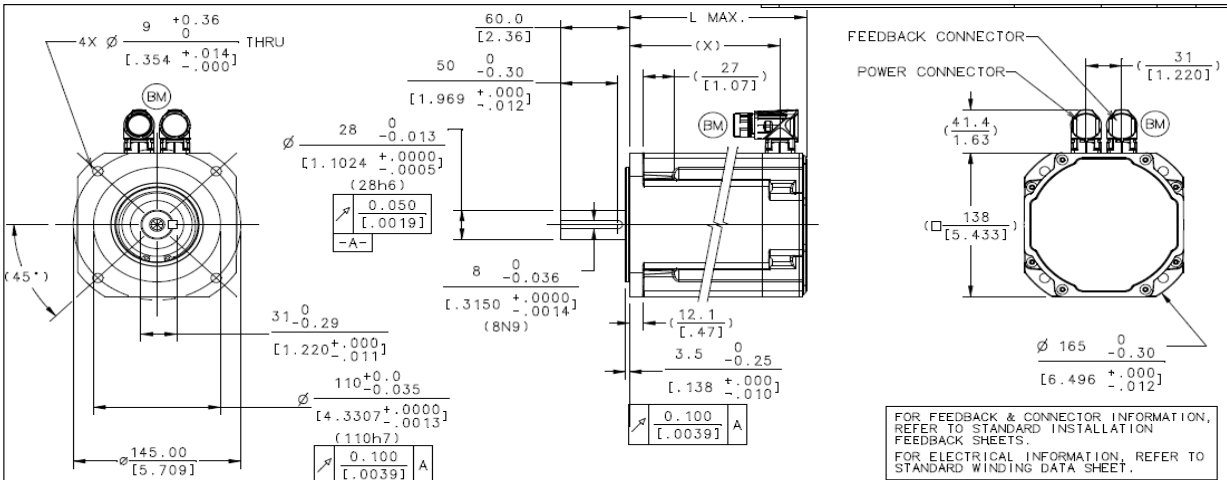
*Motor specifications when paired with AKD-P00607 drive

Speed/Torque Comparison (400 VAC)



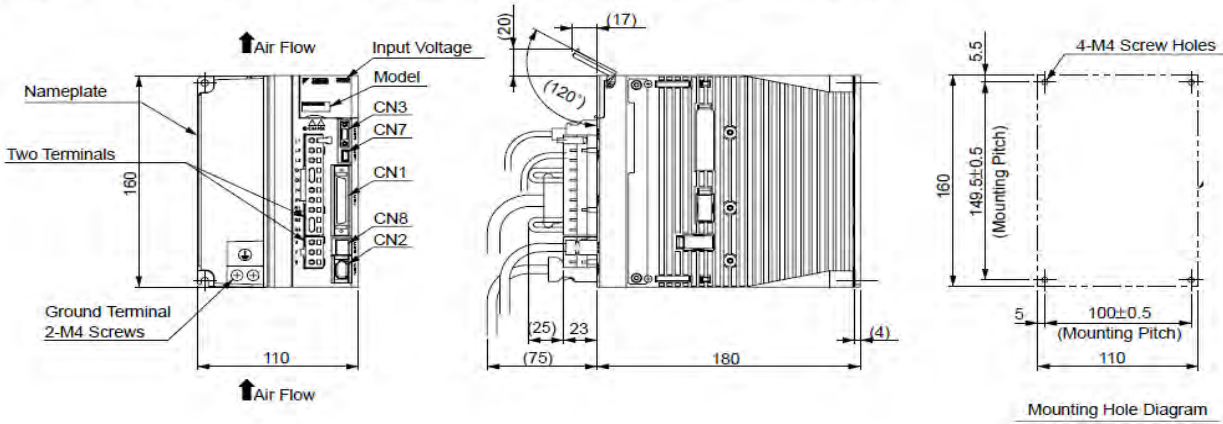


Model SGMGV-	L	LL	LM	LR	KB1	KB2	IE	KL1	Flange Face Dimensions						Shaft End Dimensions		Approx. Mass kg	
									LA	LB	LC	LE	LG	LH	LZ	S		Q
09 A21	195	137	101	58	83	125	-	104	145	110 ^{±0.035}	130	6	12	165	9	19 ^{±0.013}	40	5.5



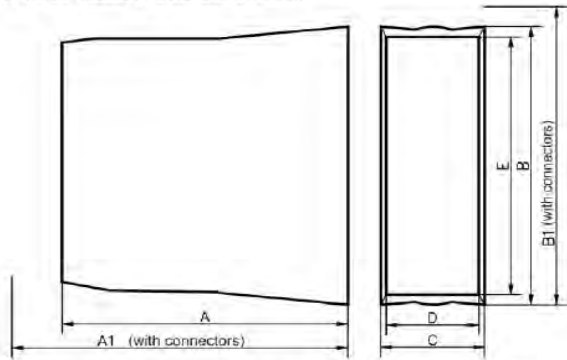
TOLERANCES APPLY TO DIMENSIONS UNLESS OTHERWISE SPECIFIED AND ONLY FOR REFERENCE UNLESS NOTED OTHERWISE. SEE A.		SCALE 3/8" = 1" DWG SIZE B	THIRD ANGLE PROJECTION	DRAWN SEO 1/19/04	RELEASE NO.	REPLACES
DO NOT SCALE PRINT				CHECK TJS 1/19/04	KFB0002	
DESIGN UNITS: METRIC CUSTOMARY DIM: INCH		THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND IS THE PROPERTY OF KOLLMORGEN. THIS DRAWING MAY NOT BE COPIED OR USED WITHOUT PRIOR WRITTEN APPROVAL OF KOLLMORGEN.		CATALOG LISTING		
ONE PLACE: X.XX 2.31/01		KOLLMORGEN		TITLE BRUSHLESS SERVOMOTOR AKM SERIES 6		
TWO PLACES: X.XX 0.13/005				CUSTOMER STANDARD MOTOR		
THREE PLACES: X.XXX 0.13/005				AKM6KKCN		
FOUR PLACES: X.XXXX 0.13/005				STANDARD MOTOR OUTLINE		
FIVE PLACES: X.XXXXX 0.13/005						
SIX PLACES: X.XXXXXX 0.13/005						
SEVEN PLACES: X.XXXXXXX 0.13/005						
EIGHT PLACES: X.XXXXXXX 0.13/005						
NINE PLACES: X.XXXXXXX 0.13/005						
TEN PLACES: X.XXXXXXX 0.13/005						
DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATING IS APPLIED						

(11) Three-phase 400 VAC, Model: SGD V-1R9D0□A, -3R5D0□A, and -5R4D0□A



Approx. Mass: 2.7 kg

Dimensions AKD-xzzz07, standard width



Standard Width	A	A1	B	B1	C	D	E
480V	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 6A, 12A	185	221	256	290	70	65	232
AKD 24A	228	264	306	340	105	99	273

13) Yaskawa SGMGV-13D/ SGDV-5R4D

		Yaskawa SGMGV-13D	Kollmorgen AKM62L-KKCNC-00
Winding Data			
Cont Stall Torque	Nm	8.34	12.2
Cont Current	Arms	5.4	12
Peak Stall Torque	Nm	23.3	30.1
Peak Current	Arms	14	36
Max Speed	RPM	3000	6000
Rotor Inertia	kg-cm ²	19.9	16.9
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	130	138
Bolt Circle Dia	mm	145	145
Pilot Diameter	mm	110	110
Shaft Dia	mm	22	28
Shaft Length	mm	58	60
Key Width	mm	N/A	8
Key Length	mm	N/A	50
Shaft End Thrd Holes	-	N/A	N/A
Length (Std FB, no brake)	mm	153	153.7
BC Thru Holes	mm	9	9
Weight	kg	7.1	8.9

		Yaskawa SGDV-5R4D01	Kollmorgen AKD-P01207-NBAN-0000
Power			
RMS Continuous Current	Arms	5.4	12
RMS Peak Current	Arms	14	30
Input Voltage	VAC	400 (3ph)	240-480 (1ph, 3ph)
Features			
Digital Inputs		7	8
Digital Outputs		3	3
Analog Inputs		1	1
Analog Outputs		0	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	180	185
Width	mm	110	70
Height	mm	160	256
Weight	kg	2.7	2.7

Notes:

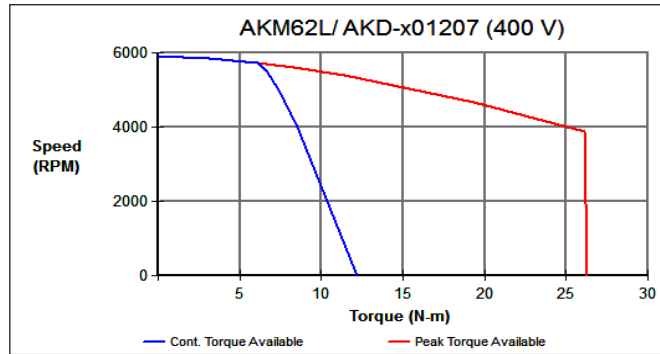
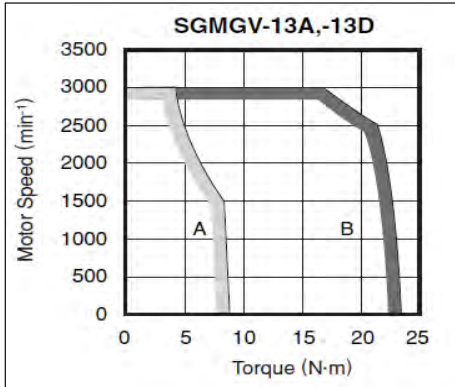
SGMGV is a "medium inertia" motor.

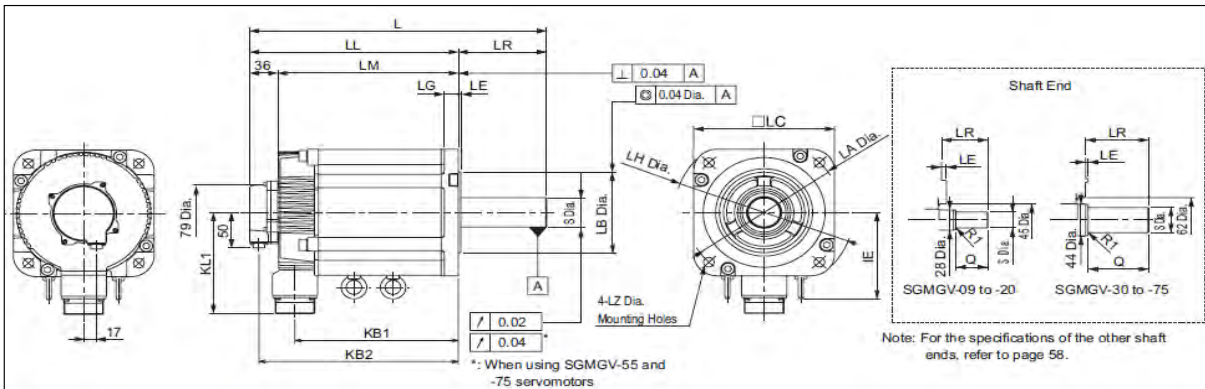
The AKM crossover represents closest alternative in terms of performance and dimensions

Note shaft diameter differences

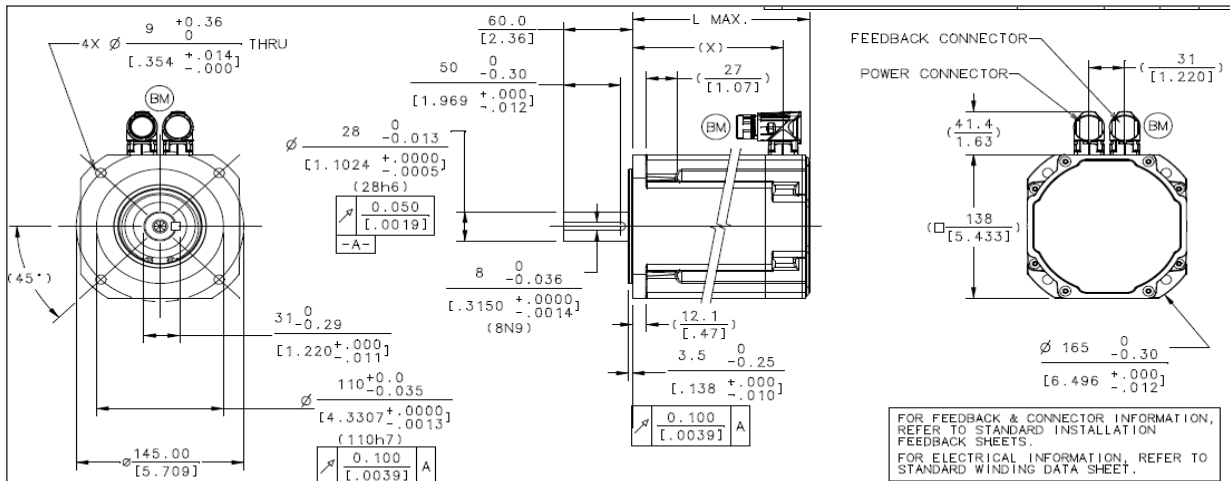
Recommend review of AKM63 if inertia is critical

Speed/Torque Comparison (400 VAC)





Model SGMGV-	L	LL	LM	LR	KB1	KB2	IE	KL1	Flange Face Dimensions						Shaft End Dimensions		Approx. Mass kg	
									LA	LB	LC	LE	LG	LH	LZ	S		Q
13□A21	211	153	117	58	99	141	-	104	145	110 ⁰ _{-0.035}	130	6	12	165	9	22 ⁰ _{-0.013}	40	7.1



FOR FEEDBACK & CONNECTOR INFORMATION, REFER TO STANDARD INSTALLATION FEEDBACK SHEETS.
FOR ELECTRICAL INFORMATION, REFER TO STANDARD WINDING DATA SHEET.

MODEL	L MAX.	(X)
AKM62	153.7/[6.05]	(130.5/[5.14])
AKM63	178.7/[7.04]	(155.5/[6.12])
AKM64	203.7/[8.02]	(180.5/[7.11])
AKM65	228.7/[9.00]	(205.5/[8.09])

CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

APPLY TO DIMENSIONS UNLESS OTHERWISE NOTED TOLERANCES ARE IN MILLIMETERS

SCALE 3/8" = 1" (1:2.5)

THIRD ANGLE PROJECTION

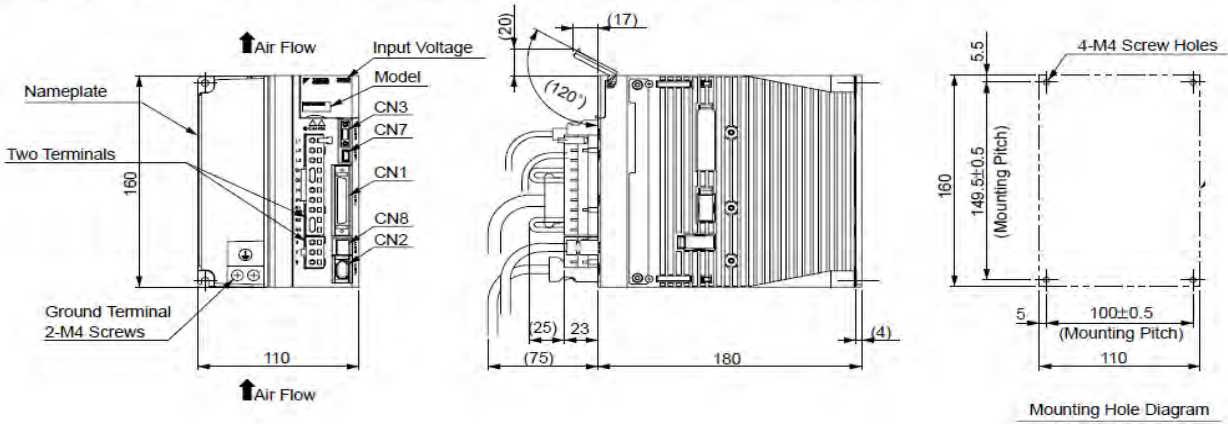
DRAWN: SEO 1/19/04
CHECK: TJS 1/19/04

TITLE: BRUSHLESS SERVMOTOR AKM SERIES 6

CUSTOMER: STANDARD MOTOR

RELEASE NO.: KFB0002
REPLACES: CATALOG LISTING AKM6KKCN

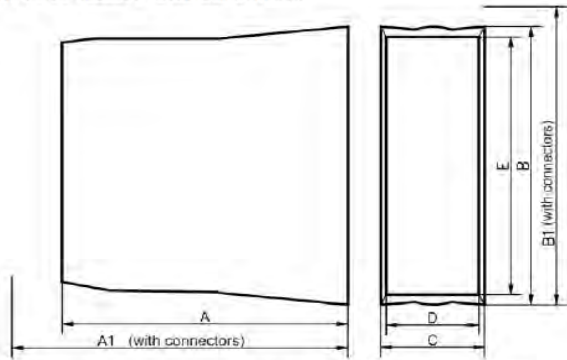
(11) Three-phase 400 VAC, Model: SGD V-1R9D0□A, -3R5D0□A, and -5R4D0□A



Mounting Hole Diagram

Approx. Mass: 2.7 kg

Dimensions AKD-xzzz07, standard width



Standard Width 480V	A	A1	B	B1	C	D	E
	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 6A, 12A	185	221	256	290	70	65	232
AKD 24A	228	264	306	340	105	99	273

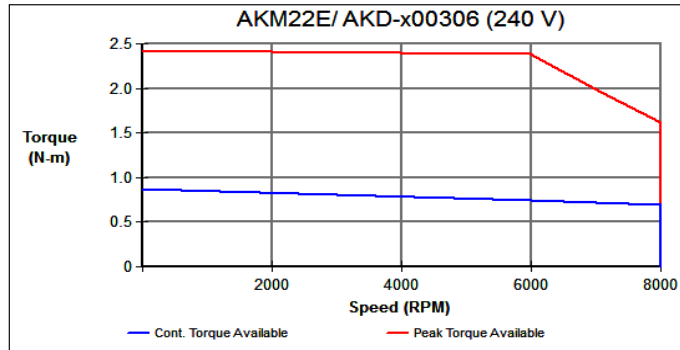
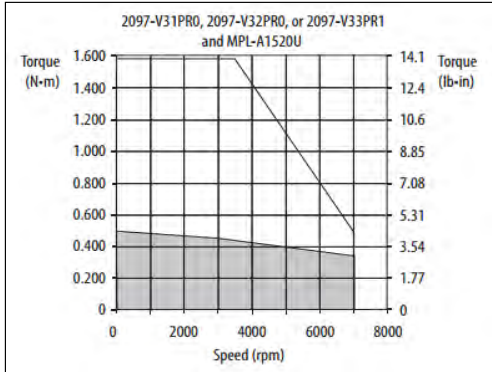
[Home](#)

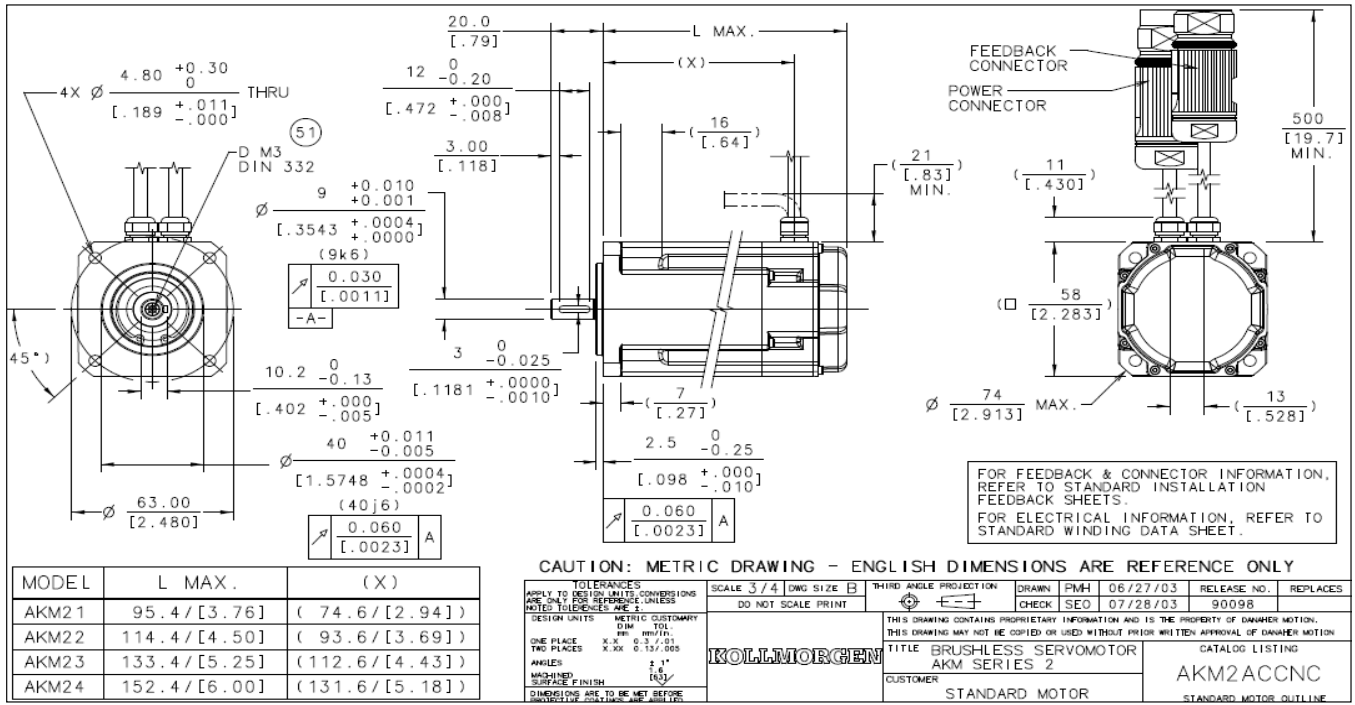
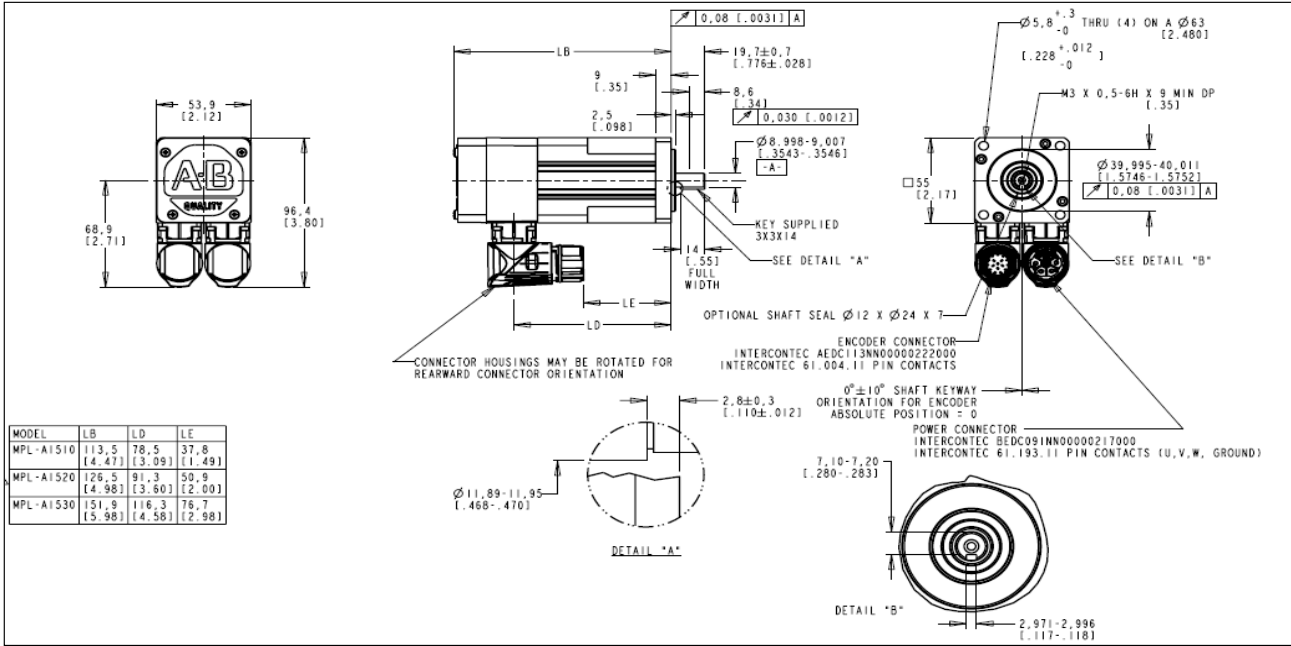
14) Rockwell MPL-A1520U / 2097-V32PRO (-LM)

		Rockwell MPL-A1520U	Kollmorgen AKM22E-ACCNC-00
Winding Data			
Cont Stall Torque	Nm	0.49	0.87
Cont Current	Arms	1.8	2.73
Peak Stall Torque	Nm	1.58	2.76
Peak Current	Arms	6.1	10.9
Max Speed	RPM	7000	8000
Rotor Inertia	kg-cm ²	0.13	0.16
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	53.9	58
Bolt Circle Dia	mm	63	63
Pilot Diameter	mm	40	40
Shaft Dia	mm	9	9
Shaft Length	mm	19.7	20
Key Width	mm	3	3
Key Length	mm	14	12
Shaft End Thrd Holes	-	M3	M3
Length (Std FB, no brake)	mm	126.5	105.2
BC Thru Holes	mm	5.8	4.8
Weight	kg	1.2	1.1

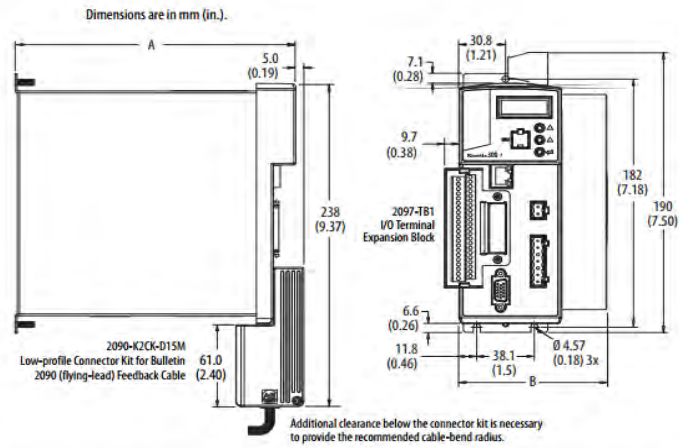
		Rockwell 2097-V32PRO (-LM)	Kollmorgen AKD-P00306-NBEI-0000
Power			
RMS Continuous Current	Arms	2.8	3
RMS Peak Current	Arms	5.7	9
Input Voltage	VAC	240 (1ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		8	8
Digital Outputs		4	3
Analog Inputs		1	1
Analog Outputs		1	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	229.6	156
Width	mm	68	59
Height	mm	182	168
Weight	kg	1.4	1.1

Speed/Torque Comparison (230/240 VAC)





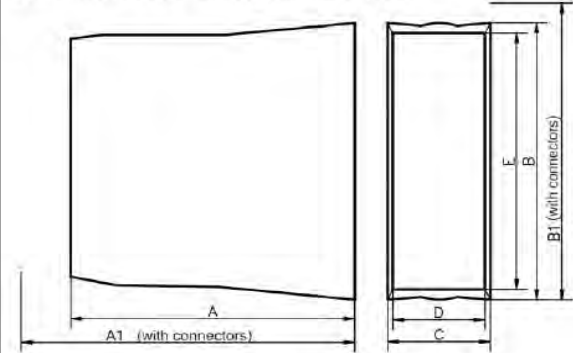
Kinetix 300 Drive Mounting Dimensions



Cat. No.	Dimensions mm (in.)	
	A	B
2097-V31PR0	185.1 (7.29)	68.0 (2.68)
2097-V31PR2	185.1 (7.29)	68.5 (2.70)
2097-V32PR0	229.6 (9.04)	68.0 (2.68)
2097-V32PR2	229.6 (9.04)	68.5 (2.70)
2097-V32PR4	229.6 (9.04)	86.8 (3.42)
2097-V33PR1	185.1 (7.29)	68.0 (2.68)

Cat. No.	Dimensions mm (in.)	
	A	B
2097-V33PR3	185.1 (7.29)	68.5 (2.70)
2097-V33PR5	185.1 (7.29)	94.4 (3.72)
2097-V33PR6	229.6 (9.04)	68.0 (2.68)
2097-V34PR3	185.1 (7.29)	68.5 (2.70)
2097-V34PR5	185.1 (7.29)	94.4 (3.72)
2097-V34PR6	229.6 (9.04)	68.0 (2.68)

Dimensions AKD-xzzz06, standard width



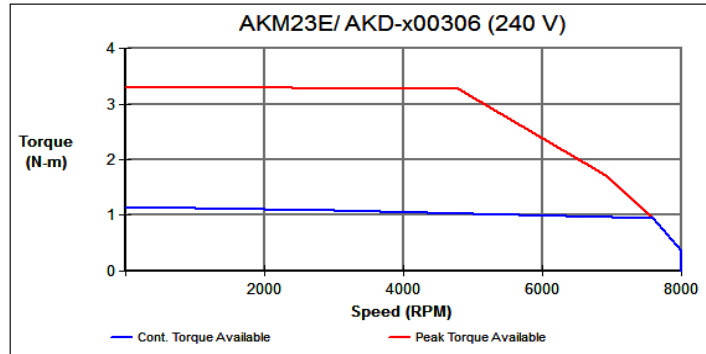
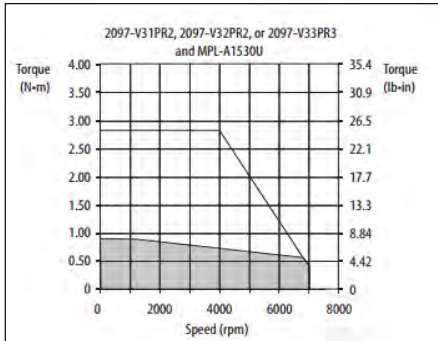
Standard Width 110 - 230V	A	A1	B	B1	C	D	E
	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 6A	156	185	168	200	59	54	150
AKD 12A	187	216	196	225	78.4	72	177
AKD 24A	228	265	248	280	100	96	217

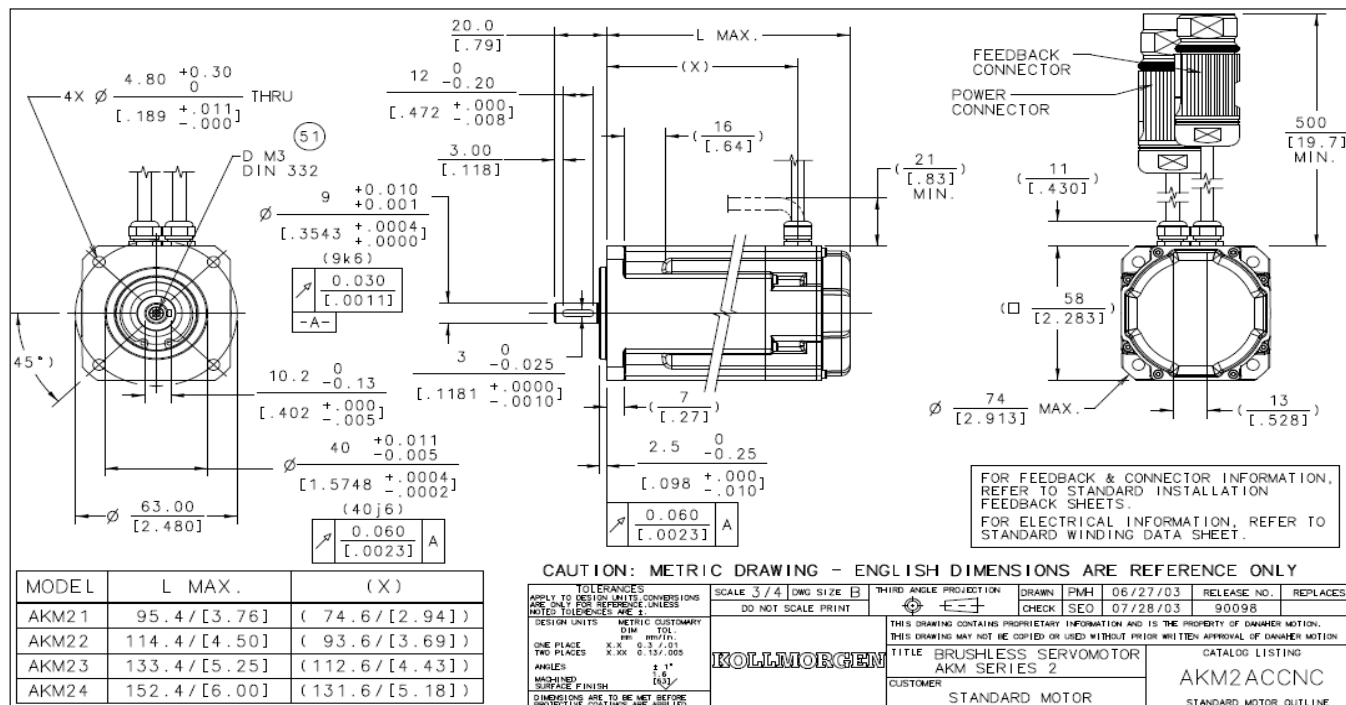
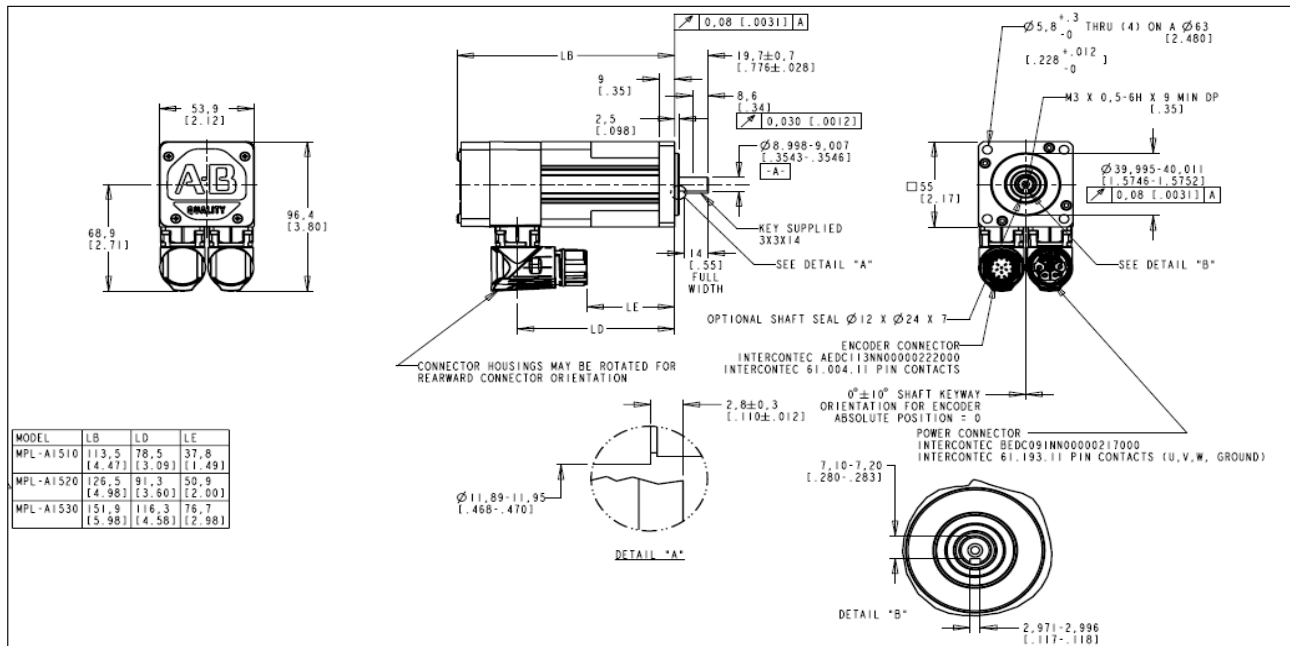
15) Rockwell MPL-A1530U / 2097-V32PR2 (-LM)

		Rockwell MPL-A1530U	Kollmorgen AKM23E-ACCNC-00
Winding Data			
Cont Stall Torque	Nm	0.9	1.16
Cont Current	Arms	2.8	2.78
Peak Stall Torque	Nm	2.8	3.86
Peak Current	Arms	10.1	11.1
Max Speed	RPM	7000	8000
Rotor Inertia	kg-cm ²	0.23	0.22
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	53.9	58
Bolt Circle Dia	mm	63	63
Pilot Diameter	mm	40	40
Shaft Dia	mm	9	9
Shaft Length	mm	19.7	20
Key Width	mm	3	3
Key Length	mm	14	12
Shaft End Thrd Holes	-	M3	M3
Length (Std FB, no brake)	mm	151.9	124.2
BC Thru Holes	mm	5.8	4.8
Weight	kg	1.6	1.38

		Rockwell 2097-V32PR2 (-LM)	Kollmorgen AKD-P00306-NBEI-0000
Power			
RMS Continuous Current	Arms	2.8	3
RMS Peak Current	Arms	5.7	9
Input Voltage	VAC	240 (1ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		8	8
Digital Outputs		4	3
Analog Inputs		1	1
Analog Outputs		1	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	229.6	156
Width	mm	68.5	59
Height	mm	182	168
Weight	kg	1.7	1.1

Speed/Torque Comparison (230/240 VAC)

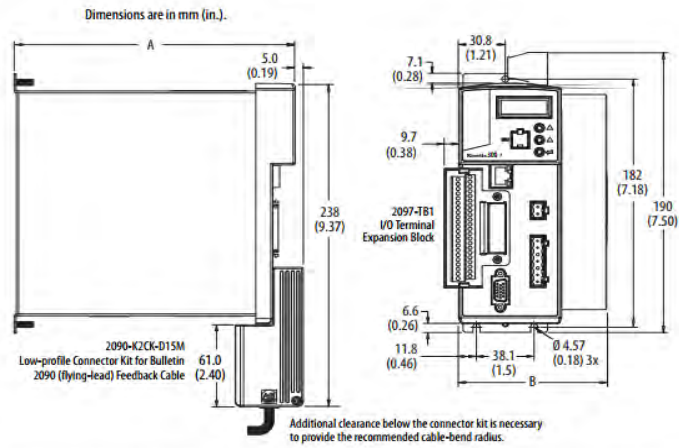




CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

TOLERANCES APPLY TO DECIMAL UNITS UNLESS OTHERWISE SPECIFIED. UNLESS NOTED TELEPHONES ARE ±. DESIGN UNITS: METRIC CUSTOMARY DIM: MM INCH ONE PLACE X.X 0.3/0.01 TWO PLACES X.XX 0.15/0.005 ANGLES ± 1° UNFINISHED SURFACE FINISH ± 1/8 (3) DIMENSIONS ARE TO BE MET BEFORE UNLESS OTHERWISE SPECIFIED.	SCALE 3/4 DWG SIZE B DO NOT SCALE PRINT	THIRD ANGLE PROJECTION 	DRAWN PMH 06/27/03 CHECK SEO 07/28/03	RELEASE NO. 90098 REPLACES
	THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND IS THE PROPERTY OF DANAHER MOTION. THIS DRAWING MAY NOT BE COPIED OR USED WITHOUT PRIOR WRITTEN APPROVAL OF DANAHER MOTION.		TITLE BRUSHLESS SERVOMOTOR AKM SERIES 2 CUSTOMER STANDARD MOTOR	CATALOG LISTING AKM2ACCNC STANDARD MOTOR OUTLINE

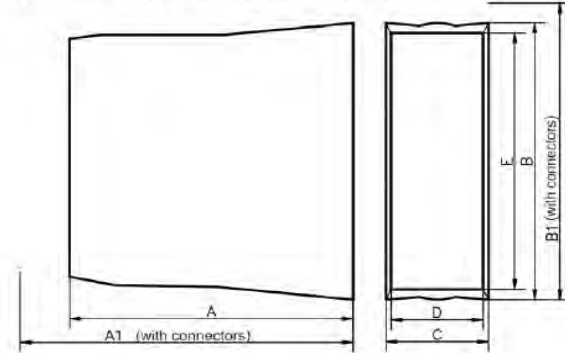
Kinetix 300 Drive Mounting Dimensions



Cat. No.	Dimensions mm (in.)	
	A	B
2097-V31PR0	185.1 (7.29)	68.0 (2.68)
2097-V31PR2	185.1 (7.29)	68.5 (2.70)
2097-V32PR0	229.6 (9.04)	68.0 (2.68)
2097-V32PR2	229.6 (9.04)	68.5 (2.70)
2097-V32PR4	229.6 (9.04)	86.8 (3.42)
2097-V33PR1	185.1 (7.29)	68.0 (2.68)

Cat. No.	Dimensions mm (in.)	
	A	B
2097-V33PR3	185.1 (7.29)	68.5 (2.70)
2097-V33PR5	185.1 (7.29)	94.4 (3.72)
2097-V33PR6	229.6 (9.04)	68.0 (2.68)
2097-V34PR3	185.1 (7.29)	68.5 (2.70)
2097-V34PR5	185.1 (7.29)	94.4 (3.72)
2097-V34PR6	229.6 (9.04)	68.0 (2.68)

Dimensions AKD-xzzz06, standard width



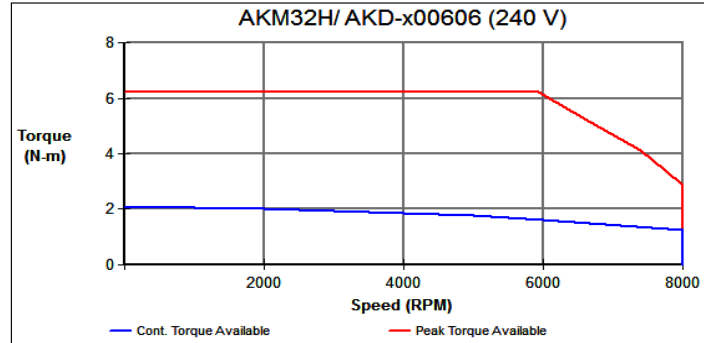
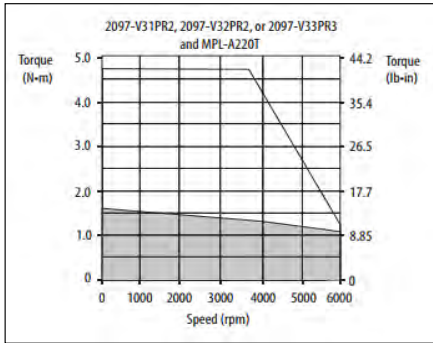
Standard Width 110 - 230V	A	A1	B	B1	C	D	E
	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 6A	156	185	168	200	59	54	150
AKD 12A	187	216	196	225	78.4	72	177
AKD 24A	228	265	248	280	100	96	217

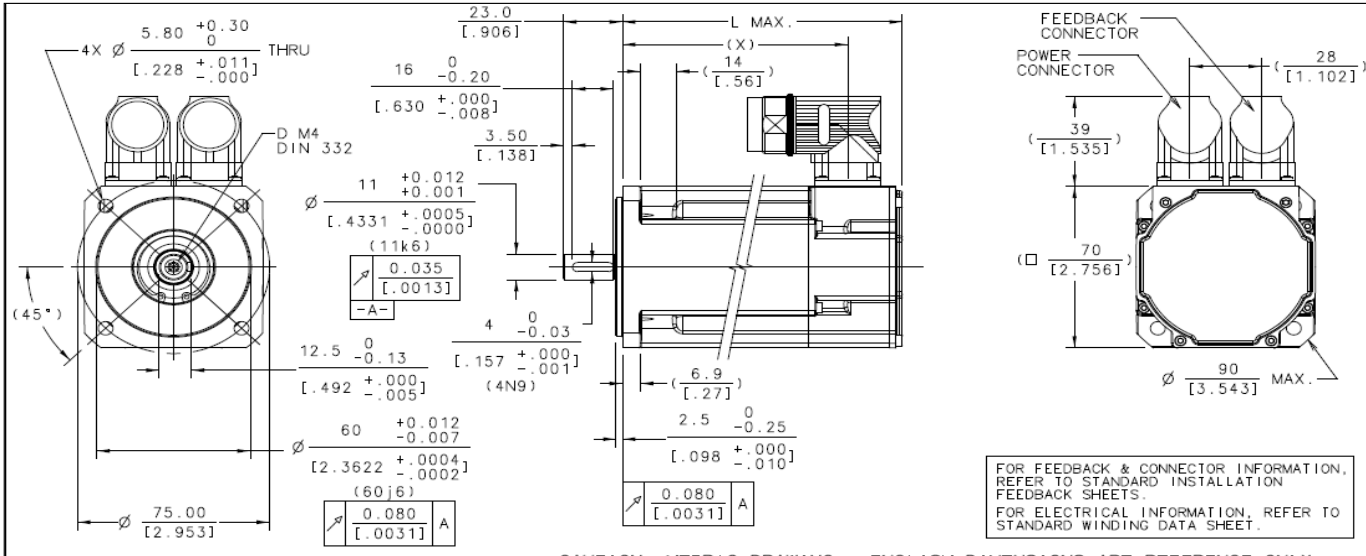
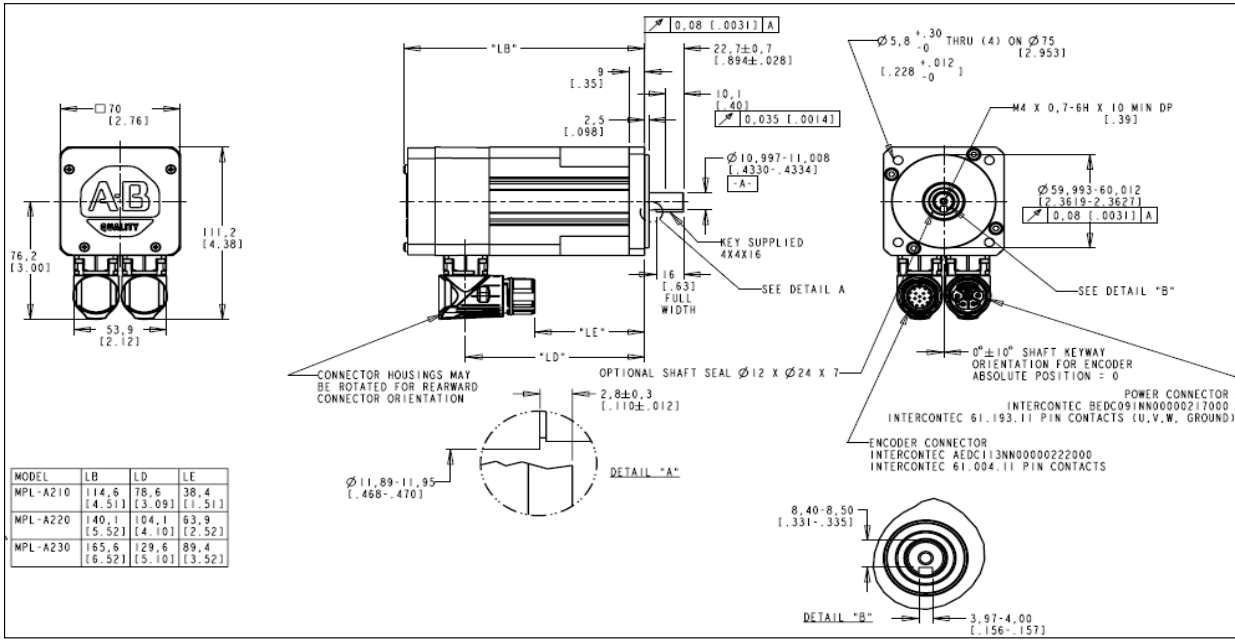
16) Rockwell MPL-A220T / 2097-V32PR2 (-LM)

		Rockwell MPL-A220T	Kollmorgen AKM32H-GCCNC-00
Winding Data			
Cont Stall Torque	Nm	1.61	2.1
Cont Current	Arms	4.5	5.5
Peak Stall Torque	Nm	4.74	7.26
Peak Current	Arms	15.5	22
Max Speed	RPM	6000	8000
Rotor Inertia	kg-cm ²	0.39	0.59
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	70	70
Bolt Circle Dia	mm	75	75
Pilot Diameter	mm	60	60
Shaft Dia	mm	11	11
Shaft Length	mm	22.7	23
Key Width	mm	4	4
Key Length	mm	16	16
Shaft End Thrd Holes	-	M4	M5
Length (Std FB, no brake)	mm	140.1	140.8
BC Thru Holes	mm	5.8	5.8
Weight	kg	2.0	2.23

		Rockwell 2097-V32PR2 (-LM)	Kollmorgen AKD-P00606-NBEI-0000
Power			
RMS Continuous Current	Arms	2.8	6
RMS Peak Current	Arms	5.7	18
Input Voltage	VAC	240 (1ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		8	8
Digital Outputs		4	3
Analog Inputs		1	1
Analog Outputs		1	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	229.6	156
Width	mm	68.5	59
Height	mm	182	168
Weight	kg	1.7	1.1

Speed/Torque Comparison (230/240 VAC)

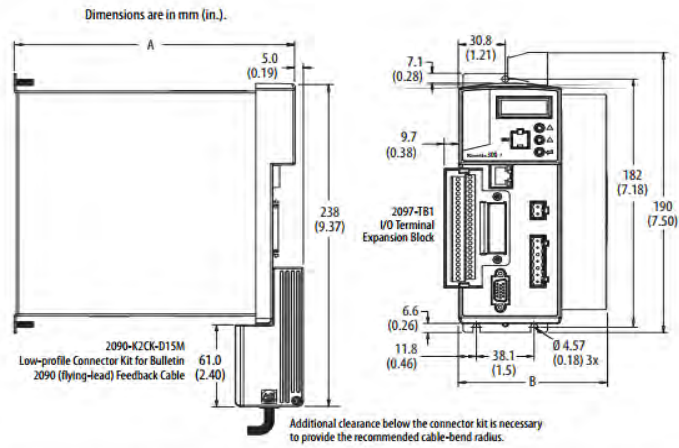




CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

TOLERANCES APPLY TO DESIGN UNITS UNLESS NOTED OTHERWISE UNLESS NOTED OTHERWISE DESIGN UNITS: METRIC CUSTOMARY DIM: mm/in. ONE PLACE: X.X TWO PLACES: X.XX ANGLES: °' FINISH: F 1" DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED	SCALE 3/4 DWG SIZE B DO NOT SCALE PRINT THIRD ANGLE PROJECTION DRAWN PMH 03/24/04 CHECK TJS 03/24/04 THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND IS THE PROPERTY OF DANAHER MOTION. THIS DRAWING MAY NOT BE COPIED OR USED WITHOUT PRIOR WRITTEN APPROVAL OF DANAHER MOTION. TITLE BRUSHLESS SERVOMOTOR AKM SERIES 3 CUSTOMER STANDARD MOTOR	RELEASE NO. 90183 REPLACES CATALOG LISTING AKM3GCCN STANDARD MOTOR OUTLINE
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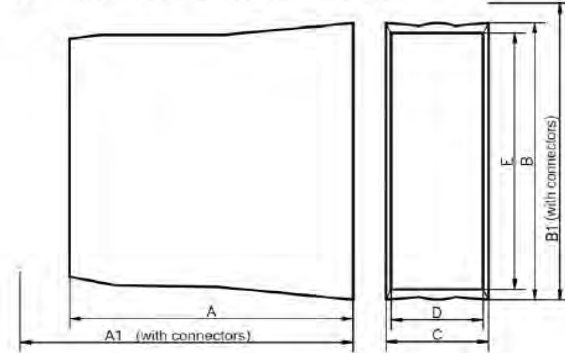
Kinetix 300 Drive Mounting Dimensions



Cat. No.	Dimensions mm (in.)	
	A	B
2097-V31PR0	185.1 (7.29)	68.0 (2.68)
2097-V31PR2	185.1 (7.29)	68.5 (2.70)
2097-V32PR0	229.6 (9.04)	68.0 (2.68)
2097-V32PR2	229.6 (9.04)	68.5 (2.70)
2097-V32PR4	229.6 (9.04)	86.8 (3.42)
2097-V33PR1	185.1 (7.29)	68.0 (2.68)

Cat. No.	Dimensions mm (in.)	
	A	B
2097-V33PR3	185.1 (7.29)	68.5 (2.70)
2097-V33PR5	185.1 (7.29)	94.4 (3.72)
2097-V33PR6	229.6 (9.04)	68.0 (2.68)
2097-V34PR3	185.1 (7.29)	68.5 (2.70)
2097-V34PR5	185.1 (7.29)	94.4 (3.72)
2097-V34PR6	229.6 (9.04)	68.0 (2.68)

Dimensions AKD-xzzz06, standard width



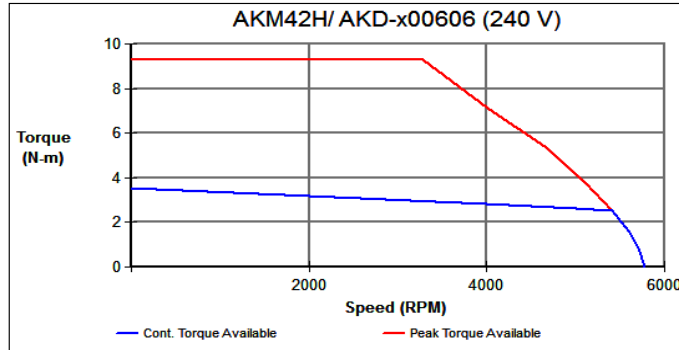
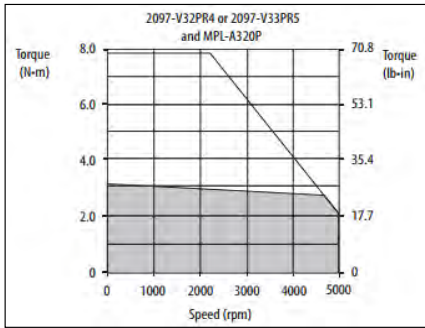
Standard Width 110 - 230V	A	A1	B	B1	C	D	E
	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 6A	156	185	168	200	59	54	150
AKD 12A	187	216	196	225	78.4	72	177
AKD 24A	228	265	248	280	100	96	217

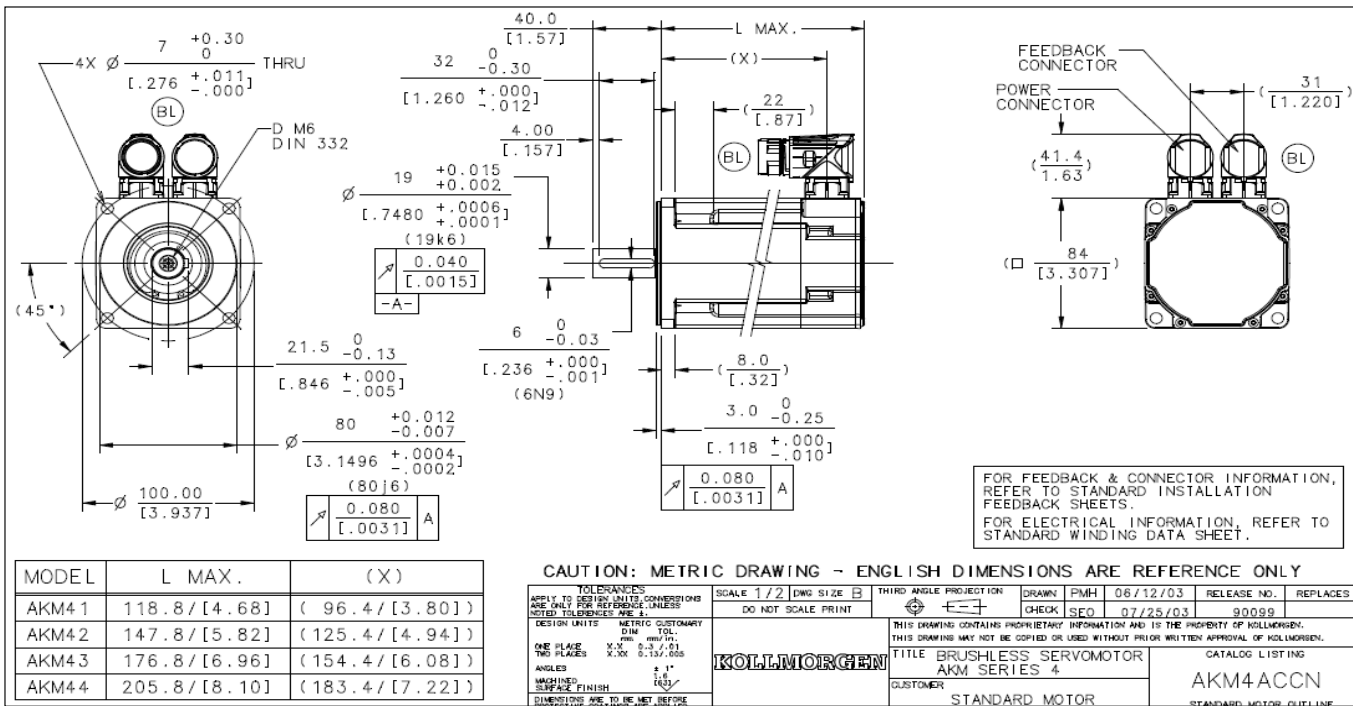
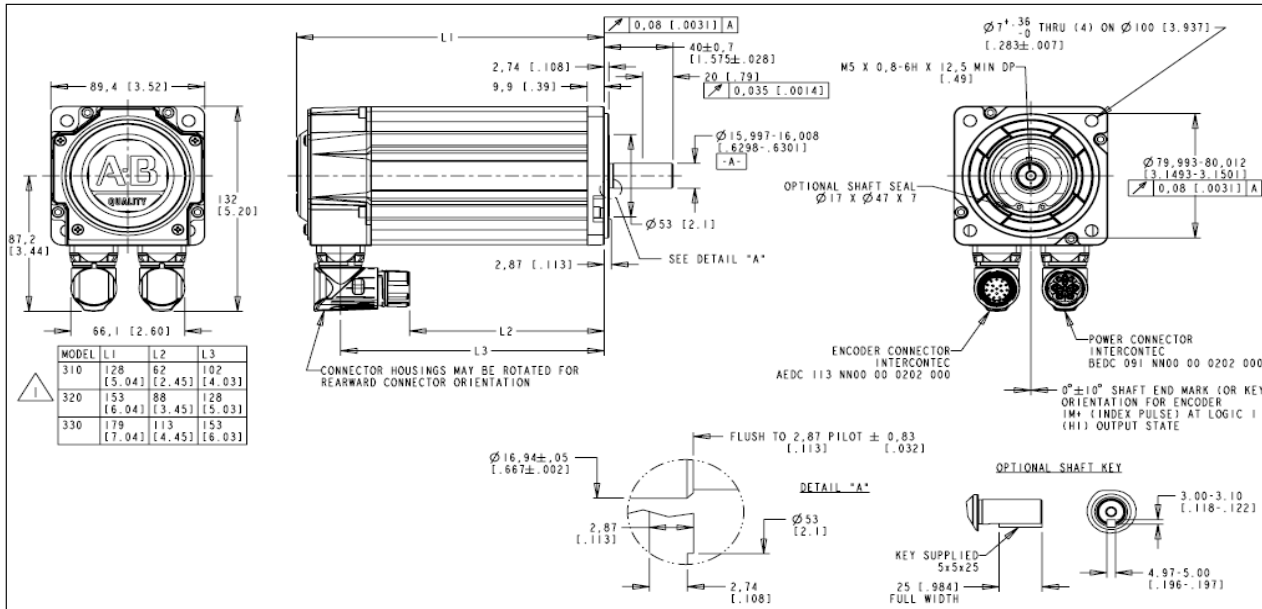
17) Rockwell MPL-A320P / 2097-V32PR4 (-LM)

		Rockwell MPL-A320P	Kollmorgen AKM42H-ACCNC-00
Winding Data			
Cont Stall Torque	Nm	3.05	3.54
Cont Current	Arms	9	6
Peak Stall Torque	Nm	7.91	11.6
Peak Current	Arms	29.5	24
Max Speed	RPM	5000	6000
Rotor Inertia	kg-cm ²	0.78	1.45
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	89.4	84
Bolt Circle Dia	mm	100	100
Pilot Diameter	mm	80	80
Shaft Dia	mm	16	19
Shaft Length	mm	40	40
Key Width	mm	5	6
Key Length	mm	25	32
Shaft End Thrd Holes	-	M5	M6
Length (Std FB, no brake)	mm	153	147.8
BC Thru Holes	mm	7	7
Weight	kg	3.7	3.39

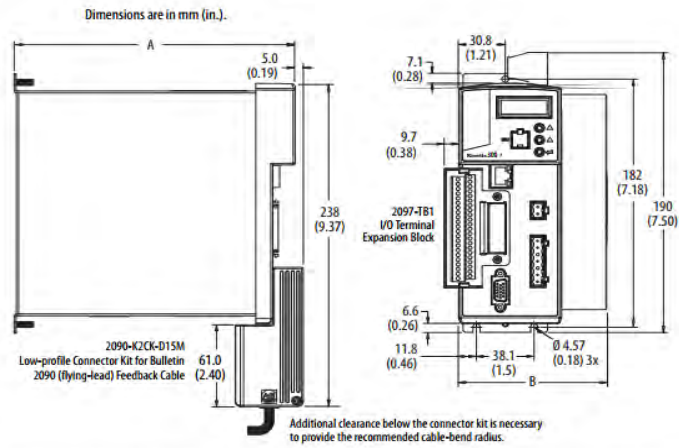
		Rockwell 2097-V32PR4 (-LM)	Kollmorgen AKD-P00606-NBEI-0000
Power			
RMS Continuous Current	Arms	2.8	6
RMS Peak Current	Arms	5.7	18
Input Voltage	VAC	240 (1ph)	120-240 (1ph, 3ph)
Features			
Digital Inputs		8	8
Digital Outputs		4	3
Analog Inputs		1	1
Analog Outputs		1	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	229.6	156
Width	mm	86.8	59
Height	mm	182	168
Weight	kg	2.2	1.1

Speed/Torque Comparison (230/240 VAC)





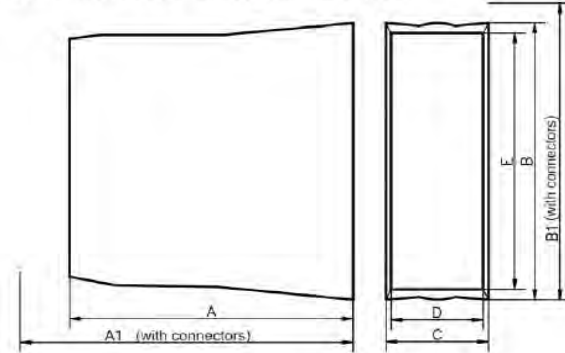
Kinetix 300 Drive Mounting Dimensions



Cat. No.	Dimensions mm (in.)	
	A	B
2097-V31PR0	185.1 (7.29)	68.0 (2.68)
2097-V31PR2	185.1 (7.29)	68.5 (2.70)
2097-V32PR0	229.6 (9.04)	68.0 (2.68)
2097-V32PR2	229.6 (9.04)	68.5 (2.70)
2097-V32PR4	229.6 (9.04)	86.8 (3.42)
2097-V33PR1	185.1 (7.29)	68.0 (2.68)

Cat. No.	Dimensions mm (in.)	
	A	B
2097-V33PR3	185.1 (7.29)	68.5 (2.70)
2097-V33PR5	185.1 (7.29)	94.4 (3.72)
2097-V33PR6	229.6 (9.04)	68.0 (2.68)
2097-V34PR3	185.1 (7.29)	68.5 (2.70)
2097-V34PR5	185.1 (7.29)	94.4 (3.72)
2097-V34PR6	229.6 (9.04)	68.0 (2.68)

Dimensions AKD-xzzz06, standard width



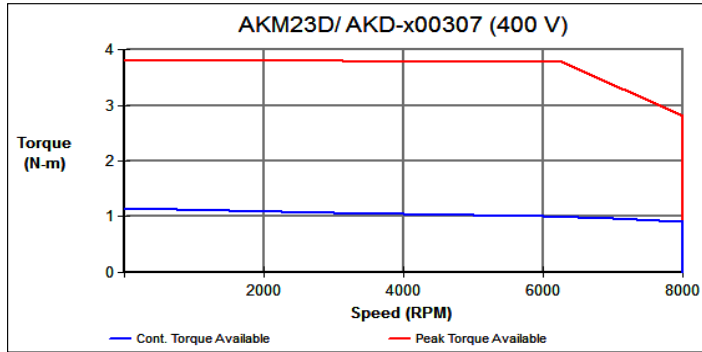
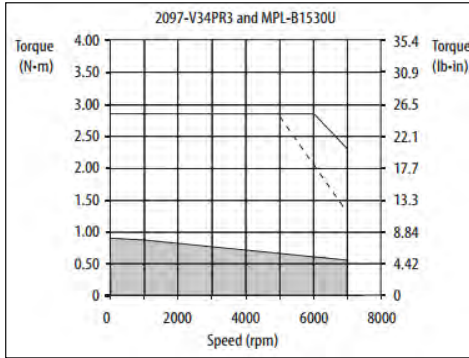
Standard Width 110 - 230V	A	A1	B	B1	C	D	E
	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 6A	156	185	168	200	59	54	150
AKD 12A	187	216	196	225	78.4	72	177
AKD 24A	228	265	248	280	100	96	217

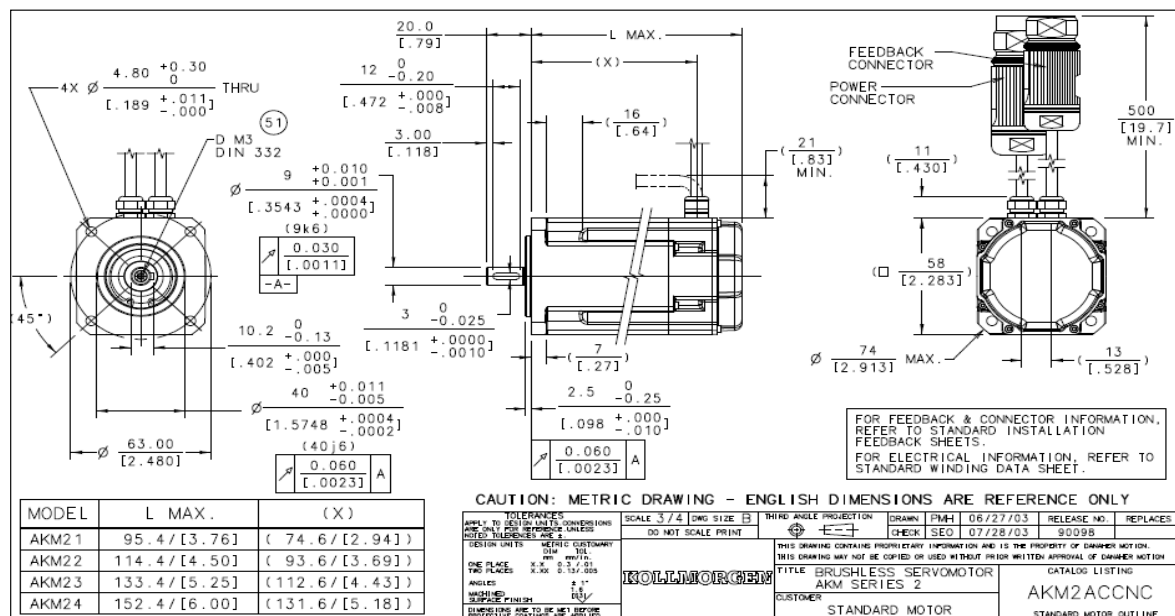
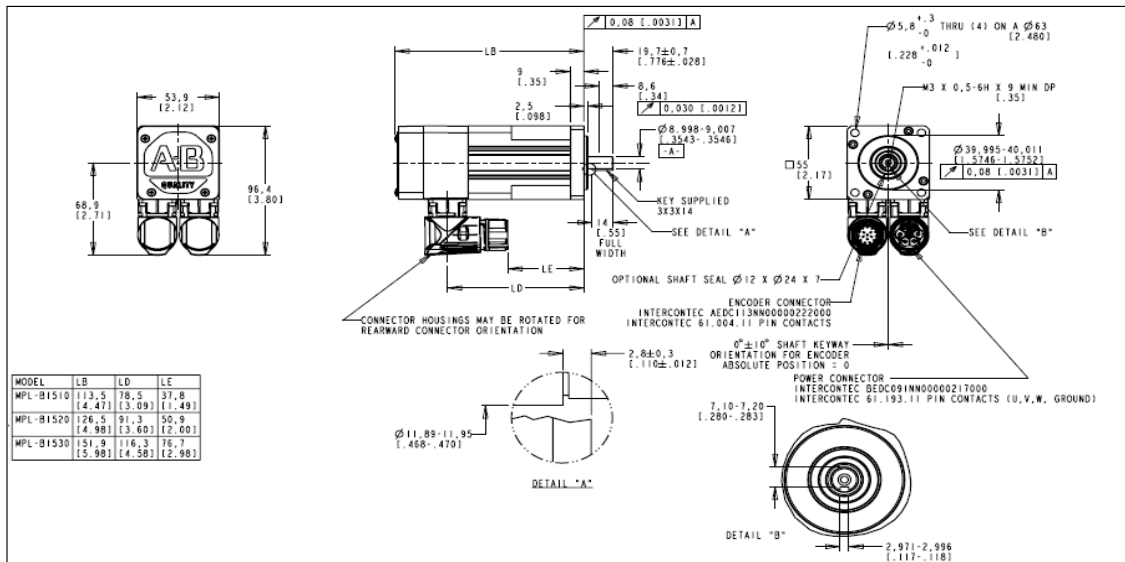
18) Rockwell MPL-B1530U / 2097-V34PR3 (-LM)

		Rockwell MPL-B1530U	Kollmorgen AKM23E-ACCNC-00
Winding Data			
Cont Stall Torque	Nm	0.9	1.16
Cont Current	Arms	2	2.19
Peak Stall Torque	Nm	2.8	3.84
Peak Current	Arms	7.2	8.8
Max Speed	RPM	7000	8000
Rotor Inertia	kg-cm ²	0.23	0.22
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	53.9	58
Bolt Circle Dia	mm	63	63
Pilot Diameter	mm	40	40
Shaft Dia	mm	9	9
Shaft Length	mm	19.7	20
Key Width	mm	3	3
Key Length	mm	14	12
Shaft End Thrd Holes	-	M3	M3
Length (Std FB, no brake)	mm	151.9	133.4
BC Thru Holes	mm	5.8	4.8
Weight	kg	1.6	1.38

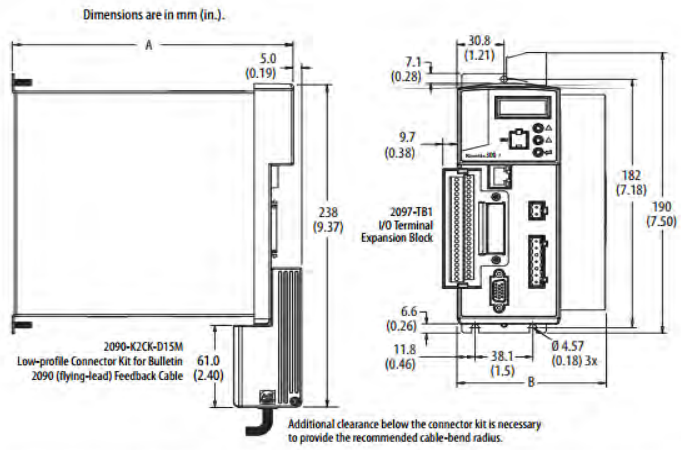
		Rockwell 2097-V34PR3 (-LM)	Kollmorgen AKD-P00307-NBEI-0000
Power			
RMS Continuous Current	Arms	2.8	3
RMS Peak Current	Arms	5.7	9
Input Voltage	VAC	480 (3ph)	240-480 (1ph, 3ph)
Features			
Digital Inputs		8	8
Digital Outputs		4	3
Analog Inputs		1	1
Analog Outputs		1	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	185.1	185
Width	mm	68.5	70
Height	mm	182	256
Weight	kg	1.5	2.7

Speed/Torque Comparison (400 VAC)





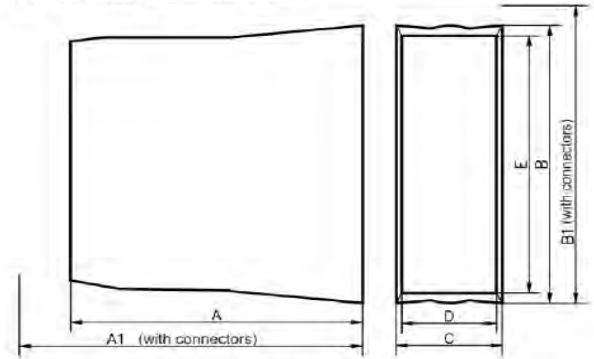
Kinetix 300 Drive Mounting Dimensions



Cat. No.	Dimensions mm (in.)	
	A	B
2097-V31PR0	185.1 (7.29)	68.0 (2.68)
2097-V31PR2	185.1 (7.29)	68.5 (2.70)
2097-V32PR0	229.6 (9.04)	68.0 (2.68)
2097-V32PR2	229.6 (9.04)	68.5 (2.70)
2097-V32PR4	229.6 (9.04)	86.8 (3.42)
2097-V33PR1	185.1 (7.29)	68.0 (2.68)

Cat. No.	Dimensions mm (in.)	
	A	B
2097-V33PR3	185.1 (7.29)	68.5 (2.70)
2097-V33PR5	185.1 (7.29)	94.4 (3.72)
2097-V33PR6	229.6 (9.04)	68.0 (2.68)
2097-V34PR3	185.1 (7.29)	68.5 (2.70)
2097-V34PR5	185.1 (7.29)	94.4 (3.72)
2097-V34PR6	229.6 (9.04)	68.0 (2.68)

Dimensions AKD-xzzz07, standard width



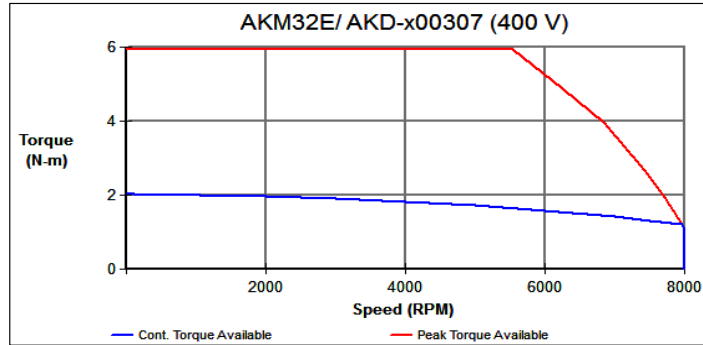
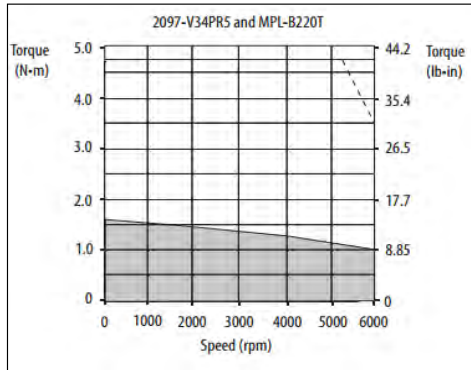
Standard Width	A	A1	B	B1	C	D	E
480V	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 5A, 12A	185	221	256	290	70	65	232
AKD 24A	228	264	306	340	105	99	273

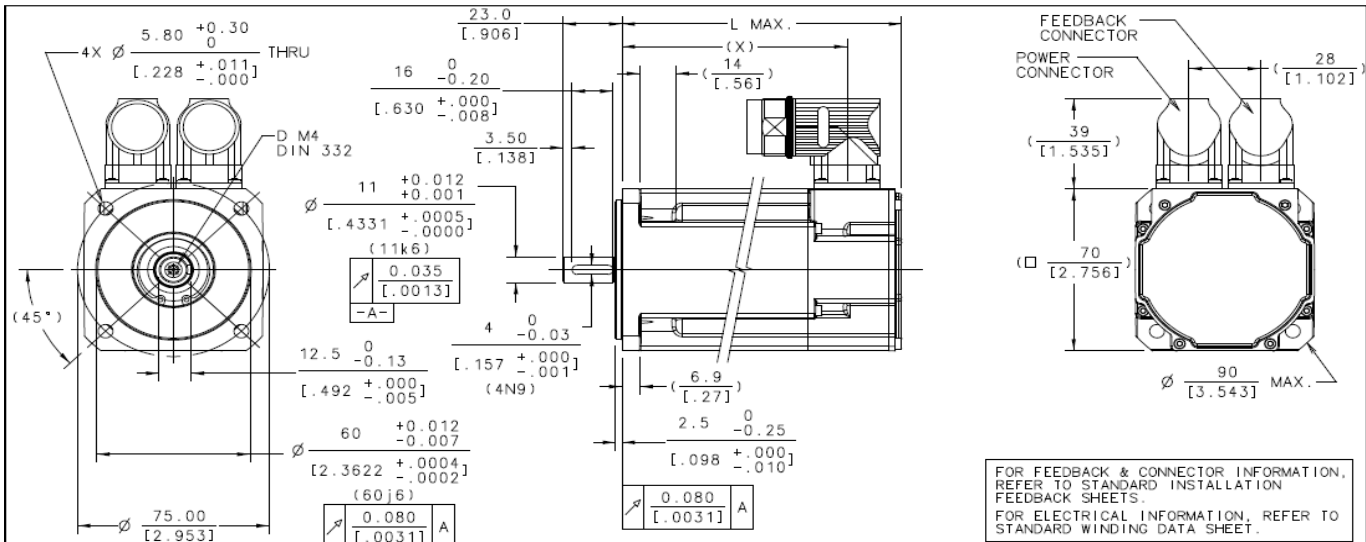
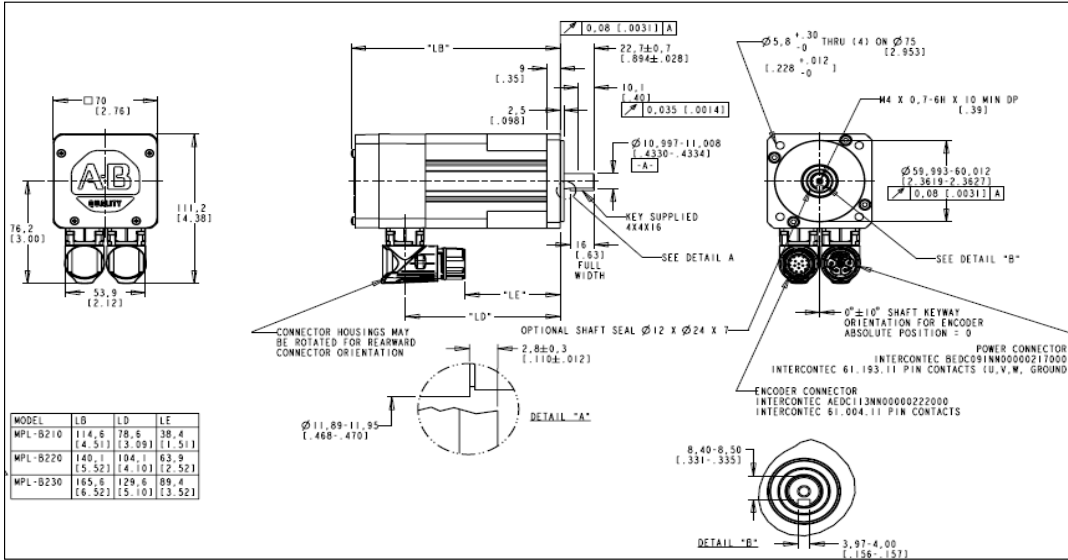
19) Rockwell MPL-B220T / 2097-V34PR5 (-LM)

		Rockwell MPL-B220T	Kollmorgen AKM32E-GCCNC-00
Winding Data			
Cont Stall Torque	Nm	1.61	2.04
Cont Current	Arms	3.3	2.82
Peak Stall Torque	Nm	4.74	7.11
Peak Current	Arms	11.3	11.3
Max Speed	RPM	6000	8000
Rotor Inertia	kg-cm ²	0.39	0.59
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	70	70
Bolt Circle Dia	mm	75	75
Pilot Diameter	mm	60	60
Shaft Dia	mm	11	11
Shaft Length	mm	22.7	23
Key Width	mm	4	4
Key Length	mm	16	16
Shaft End Thrd Holes	-	M4	M5
Length (Std FB, no brake)	mm	140.1	140.8
BC Thru Holes	mm	5.8	5.8
Weight	kg	2.0	2.23

		Rockwell 2097-V34PR5 (-LM)	Kollmorgen AKD-P00307-NBEI-0000
Power			
RMS Continuous Current	Arms	2.8	3
RMS Peak Current	Arms	5.7	9
Input Voltage	VAC	480 (3ph)	240-480 (1ph, 3ph)
Features			
Digital Inputs		8	8
Digital Outputs		4	3
Analog Inputs		1	1
Analog Outputs		1	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	185.1	185
Width	mm	94.4	70
Height	mm	182	256
Weight	kg	2.0	2.7

Speed/Torque Comparison (400 VAC)



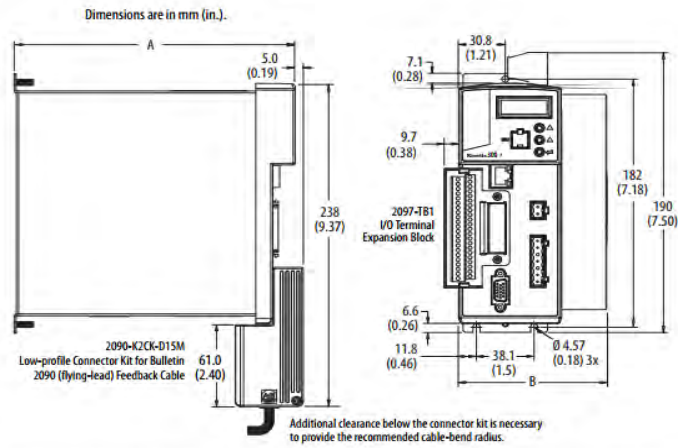


MODEL	L MAX.	(X)
AKM31	109.8/[4.32]	(87.9/[3.46])
AKM32	140.8/[5.54]	(118.9/[4.68])
AKM33	171.8/[6.76]	(149.9/[5.90])

CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

TOLERANCES		SCALE 3/4 DWG SIZE B	THIRD ANGLE PROJECTION	DRAWN PMH	03/24/04	RELEASE NO.	REPLACES
APPLY TO DESIGN UNITS UNLESS NOTED OTHERWISE		DO NOT SCALE PRINT	+	CHECK TJS	03/24/04	90183	
DESIGN UNITS: METRIC CUSTOMARY DIM TOL. ONE PLACE X.X 0.3/.01 TWO PLACES X.XX 0.13/.005 ANGLES ±.1° MACHINED SURFACE FINISH (AS) DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED		KOLLMORGEN		THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND IS THE PROPERTY OF DANMOR MOTION. THIS DRAWING MAY NOT BE COPIED OR USED WITHOUT PRIOR WRITTEN APPROVAL OF DANMOR MOTION.		CATALOG LISTING	
				TITLE BRUSHLESS SERVOMOTOR AKM SERIES 3		AKM3GCCN	
				CUSTOMER STANDARD MOTOR		STANDARD MOTOR OUTLINE	

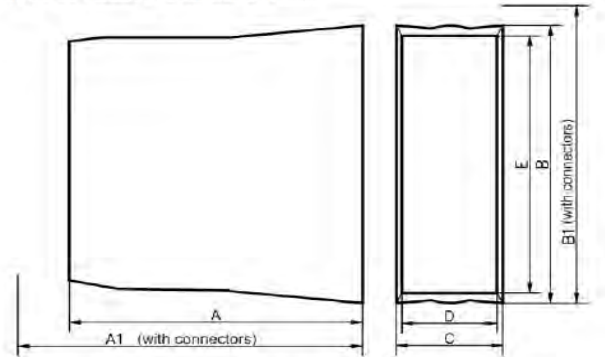
Kinetix 300 Drive Mounting Dimensions



Cat. No.	Dimensions mm (in.)	
	A	B
2097-V31PR0	185.1 (7.29)	68.0 (2.68)
2097-V31PR2	185.1 (7.29)	68.5 (2.70)
2097-V32PR0	229.6 (9.04)	68.0 (2.68)
2097-V32PR2	229.6 (9.04)	68.5 (2.70)
2097-V32PR4	229.6 (9.04)	86.8 (3.42)
2097-V33PR1	185.1 (7.29)	68.0 (2.68)

Cat. No.	Dimensions mm (in.)	
	A	B
2097-V33PR3	185.1 (7.29)	68.5 (2.70)
2097-V33PR5	185.1 (7.29)	94.4 (3.72)
2097-V33PR6	229.6 (9.04)	68.0 (2.68)
2097-V34PR3	185.1 (7.29)	68.5 (2.70)
2097-V34PR5	185.1 (7.29)	94.4 (3.72)
2097-V34PR6	229.6 (9.04)	68.0 (2.68)

Dimensions AKD-xxxx07, standard width



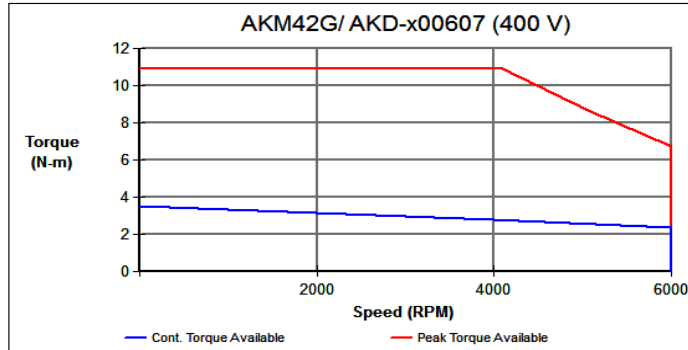
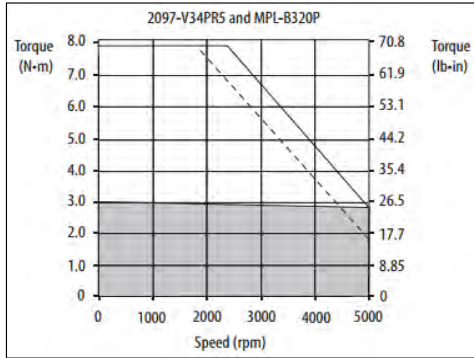
Standard Width	A	A1	B	B1	C	D	E
480V	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 6A, 12A	185	221	256	290	70	65	232
AKD 24A	228	264	306	340	105	99	273

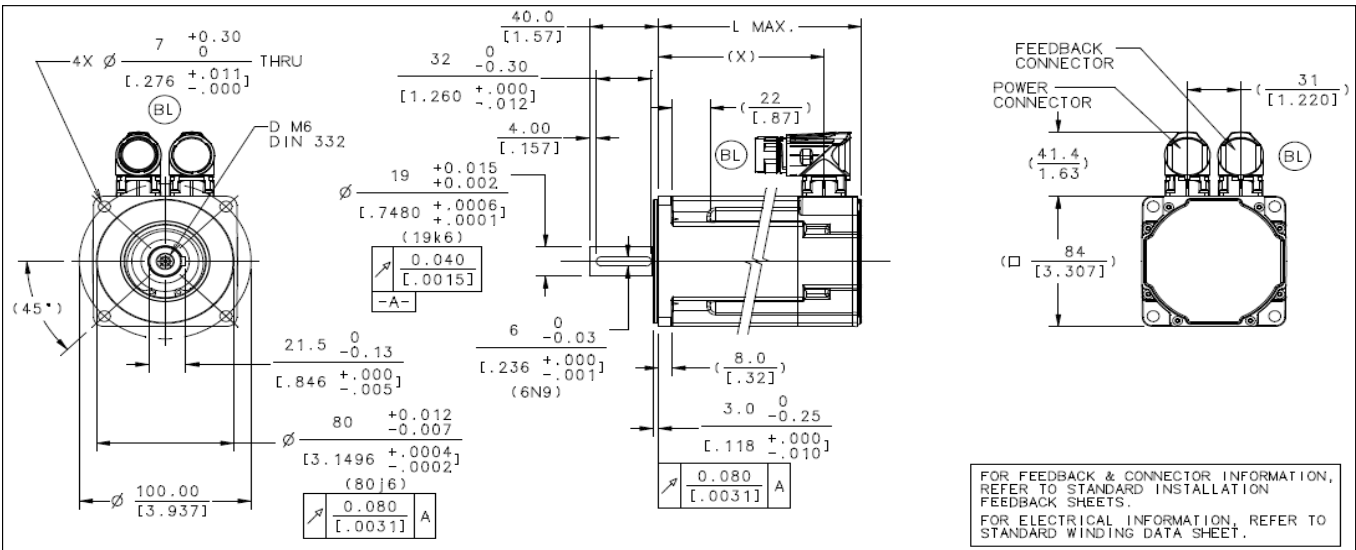
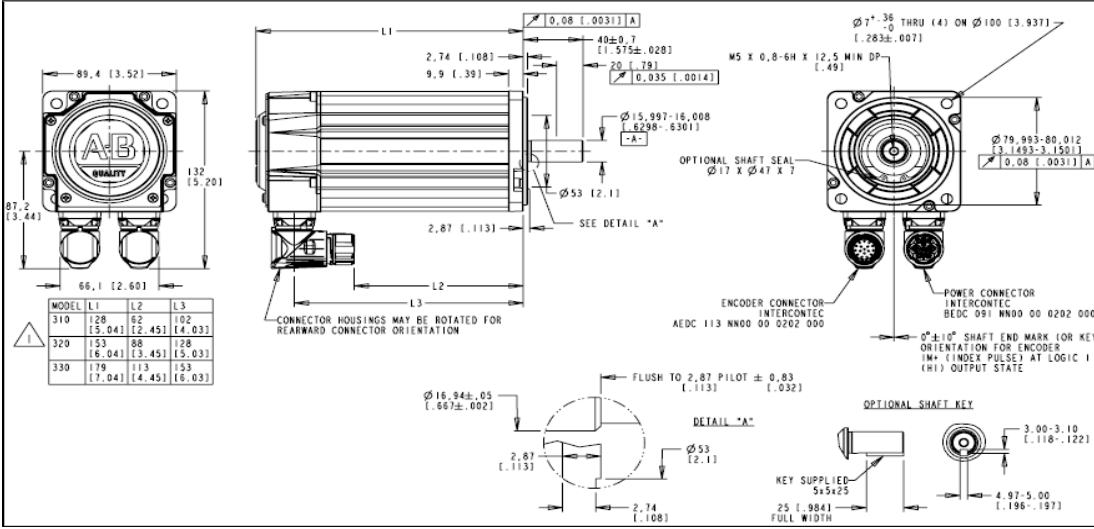
20) Rockwell MPL-B320P / 2097-V34PR5 (-LM)

		Rockwell MPL-B320P	Kollmorgen AKM42G-ACCNC-00
Winding Data			
Cont Stall Torque	Nm	3.05	3.53
Cont Current	Arms	4.5	4.8
Peak Stall Torque	Nm	7.91	11.5
Peak Current	Arms	14	19.2
Max Speed	RPM	5000	6000
Rotor Inertia	kg-cm ²	0.78	1.45
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	89.4	84
Bolt Circle Dia	mm	100	100
Pilot Diameter	mm	80	80
Shaft Dia	mm	16	19
Shaft Length	mm	40	40
Key Width	mm	5	6
Key Length	mm	25	32
Shaft End Thrd Holes	-	M5	M6
Length (Std FB, no brake)	mm	128	147.8
BC Thru Holes	mm	7	7
Weight	kg	3.7	3.39

		Rockwell 2097-V34PR5 (-LM)	Kollmorgen AKD-P00607-NBEI-0000
Power			
RMS Continuous Current	Arms	2.8	6
RMS Peak Current	Arms	5.7	18
Input Voltage	VAC	480 (3ph)	240-480 (1ph, 3ph)
Features			
Digital Inputs		8	8
Digital Outputs		4	3
Analog Inputs		1	1
Analog Outputs		1	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	185.1	185
Width	mm	94.4	70
Height	mm	182	256
Weight	kg	2.0	2.7

Speed/Torque Comparison (400 VAC)





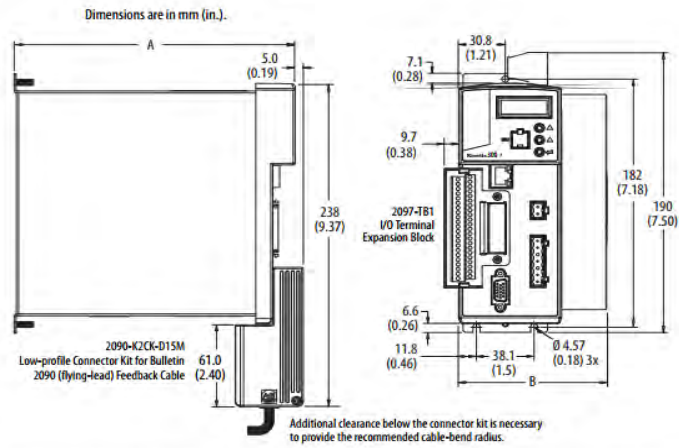
FOR FEEDBACK & CONNECTOR INFORMATION, REFER TO STANDARD INSTALLATION FEEDBACK SHEETS.
FOR ELECTRICAL INFORMATION, REFER TO STANDARD WINDING DATA SHEET.

MODEL	L MAX.	(X)
AKM41	118.8/[4.68]	(96.4/[3.80])
AKM42	147.8/[5.82]	(125.4/[4.94])
AKM43	176.8/[6.96]	(154.4/[6.08])
AKM44	205.8/[8.10]	(183.4/[7.22])

CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

TOLERANCES APPLY TO DESIGN UNITS CONVERSIONS ARE ONLY FOR REFERENCE UNLESS NOTED OTHERWISE SEE 4	SCALE 1/2 [DWG SIZE B] DO NOT SCALE PRINT	THIRD ANGLE PROJECTION	DRAWN PMH 06/12/03 CHECK SEO 07/25/03	RELEASE NO. 90099 REPLACES
DESIGN UNITS METRIC CUSTOMARY DIM TOL DIM TOL ONE PLACE X.XX mm/in 0.3/.05 TWO PLACES X.XX 0.15/.005 ANGLED 1° 1° MACHINED SURFACE FINISH (AS)	THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND IS THE PROPERTY OF KOLLMORGEN. THIS DRAWING MAY NOT BE COPIED OR USED WITHOUT PRIOR WRITTEN APPROVAL OF KOLLMORGEN.		CATALOG LISTING AKM4 ACCN STANDARD MOTOR OUTLINE	
KOLLMORGEN		TITLE BRUSHLESS SERVO MOTOR AKM SERIES 4		
		CUSTOMER STANDARD MOTOR		

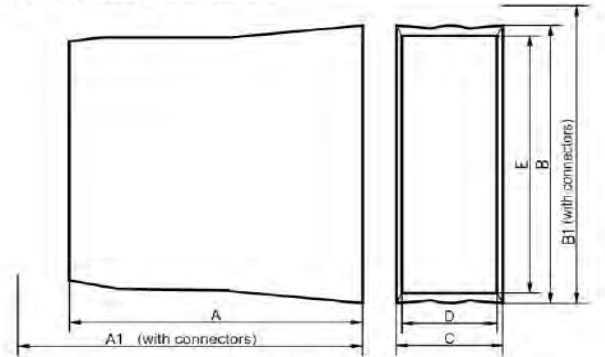
Kinetix 300 Drive Mounting Dimensions



Cat. No.	Dimensions mm (in.)	
	A	B
2097-V31PR0	185.1 (7.29)	68.0 (2.68)
2097-V31PR2	185.1 (7.29)	68.5 (2.70)
2097-V32PR0	229.6 (9.04)	68.0 (2.68)
2097-V32PR2	229.6 (9.04)	68.5 (2.70)
2097-V32PR4	229.6 (9.04)	86.8 (3.42)
2097-V33PR1	185.1 (7.29)	68.0 (2.68)

Cat. No.	Dimensions mm (in.)	
	A	B
2097-V33PR3	185.1 (7.29)	68.5 (2.70)
2097-V33PR5	185.1 (7.29)	94.4 (3.72)
2097-V33PR6	229.6 (9.04)	68.0 (2.68)
2097-V34PR3	185.1 (7.29)	68.5 (2.70)
2097-V34PR5	185.1 (7.29)	94.4 (3.72)
2097-V34PR6	229.6 (9.04)	68.0 (2.68)

Dimensions AKD-xxxx07, standard width



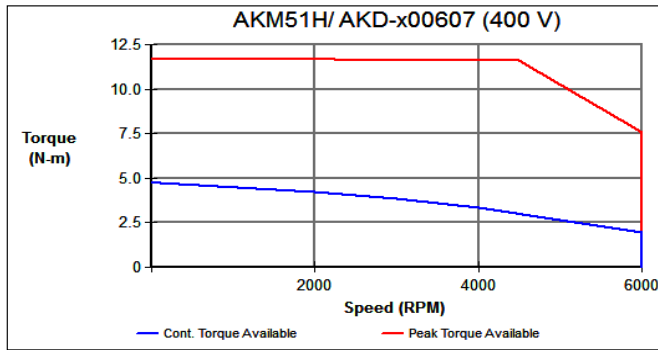
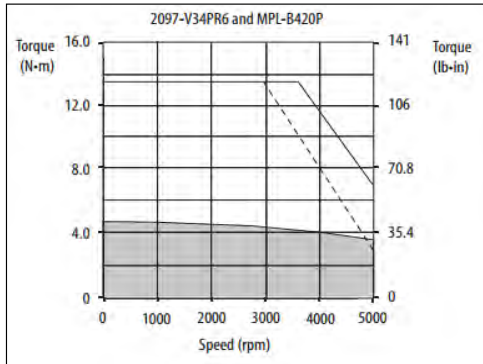
Standard Width	A	A1	B	B1	C	D	E
480V	mm	mm	mm	mm	mm	mm	mm
AKD 3A, 6A, 12A	185	221	256	290	70	65	232
AKD 24A	228	264	306	340	105	99	273

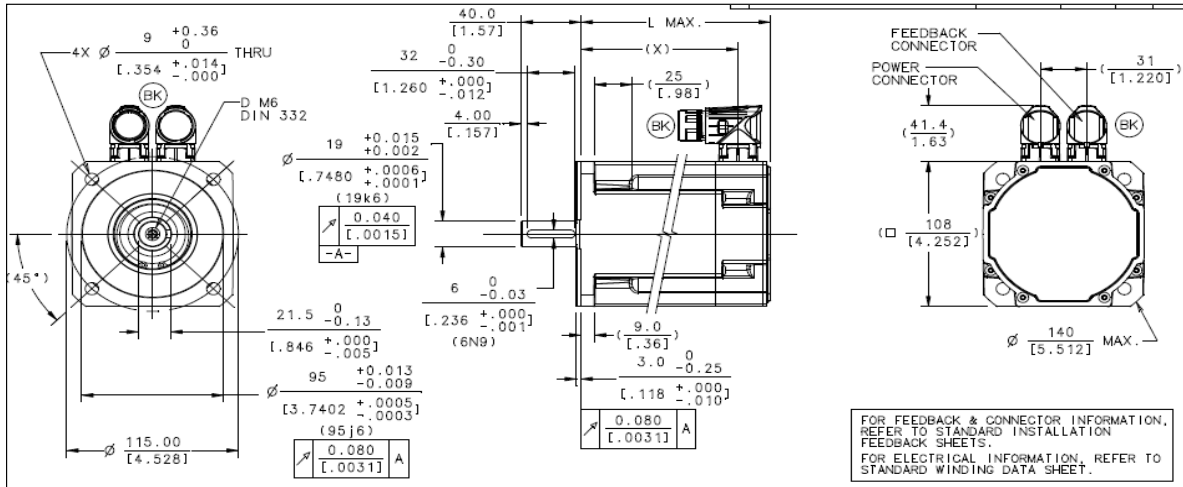
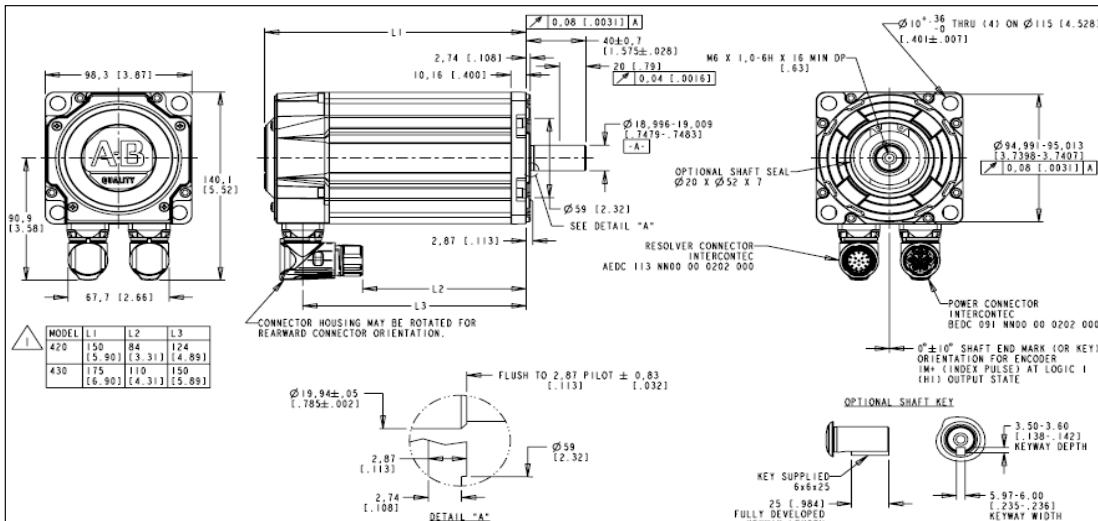
21) Rockwell MPL-B420P / 2097-V34PR6 (-LM)

		Rockwell MPL-B420P	Kollmorgen AKM51H-HCCNC-00
Winding Data			
Cont Stall Torque	Nm	4.74	4.79
Cont Current	Arms	6.4	6
Peak Stall Torque	Nm	13.5	11.7
Peak Current	Arms	22	18
Max Speed	RPM	5000	6000
Rotor Inertia	kg-cm ²	2.6	3.4
Dimensional Data			
Mount type	-	flange	flange
Motor Flange	mm	98.3	108
Bolt Circle Dia	mm	115	115
Pilot Diameter	mm	95	95
Shaft Dia	mm	19	19
Shaft Length	mm	40	40
Key Width	mm	6	6
Key Length	mm	25	21.5
Shaft End Thrd Holes	-	M6	M6
Length (Std FB, no brake)	mm	124	127.5
BC Thru Holes	mm	10	9
Weight	kg	4.3	4.2

		Rockwell 2097-V34PR6 (-LM)	Kollmorgen AKD-P00607-NBEI-0000
Power			
RMS Continuous Current	Arms	2.8	6
RMS Peak Current	Arms	5.7	18
Input Voltage	VAC	480 (3ph)	240-480 (1ph, 3ph)
Features			
Digital Inputs		8	8
Digital Outputs		4	3
Analog Inputs		1	1
Analog Outputs		1	1
STO		Yes	Yes
Dimensional Data			
Depth	mm	229.6	185
Width	mm	68	70
Height	mm	182	256
Weight	kg	1.8	2.7

Speed/Torque Comparison (400 VAC)





MODEL	L MAX.	(X)
AKM51	127.5 / [5.02]	{ 105.3 / [4.15] }
AKM52	158.5 / [6.24]	{ 136.3 / [5.37] }
AKM53	189.5 / [7.46]	{ 167.3 / [6.59] }
AKM54	220.5 / [8.68]	{ 198.3 / [7.81] }

CAUTION: METRIC DRAWING - ENGLISH DIMENSIONS ARE REFERENCE ONLY

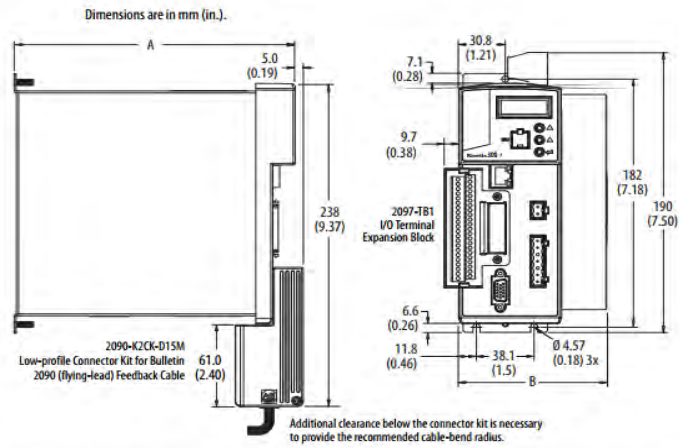
APPLY TO DIMENSIONS UNLESS OTHERWISE SPECIFIED FOR REFERENCE UNLESS NOTED OTHERWISE	SCALE 1/2 DWG SIZE	THIRD ANGLE PROJECTION	DRAWN FMH 03/29/04	RELEASE NO. 90178	REPLACES
DO NOT SCALE PRINT			CHECK TJS 03/30/04		
DEFINITION METRIC CUSTOMARY					
ONE PLACE 0.1					
TWO PLACES 0.01					
THREE PLACES 0.001					
FOUR PLACES 0.0001					
FIVE PLACES 0.00001					
SURFACE FINISH					
UNLESS OTHERWISE SPECIFIED					

KOLLMORGEN

TITLE BRUSHLESS SERVOMOTOR AKM SERIES 5
CUSTOMER STANDARD MOTOR

AKM5HCCN
STANDARD MOTOR OUTLINE

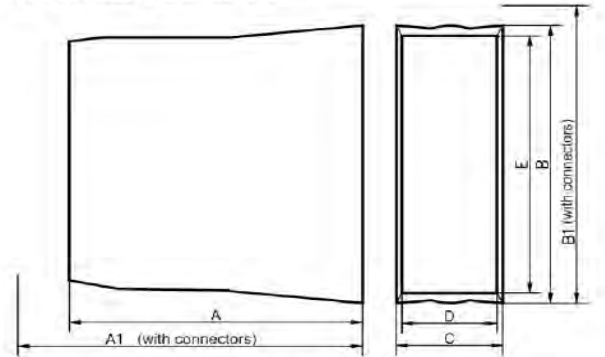
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