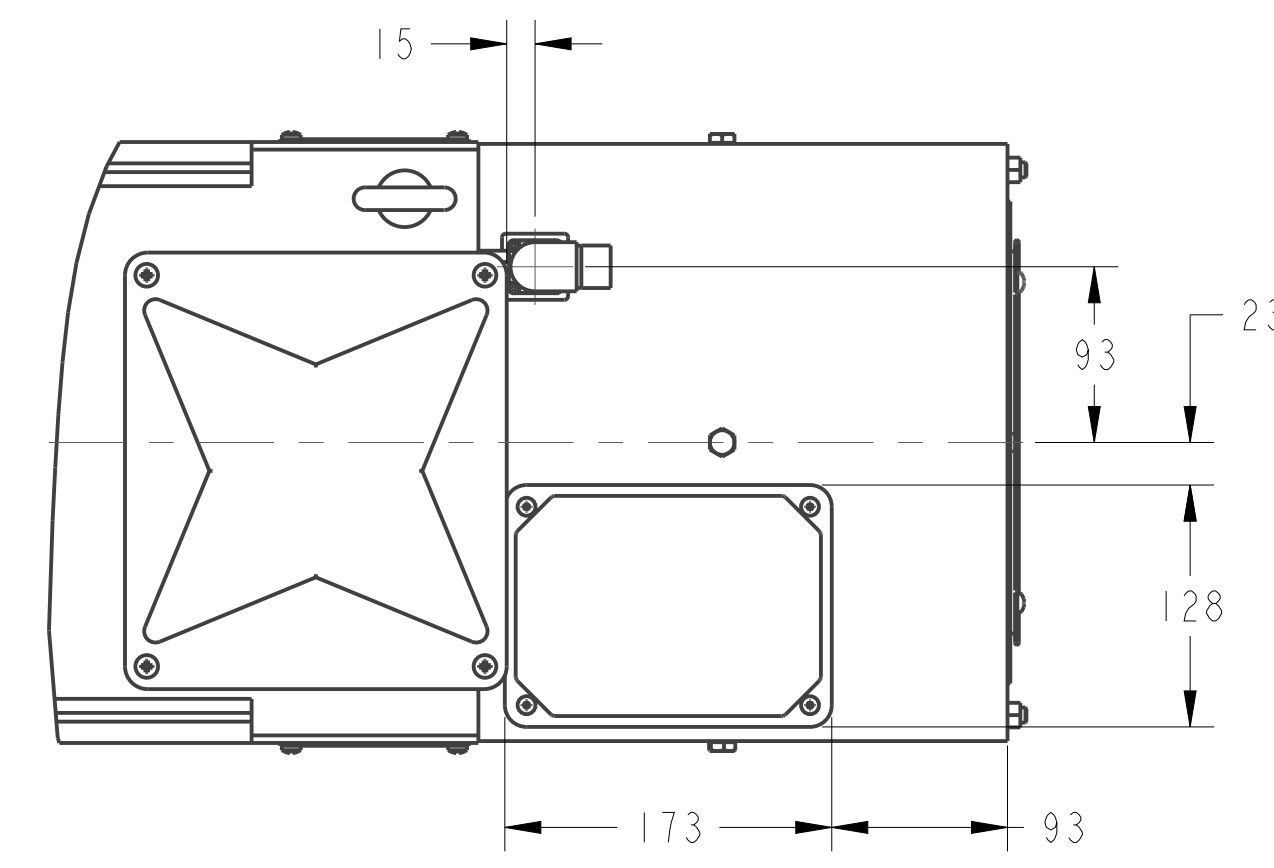
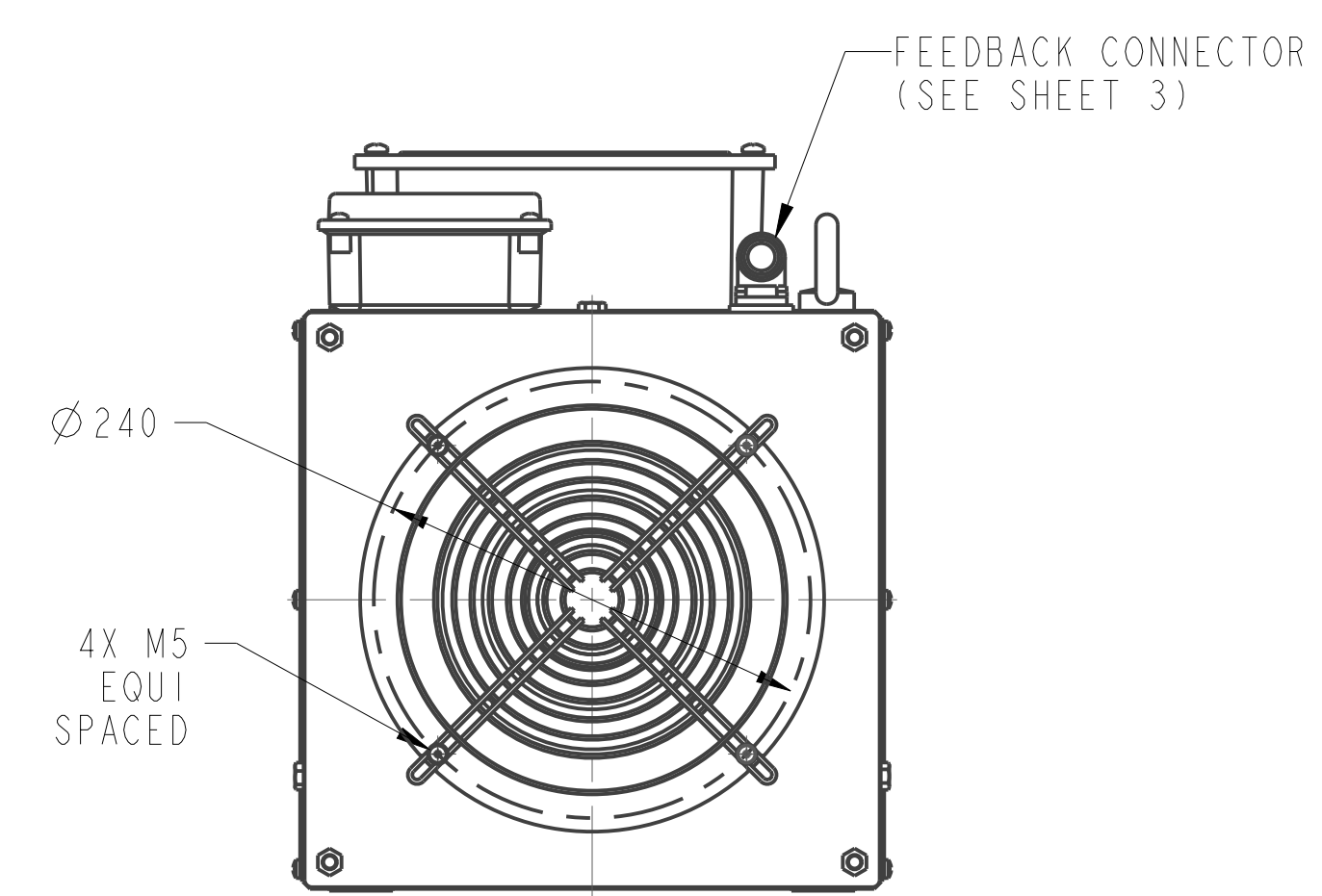
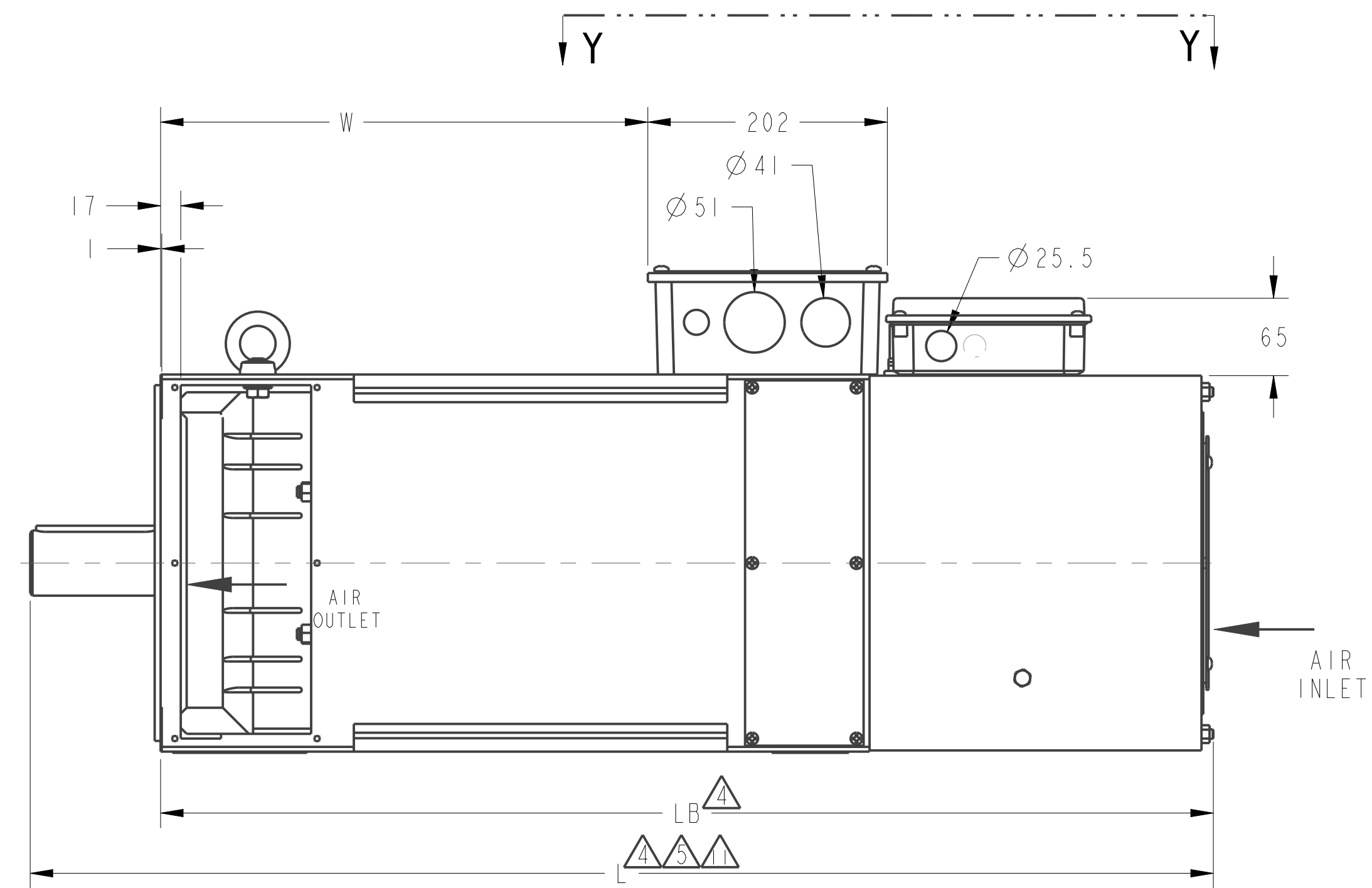
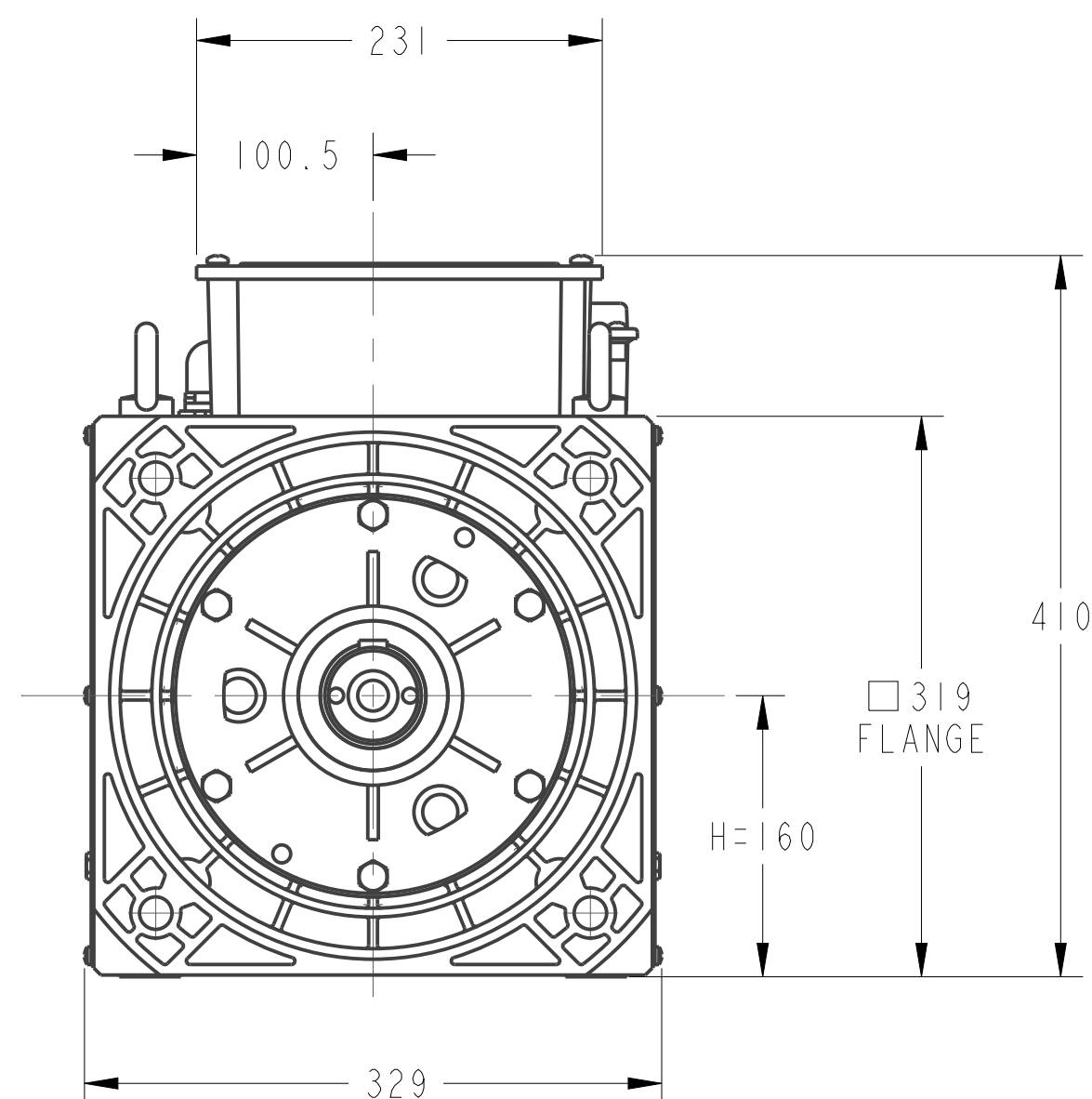
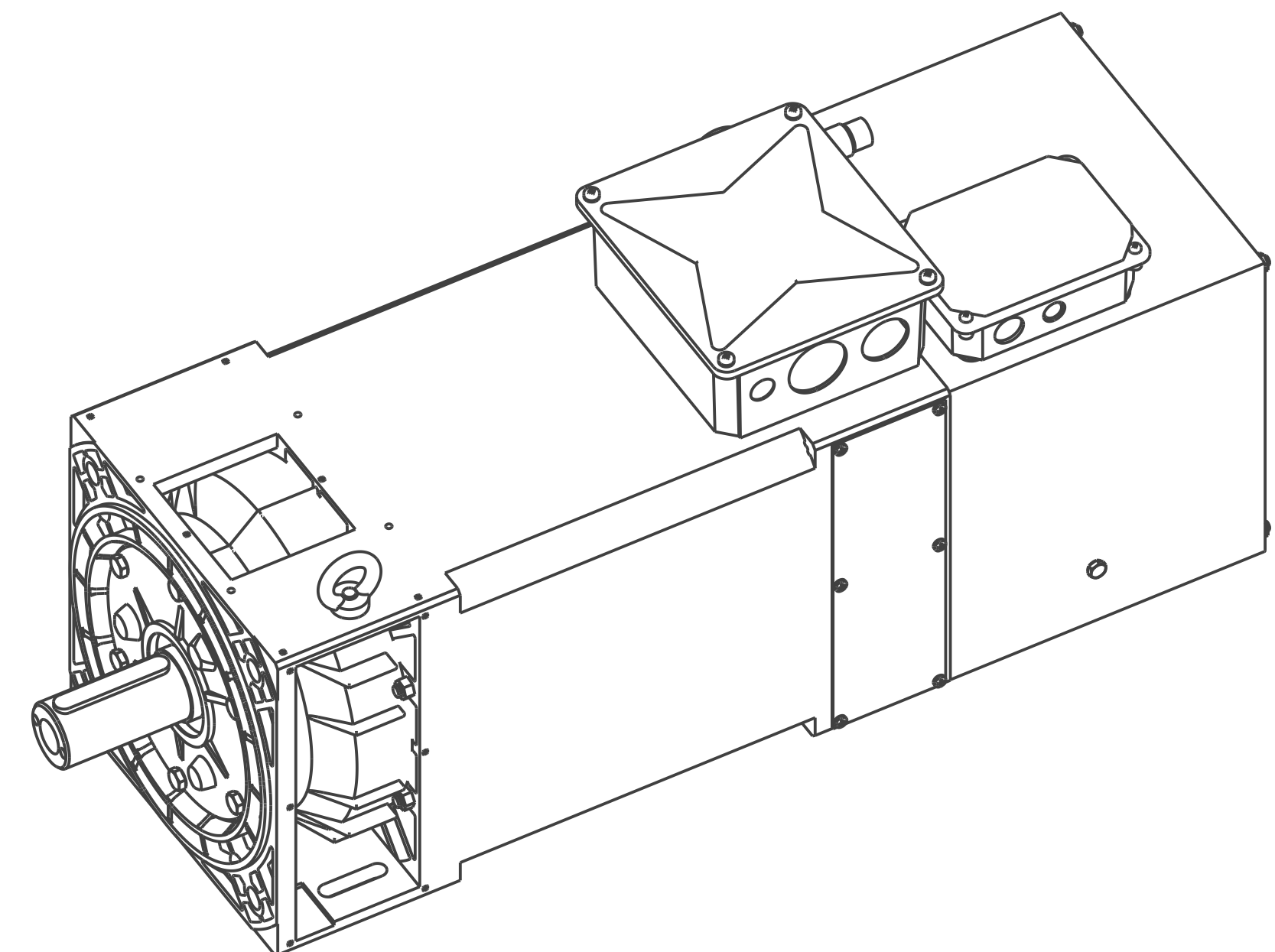
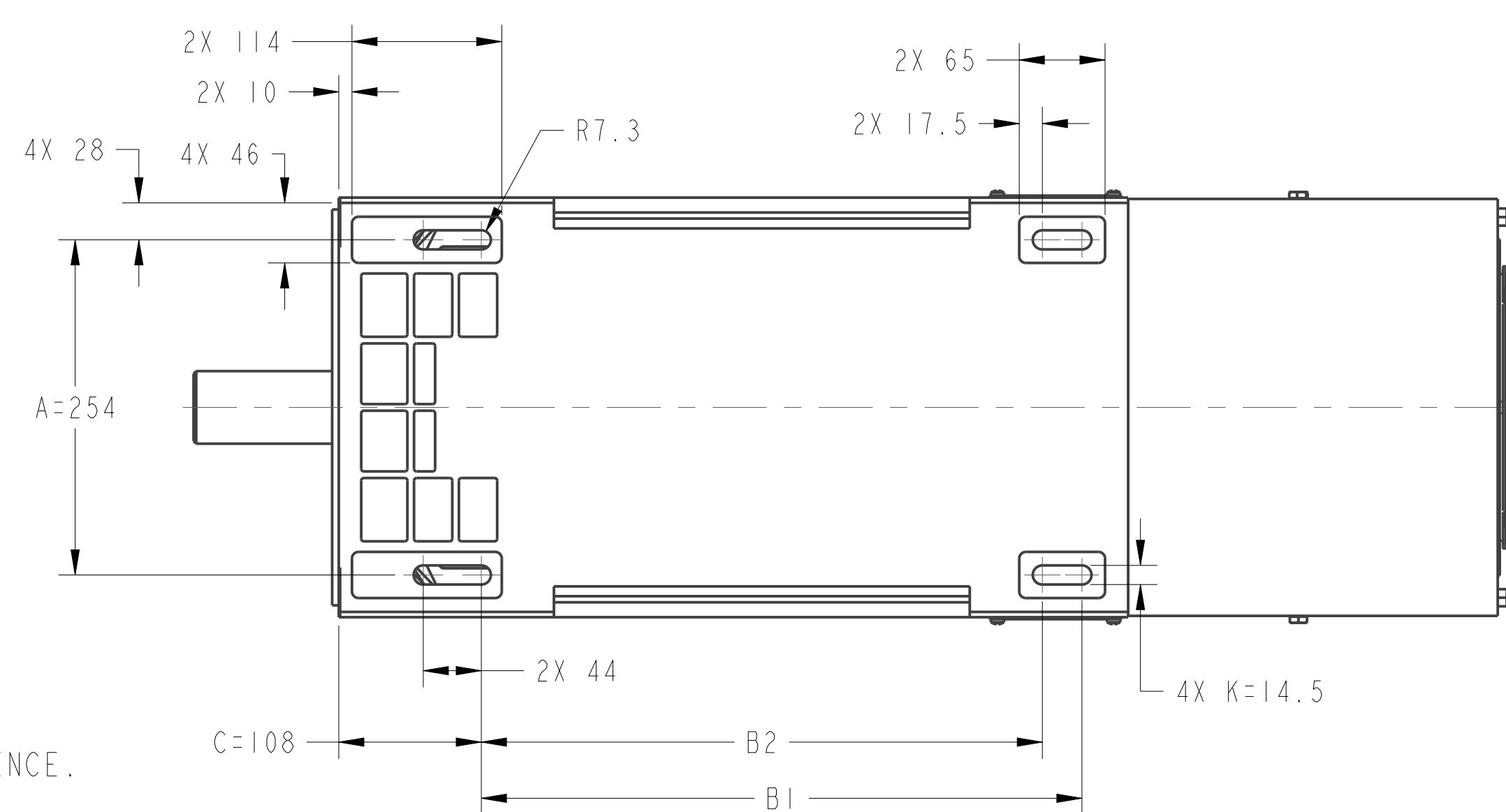




VIEW Y-Y



- NOTES:
1. ALL DIMENSIONS ARE IN MM. AND DIMENSIONS WITHOUT TOLERANCES ARE REFERENCE.
 2. FOR ADDITIONAL SPECIFICATIONS SEE ESE DRAWING DIR 10006268890.
 3. DO NOT SCALE THE DRAWING.
- ⚠ FOR ALL MOTORS EXCEPT THOSE WITH NO HOLDING BRAKE, CATALOG OPTION (MMA-BI60XXX-XXXX22XXXXXXX) ADD 155MM TO DIMENSION L & LB.
- ⚠ REFER SHEET 2 FOR ADDITIONAL DIMENSIONS TABULATION.
- ⚠ DEPENDING ON BLOWER AND TERMINAL BOX OPTION SELECTED, POSITION OF THE TERMINAL BOXES AND DIRECTION OF CABLE GLAND WILL BE CHANGED.
7. REFER SHEET 3 FOR TERMINAL BOX CONNECTIONS AND CONNECTOR PIN DETAILS.
- ⚠ REFER SHEET 4 FOR RADIAL BLOWER CATALOG OPTION (MMA-BI60XXX-XXXXXXCXXXXXX) CONFIGURATION AND DIMENSIONAL CHANGES.

CATALOG (TRUNCATED)	B2	B1	L	LR	LB	LBR	W
MMA-BI60AXX	340	370	915	845	805	735	326
MMA-BI60BXX	375	405	950	880	840	770	361
MMA-BI60CXX	425	455	1000	930	890	820	411
MMA-BI60DXX	470	500	1045	975	935	865	456

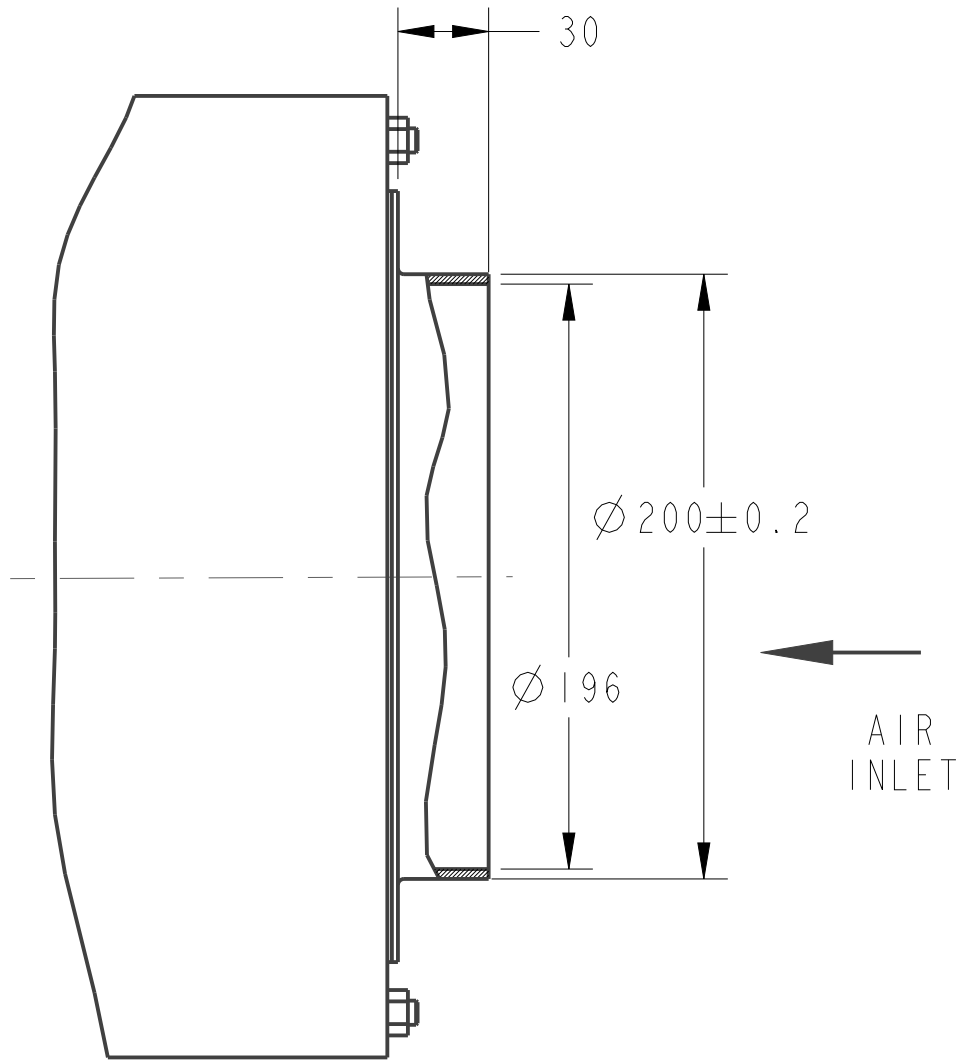
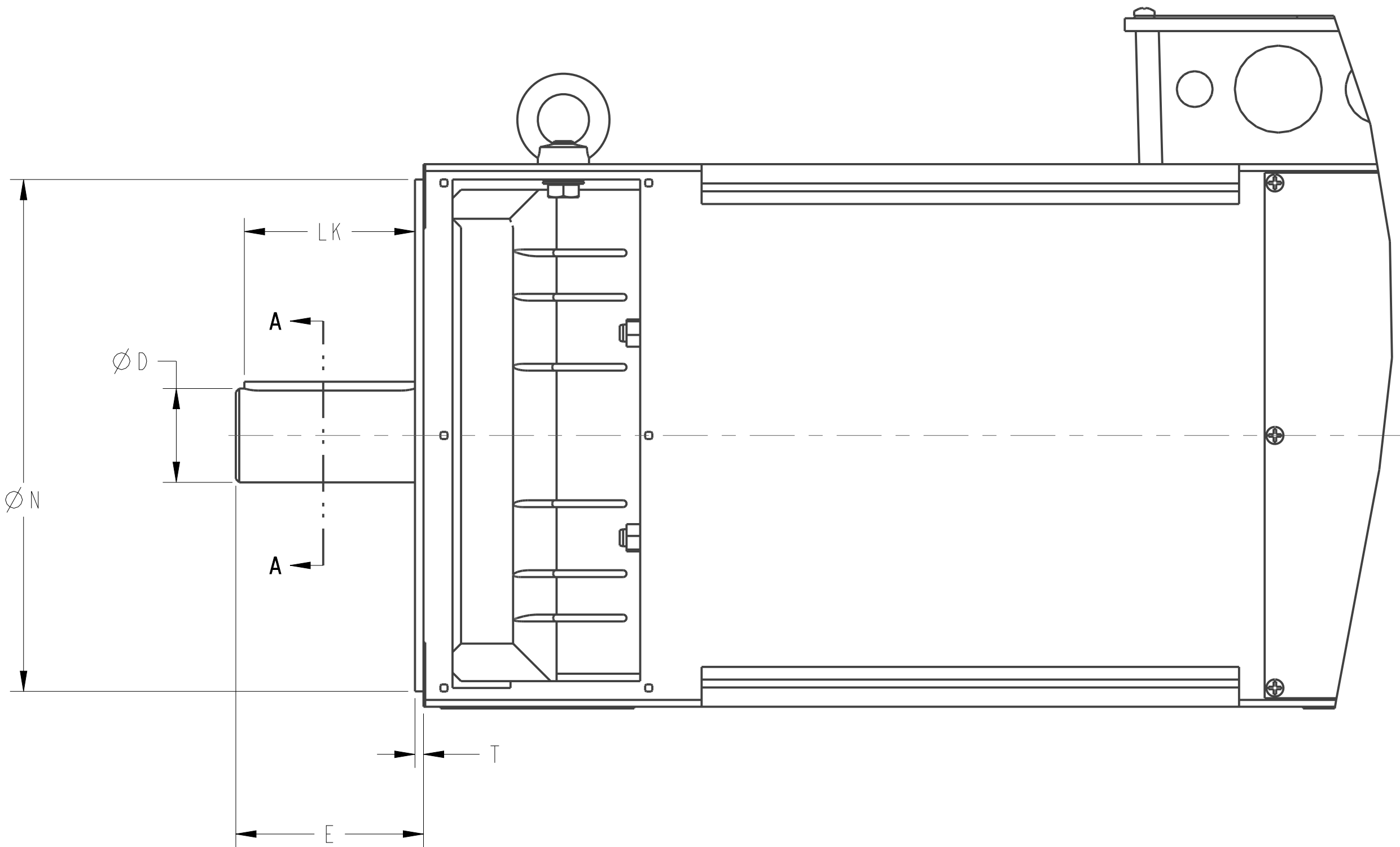
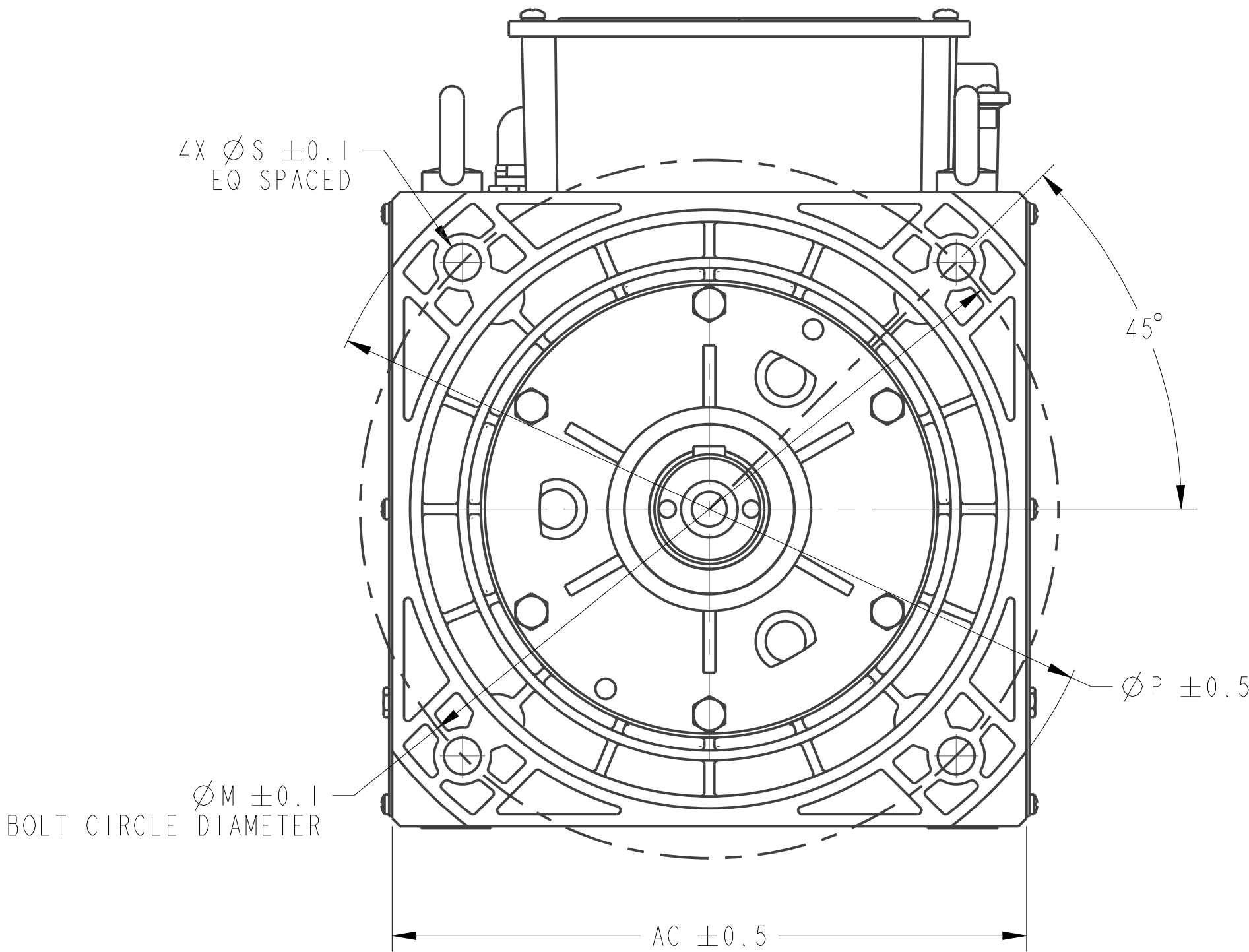
ALL UNDIMENSIONED GEOMETRIES ARE CONTROLLED BY THE CAD MODEL. IN CASE OF DIMENSION DISCREPANCY, CAD MODEL OVERRIDES.	THIRD ANGLE PROJECTION	DESCRIPTION	DATE: 2021-08-03	SHEET 1 OF 4
DRW, MMA-BI60X, KINETIX MOTOR, ESM	CREATED BY: MGANDHI	CHANGED BY: *****	SIZE: D	VER: 00

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Rockwell Automation	

MUST COMPLY WITH ROCKWELL AUTOMATION ENVIRONMENTAL SPECIFICATION 970-20-01

MOTOR FLANGE DIMENSIONS

MOTOR CATALOG (TRUNCATED)	FLANGE OPTIONS SELECTION CODES	BOLT CIRCLE DIAMETER M	MTG HOLE DIAMETER S	PILOT DIAMETER N	PILOT THICKNESS T	FLANGE WIDTH SQUARE AC	MAX FLANGE OUTER DIAMTER P
MMA-B160AXX-XXXXXXX	A,B,C,D	350	18.5	300±0.016	5	318	400
MMA-B160BXX-XXXXXXX							
MMA-B160CXX-XXXXXXX							
MMA-B160DXX-XXXXXXX	H,J,K	300	18.5	250 ^{+0.016} _{-0.013}	5	318	400

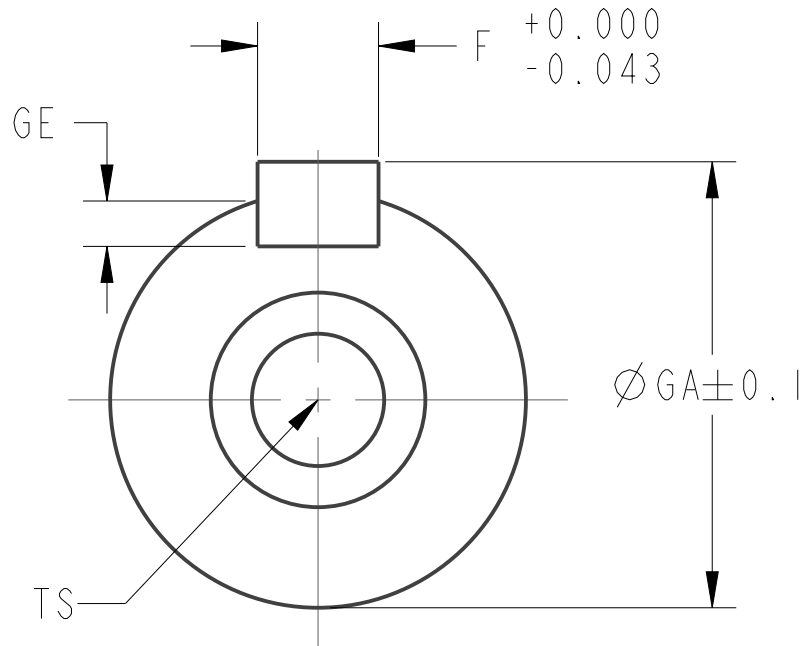


SHAFT AND KEY DIMENSIONS

MOTOR CATALOG (TRUNCATED)	SHAFT OPTIONS SELECTION CODES	KEY WIDTH F	SHAFT WIDTH OVER KEY GA	DEPTH OF KEYWAY GE	KEY LENGTH LK	DIAMETER D	SHAFT LENGTH E	THREAD SIZE TS
MMA-X160AXX-XX	A,B,C,D	16	59	6	100	55 ^{+0.030} _{+0.011}	110	M20
MMA-X160BXX-XX		NA	NA	NA	NA			
MMA-X160CXX-XX	E,F	NA	NA	NA	NA	60 ^{+0.030} _{+0.011}	140	M20
MMA-X160DXX-XX		NA	NA	NA	NA			
MMA-X160AXX-XX	G,H,J,K	18	64	7	130	48 ^{+0.018} _{+0.002}	110	M20
MMA-X160BXX-XX		NA	NA	NA	NA			
MMA-X160CXX-XX	L,M	NA	NA	NA	NA			
MMA-X160DXX-XX		NA	NA	NA	NA			
MMA-X160AXX-XX	N,P,Q,R	14	51.5	5.5	100			
MMA-X160BXX-XX		NA	NA	NA	NA			

NOTES:

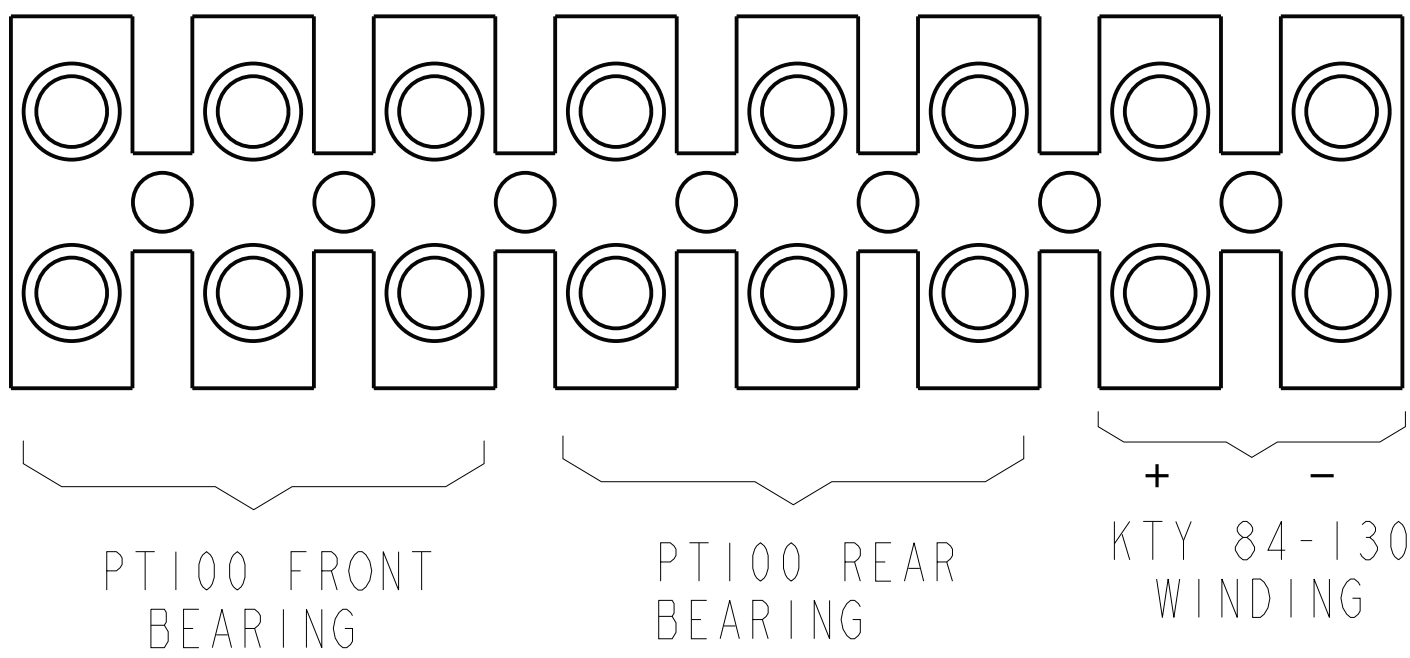
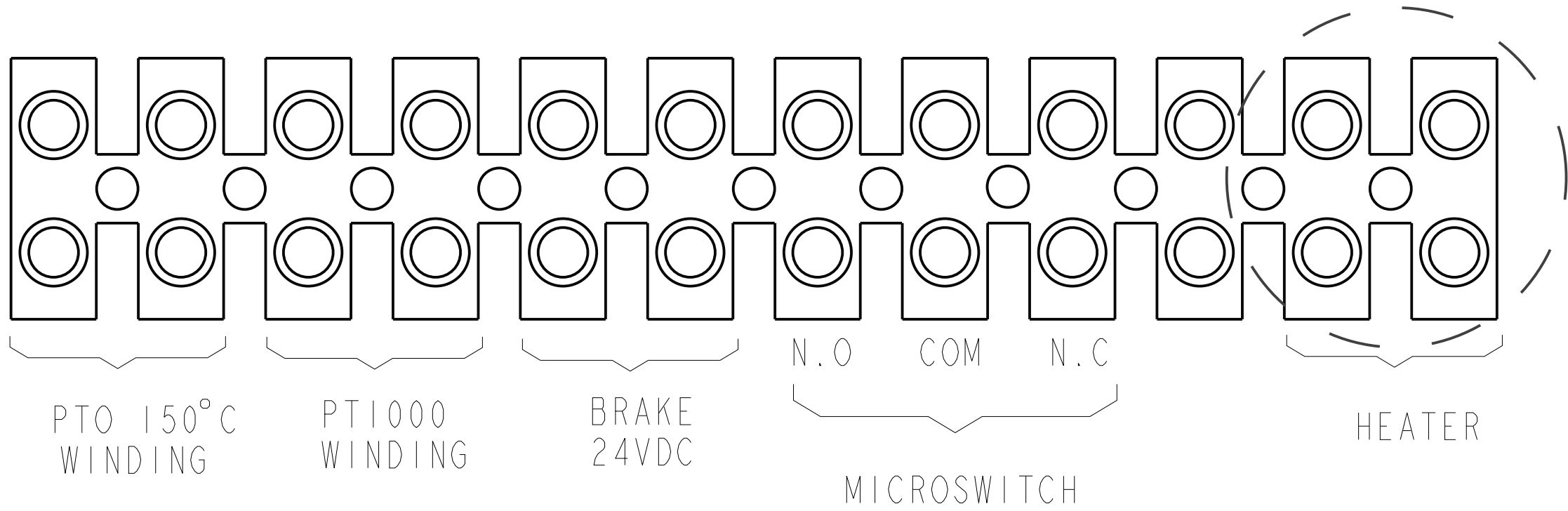
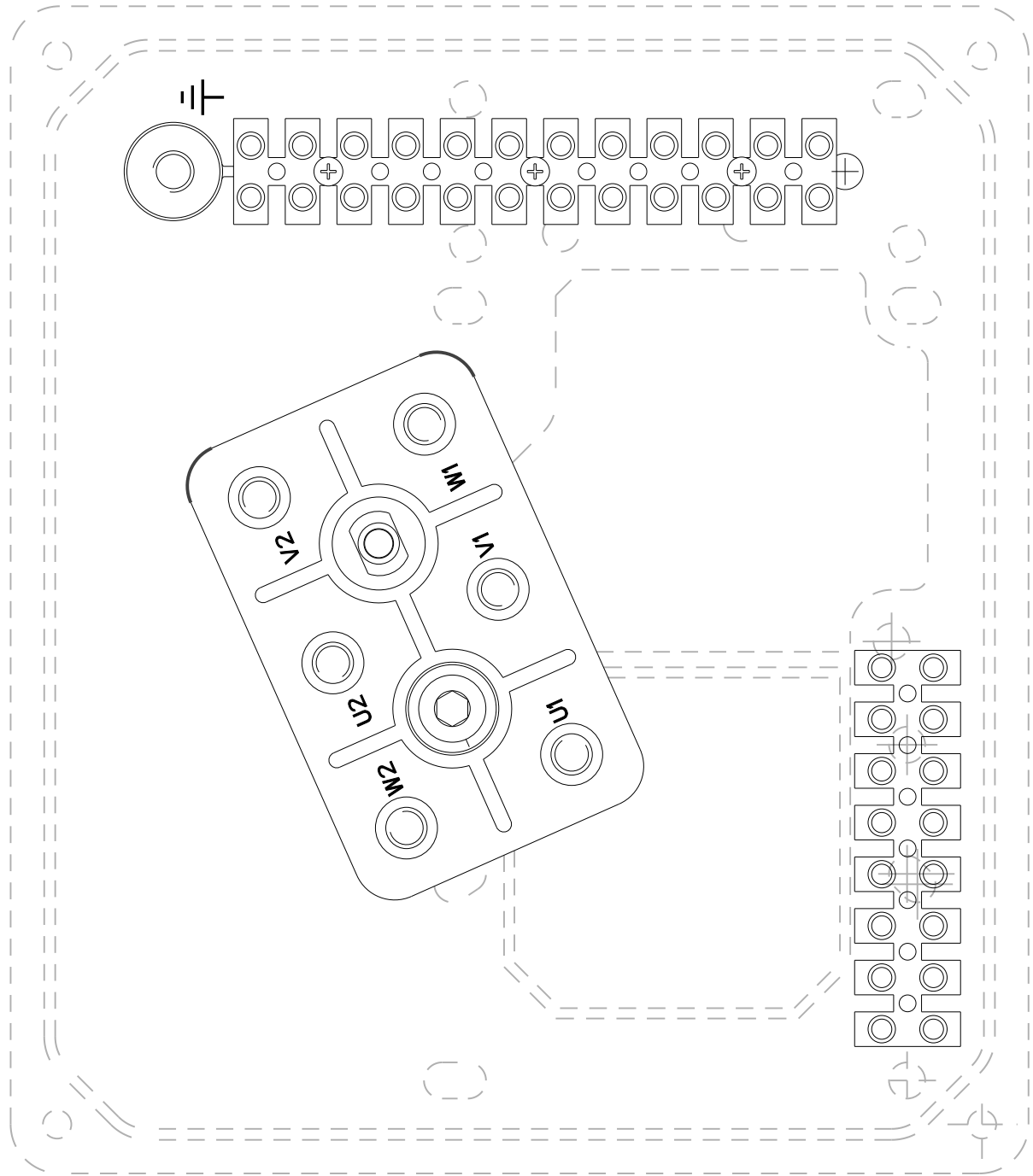
⚠ WHEN INCREASED SHAFT OPTION SELECTED (SHAFT CODES: G,H,J,K,L,M) LENGTH "L" AND "LR: IS INCREASED BY 30 MM.



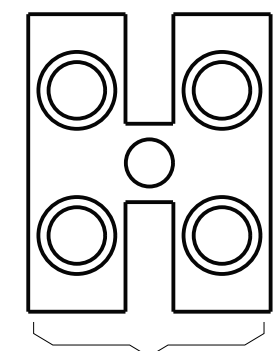
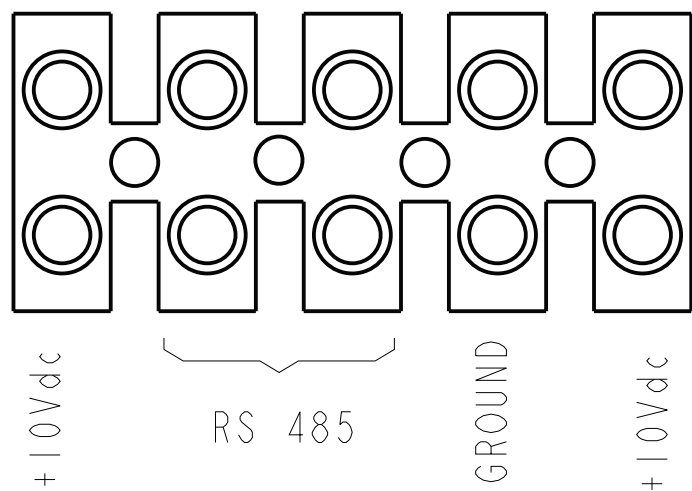
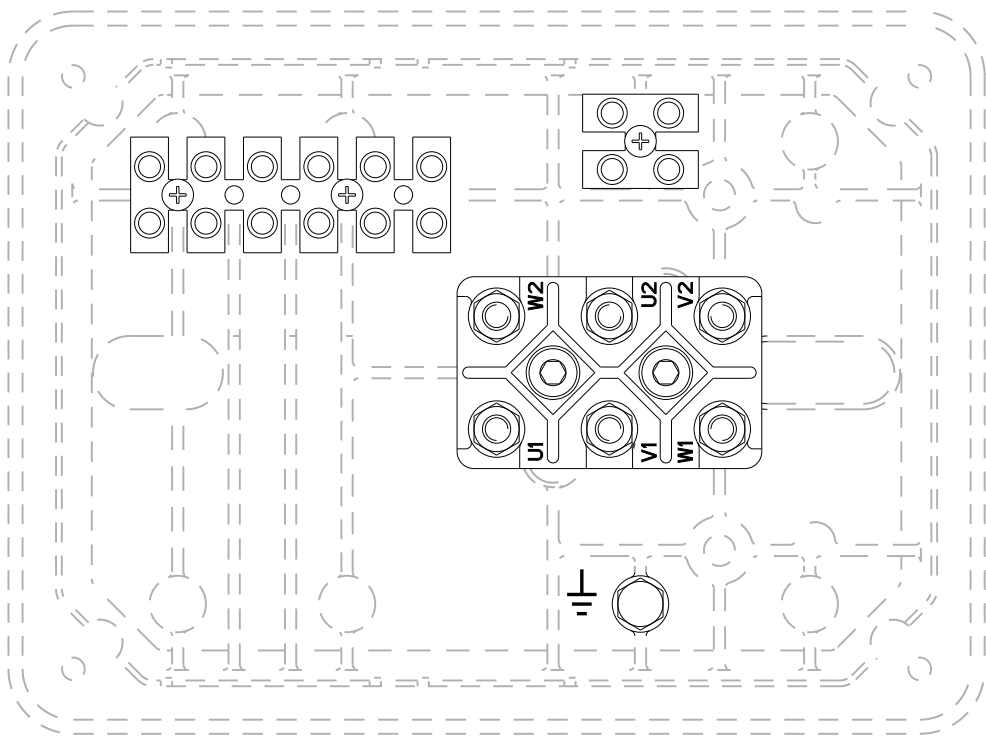
SECTION A-A

DIMENSIONS
FOR IC17 COOLING OPTION
MMA-B160XXX-XXXXXXDXXXXXX

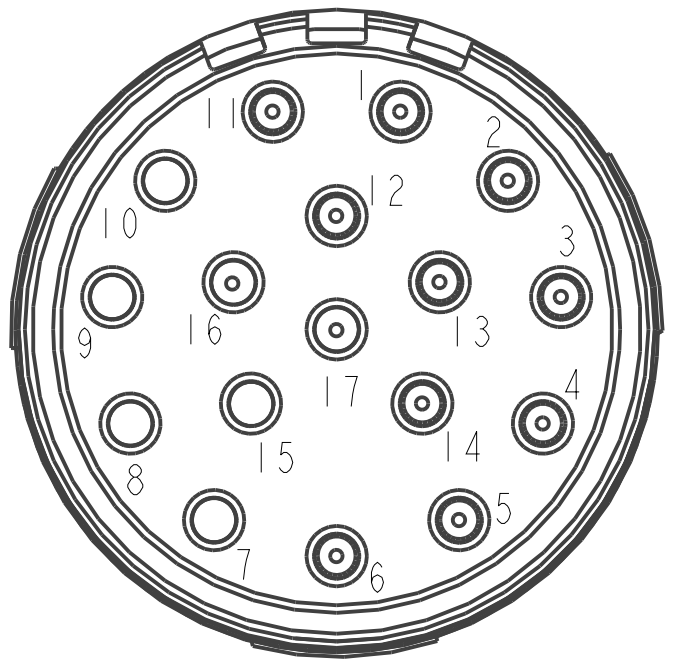
MOTOR TERMINAL BOX



BLOWER TERMINAL BOX
FOR AXIAL BLOWER OPTIONS
MMA-B160XXX-XXXXXXAXXXXXX
MMA-B160XXX-XXXXXXBXXXXXX

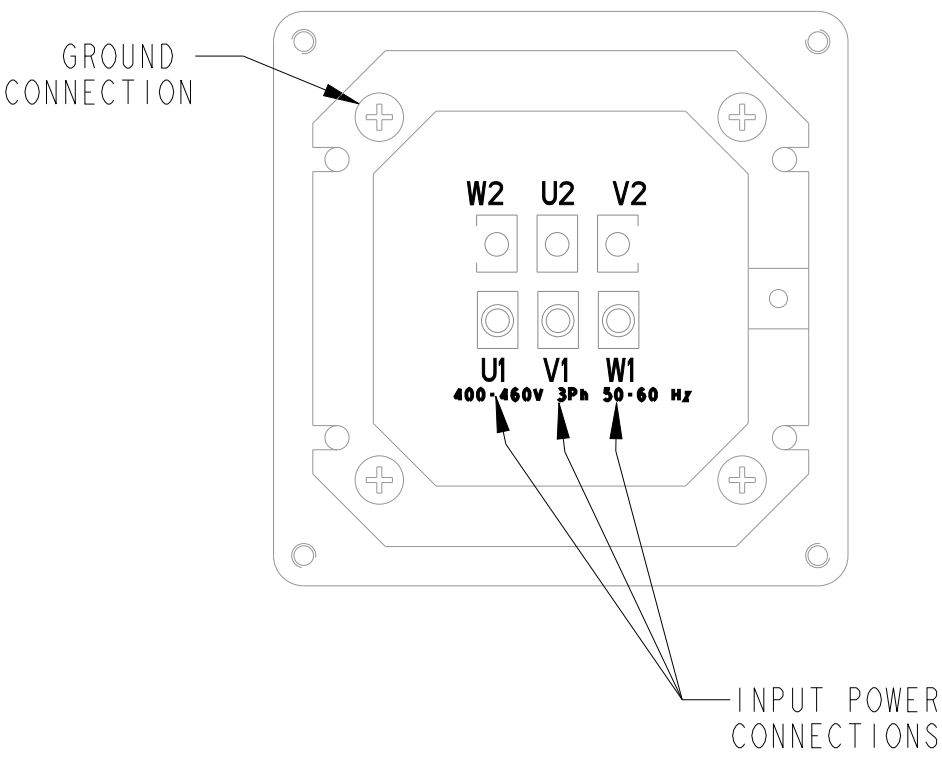


FEEDBACK CONNECTOR

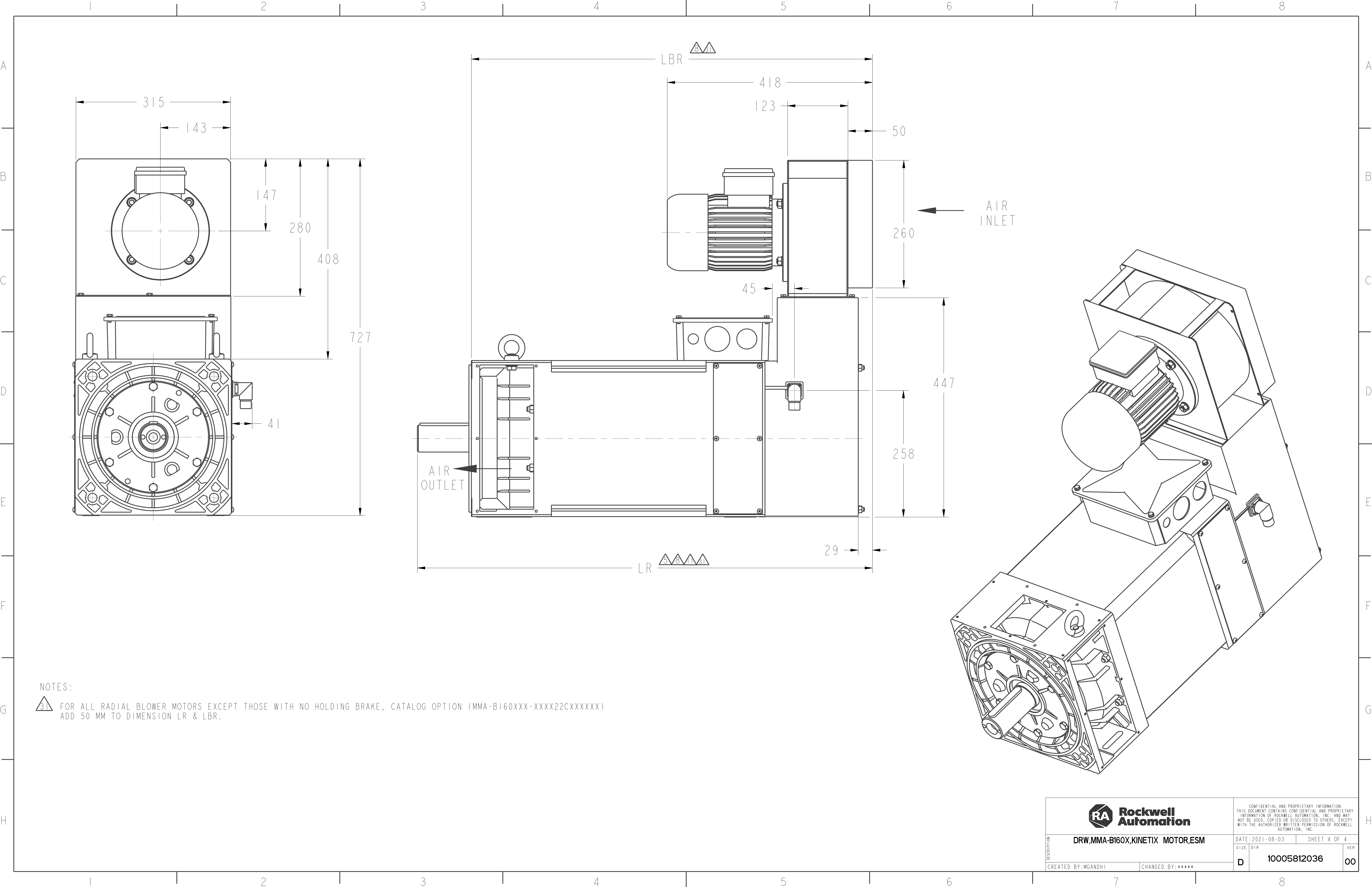


FEEDBACK CONNECTOR	RA CATALOG - ENCODER DESIGNATION			
	L2	S1,S2, M1,M2	S3, M3	S4, M4,
CONTACT NUMBER	VFx60	SF x60 MOTOR, SFx60 SAFETY	ECN413, EQN425	ECN425, EQN437
1	A+	SIN+	SIN+	-
2	A-	SIN-	SIN-	-
3	B+	COS+	COS+	-
4	B-	COS-	COS-	-
5	IM+	DATA+	DATA+	DATA+
6	IM-	DATA-	DATA-	DATA-
7	-	-	CLK+	CLK+
8	-	-	CLK-	CLK-
9	-	-	-	-
10	-	-	-	-
11	EPWR 9V	EPWR 9V	EPWR 9V	EPWR 9V
12	ECOM	ECOM	ECOM	ECOM
13	TS+	TS+	TS+	TS+
14	TS-	TS-	TS-	TS-
15	-	-	-	-
16	PT1	PT1	PT1	PT1
17	PT2	PT2	PT2	PT2

BLOWER TERMINAL BOX
FOR 3 PHASE BLOWER OPTION
MMA-B160XXX-XXXXXXCXXXXXX



NOTES:
21 DEPENDING ON THE MOTOR CONFIGURATIONS,THE TERMINALS POSITION MAY BE CHANGED OR ELIMINATED



NOTES:

31 FOR ALL RADIAL BLOWER MOTORS EXCEPT THOSE WITH NO HOLDING BRAKE, CATALOG OPTION (MMA-B160XXX-XXXX22CXXXXXX)
ADD 50 MM TO DIMENSION LR & LBR.

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DRW,MMA-B160X,KINETIX MOTOR,ESM		DATE: 2021-08-03	SHEET 4 OF 4
DESCRIPTION		SIZE	VER
D		10005812036	00
CREATED BY: MGANDHI		CHANGED BY: *****	