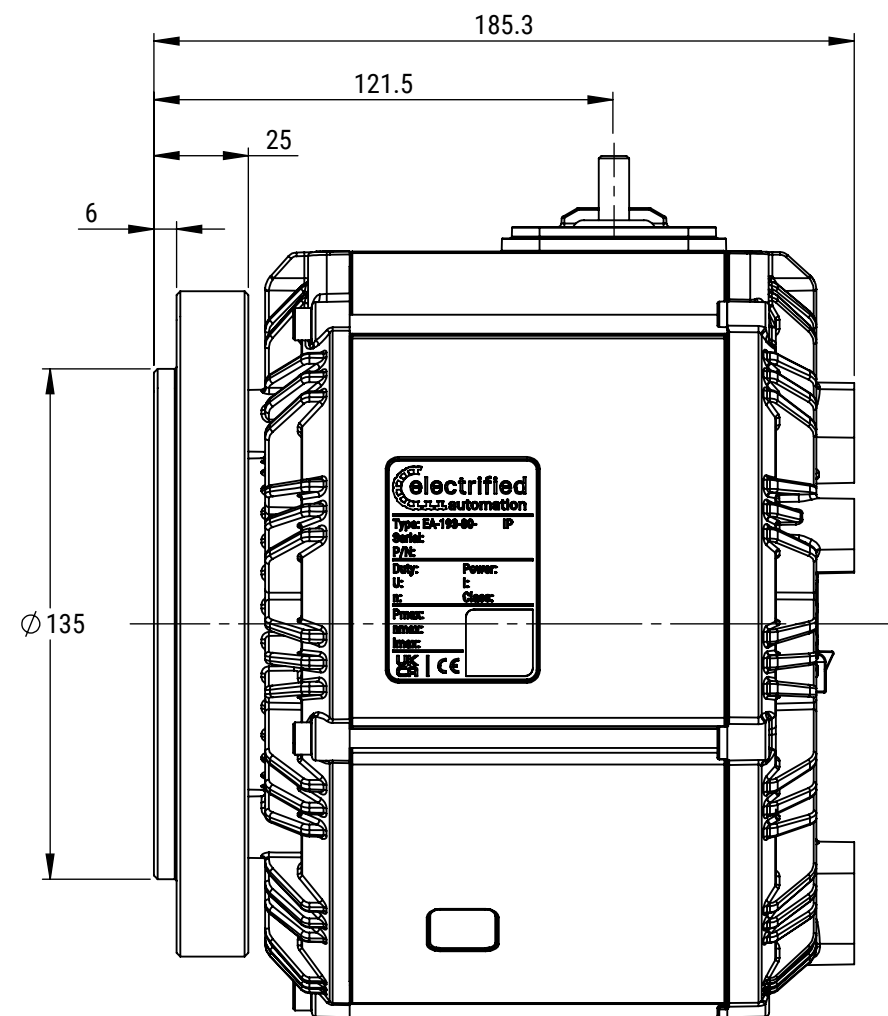
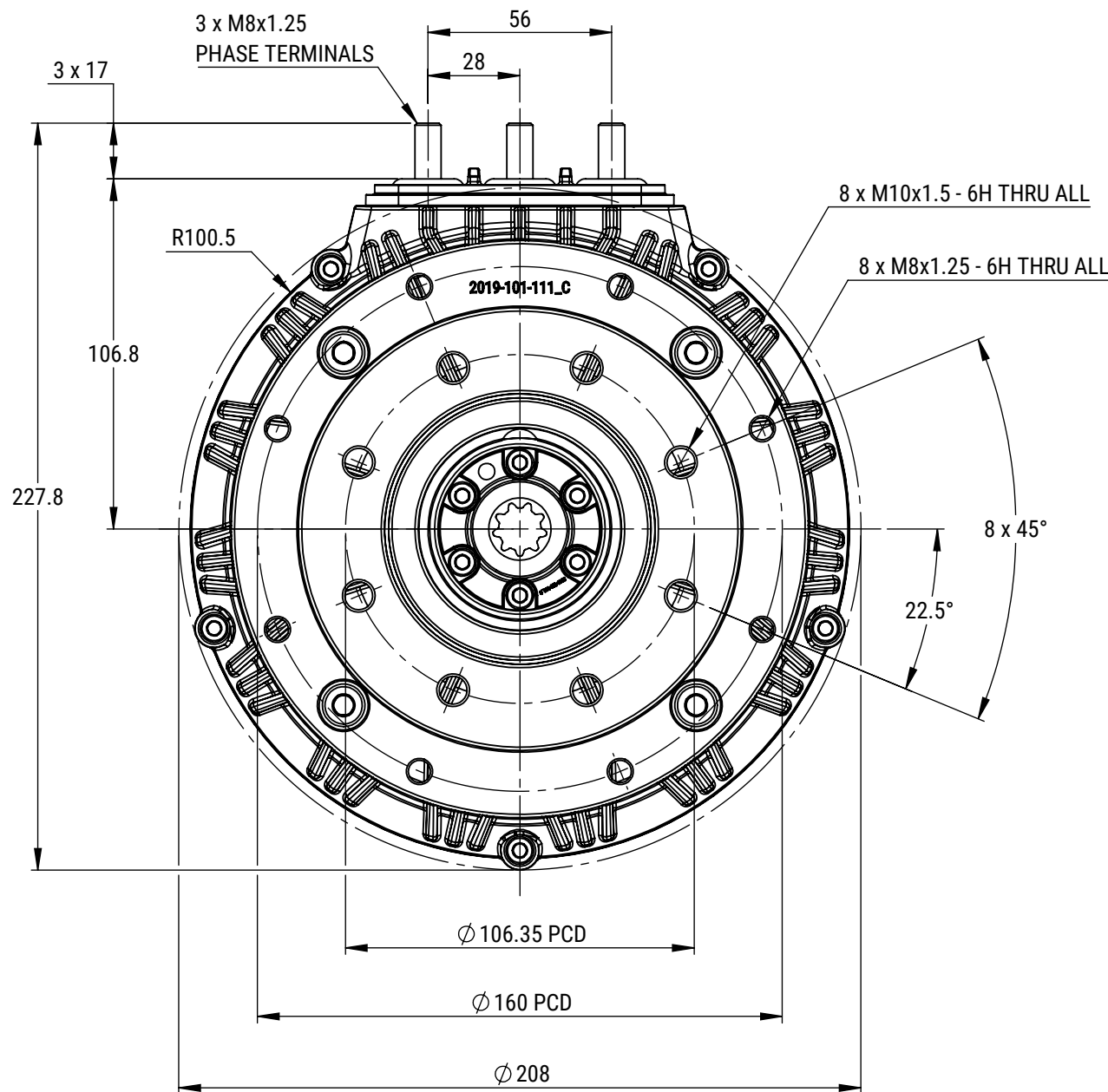
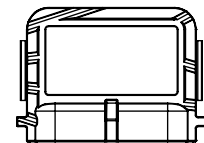




MOTOR TYPE	EA-193-80-10A	
VOLTAGE	VDC	48
IEC DUTY	S2	60
RATED POWER	KW	10
RATED SPEED	RPM	4000
MAX. FREQ.	HZ	667
IP RATING*	IP	65
INSUL. CLASS	-	200
SENSOR CYCLES	CPR	5
TEMP SENSOR	PT1000	CLASS B

ENCODER:

SUPERSEAL 1.5 SOCKET



PIN 1: 5V
PIN 2: TEMP
PIN 3: SIN
PIN 4: COS
PIN 5: GND
PIN 6: SHIELD

MATING PLUG P/N:
282090-1

MATING PIN P/N:
183035-1

CUSTOMER APPROVAL:

NAME:

DATE:

SIGNED:

NOTES:

- SHAFT ROTATES CW, WHEN VIEWED FROM DRIVE END, WHEN COSINE SIGNAL LEADS SINE SIGNAL BY 90 DEGREES
- SHAFT ROTATES CW, WHEN VIEWED FROM DRIVE END, WHEN U-V-W WIRED PER DIAGRAM
- TERMINAL NUTS: TORQUE TO 15Nm
- SEE MANUAL FOR RECOMMENDED TORQUE VALUES OF MOTOR FASTENERS
- ESTIMATED ROTATIONAL MOMENT OF INERTIA: 11031 kg/mm²
- * IP RATINGS - SEE USER MANUAL FOR FURTHER DETIALS

Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
A	1st Rel	First Release	BK	-	SD	25/01/2024

TITLE:
**193-080-10A, SAE A, Z9,
48V, IP65**

DWG NO.
2019-002-061

Rev
A

Scale
1:2

Mass
~19.45kg



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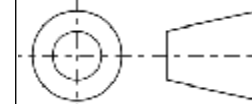
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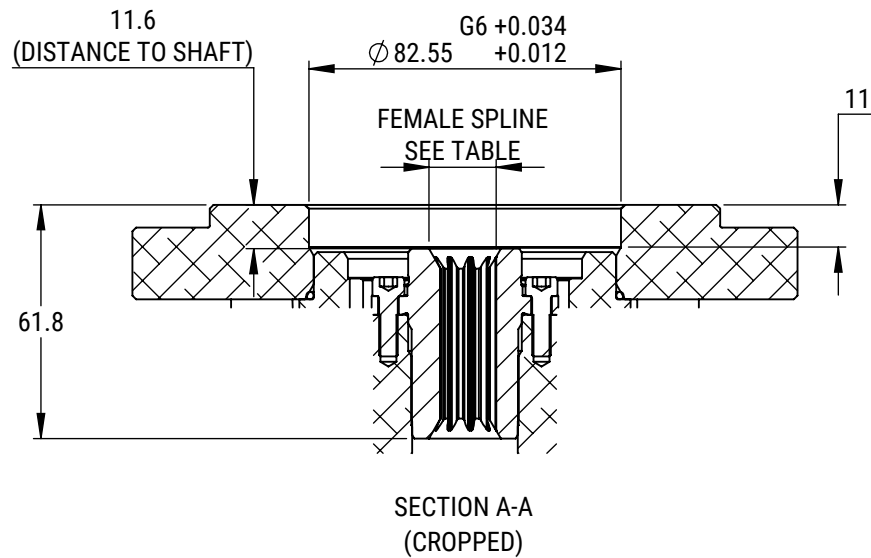
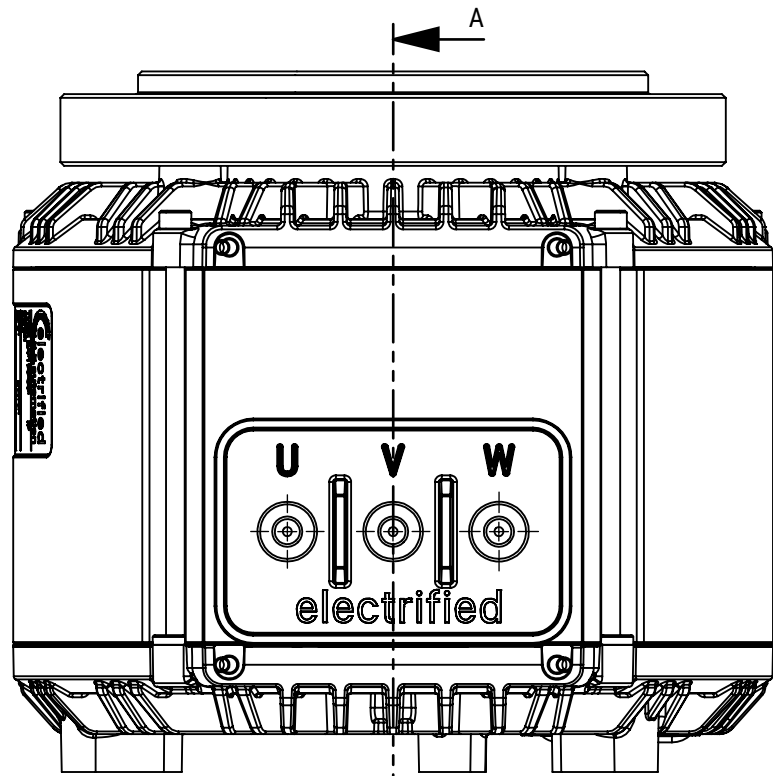
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Document Status
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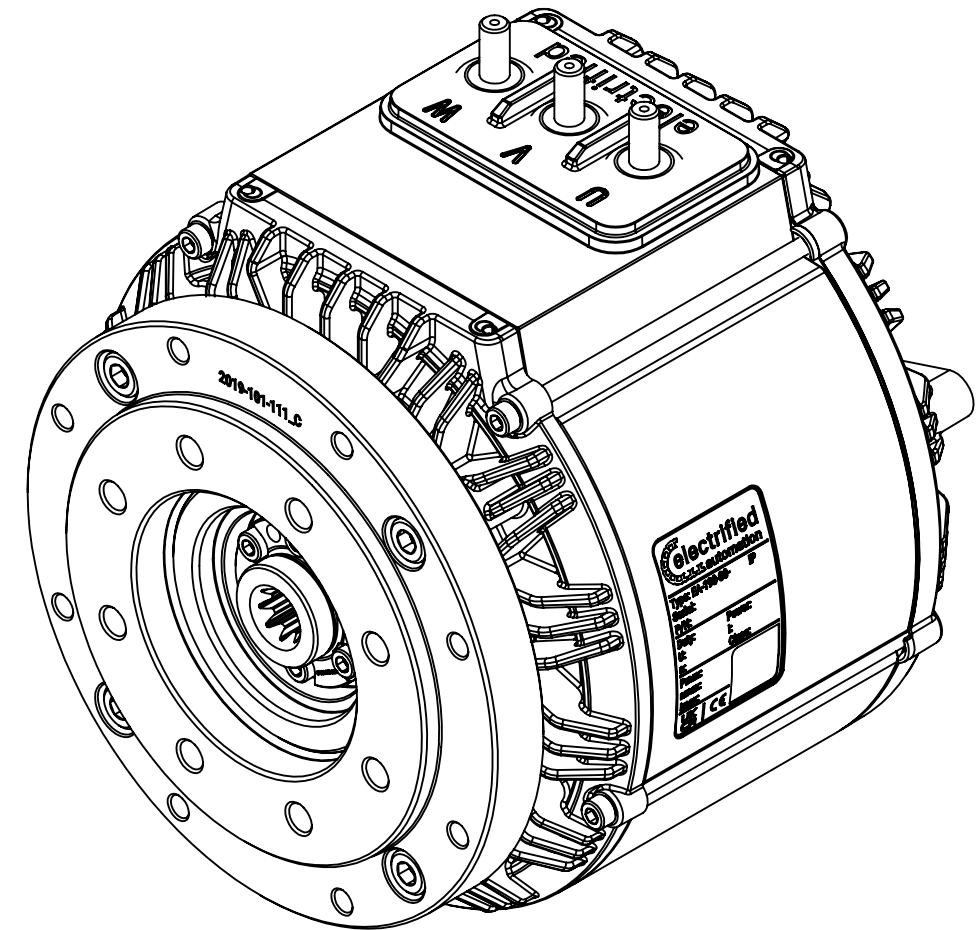
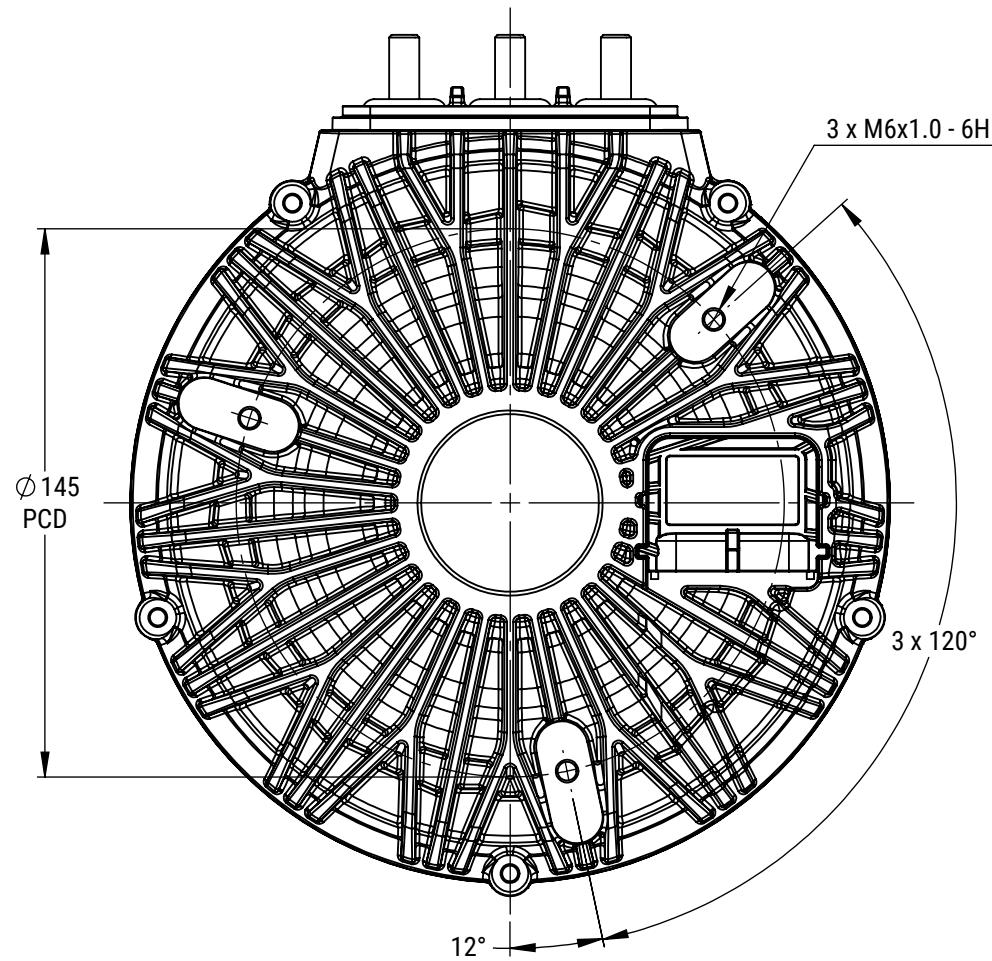
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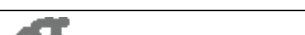
INTERNAL INVOLUTE SPLINE DATA				
SPEC	ANSI B92.1 1996			
SPLINE TYPE	FLAT ROOT - SIDE FIT			
CLASS				5
NUMBER OF TEETH				9
SPLINE PITCH				16/32
PRESSURE ANGLE	°		30	
BASE DIAMETER	mm	12.373	REF	
PITCH DIMETER	mm	14.288	REF	
MAJOR DIAMETER	mm	16.535	MAX	
FORM DIAMETER	mm	15.977		
MINOR DIAMETER	mm	13.056		
		12.929		
MAX MEASUREMENT BETWEEN PINS	mm	10.089		
PIN DIAMETER	mm	3.048		

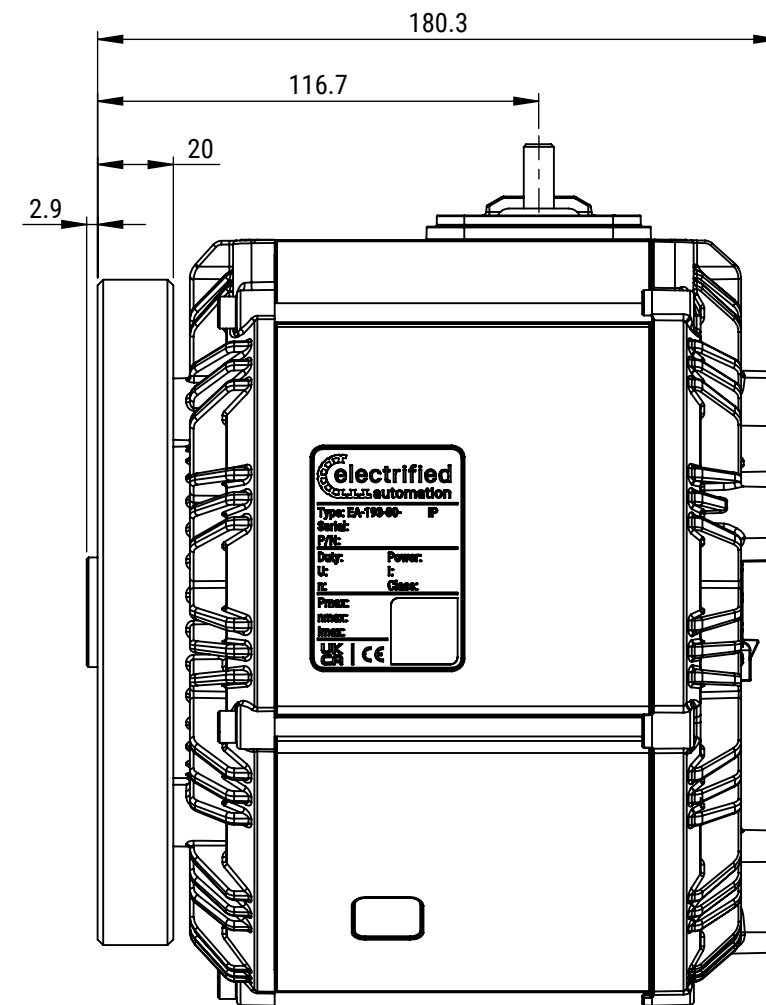
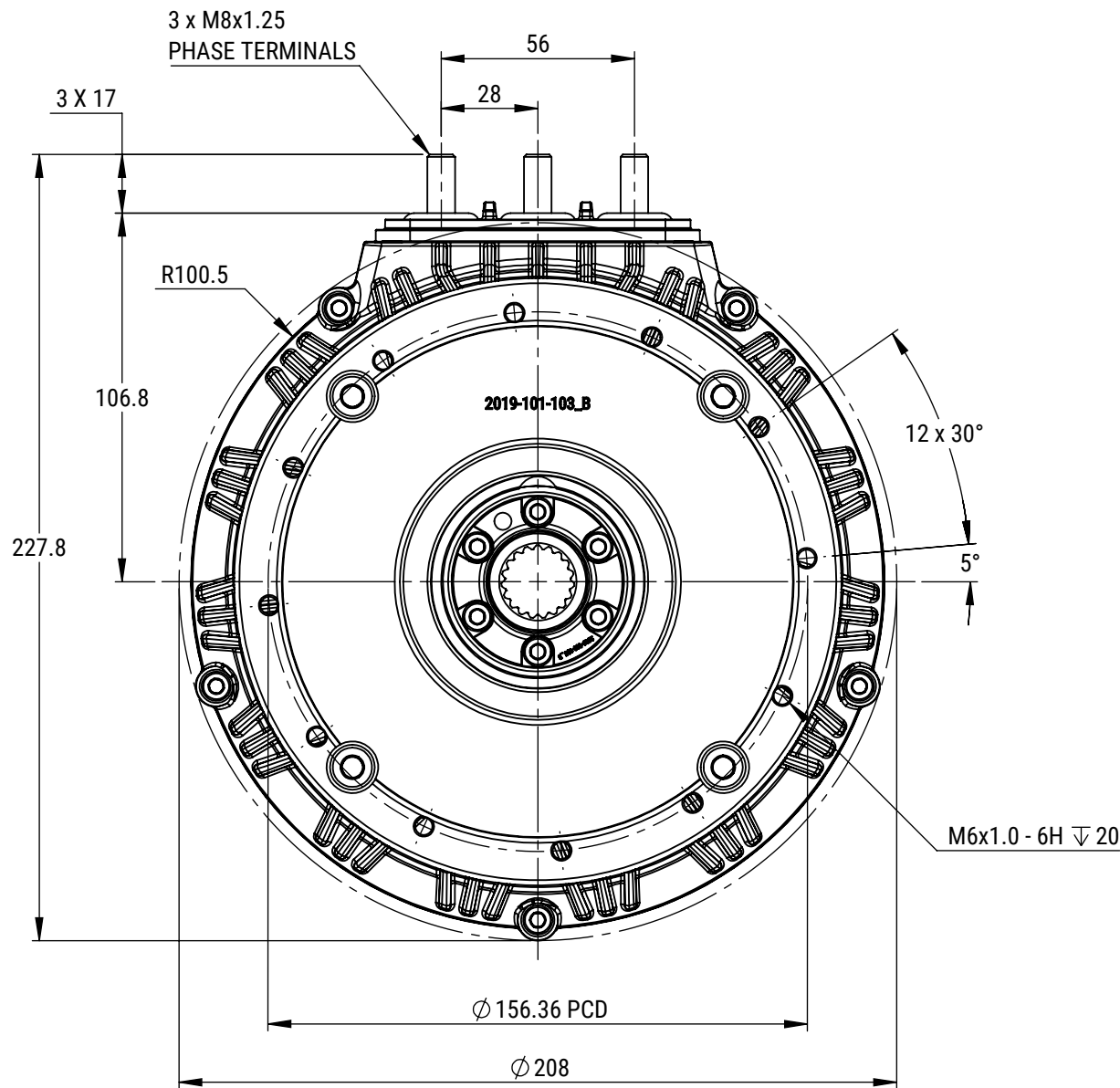


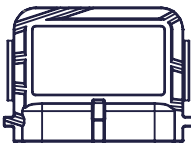
ISOMETRIC VIEW

Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
A	1st Rel	First Release	BK	-	SD	25/01/2024

TITLE:		193-080-10A, SAE A, Z9,	
		48V, IP65	
DWG NO.	Rev	Scale	Mass
2019-002-061	A	1:2	~19.45kg

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Mass	IF IN DOUBT - ASK ALL DIMENSION IN MM CONFORMS TO BS8888		Document type	Document Status	Sheet	A3	
~19.45kg			ASSEMBLY DRAWING	PROTOTYPE APPROVED	2 OF 2		



MOTOR TYPE		EA-193-80-10A+		ENCODER:	SUPERSEAL 1.5 SOCKET	CUSTOMER APPROVAL:
VOLTAGE	VDC	48	 PIN 1 : 5V PIN 2 : TEMP PIN 3 : SIN PIN 4 : COS PIN 5 : GND PIN 6 : SHIELD	MATING PLUG P/N:	282090-1	NAME:
IEC DUTY	S2	60		MATING PIN P/N:	183035-1	DATE:
RATED POWER	KW	10				SIGNED:
RATED SPEED	RPM	4000				
RATED. FREQ.	HZ	333				
IP RATING*	IP	65				
INSUL. CLASS	-	200				
SENSOR CYCLES	CPR	5				
TEMP SENSOR	PT1000	CLASS B				

NOTES:

- SHAFT ROTATES CW, WHEN VIEWED FROM DRIVE END, WHEN COSINE SIGNAL LEADS SINE SIGNAL BY 90 DEGREES
- SHAFT ROTATES CW, WHEN VIEWED FROM DRIVE END, WHEN U-V-W WIRED PER DIAGRAM
- TERMINAL NUTS: TORQUE TO 15Nm
- SEE MANUAL FOR RECOMMENDED TORQUE VALUES OF MOTOR FASTENERS
- ESTIMATED ROTATIONAL MOMENT OF INERTIA: 11031 kg/mm²
- * IP RATINGS - SEE USER MANUAL FOR FURTHER DETIALS

Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
A	1st Rel	First Release	SD	-	OS	01/02/2024

TITLE:		193-080-10A+, E-AXLE 1,	
		48V, IP65	
DWG NO.	Rev	Scale	Mass
2019-002-064	A	1:2	~19.16kg



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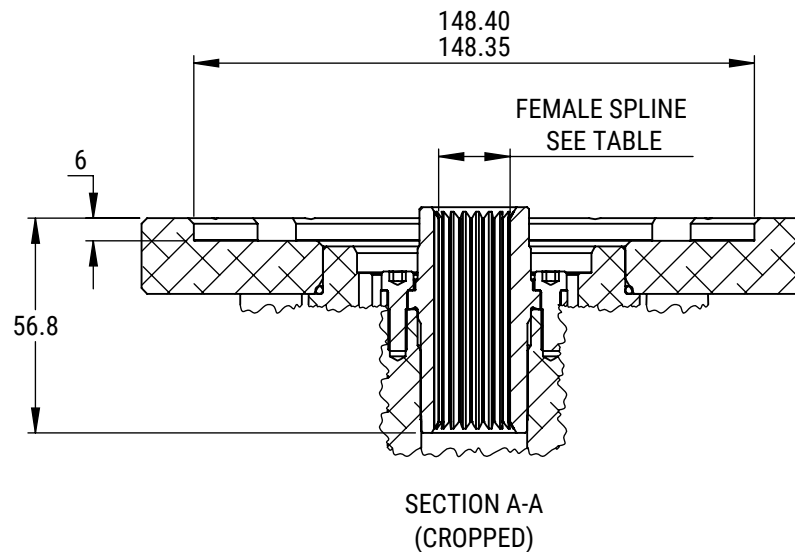
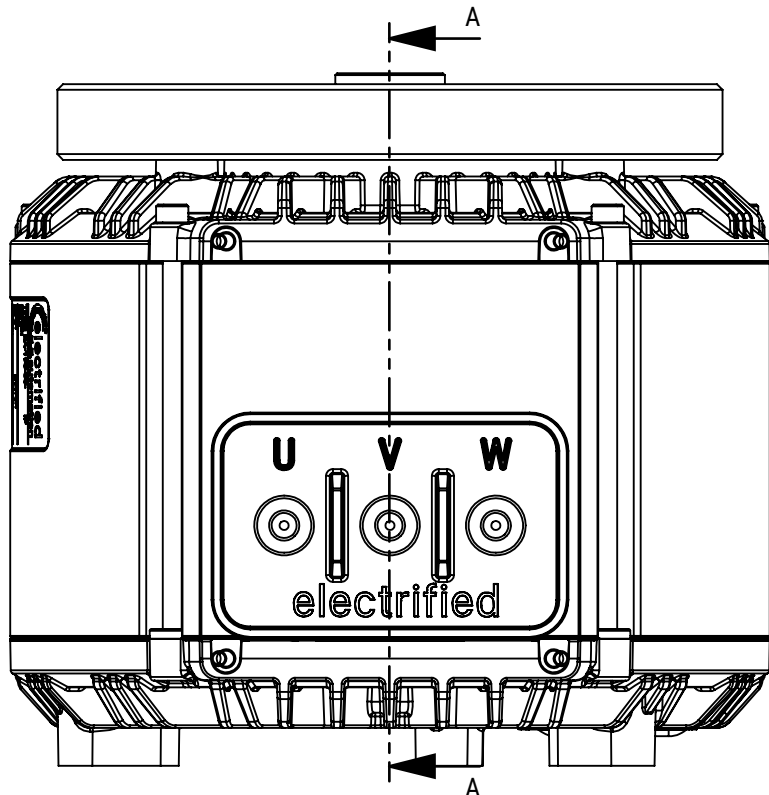
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Document type
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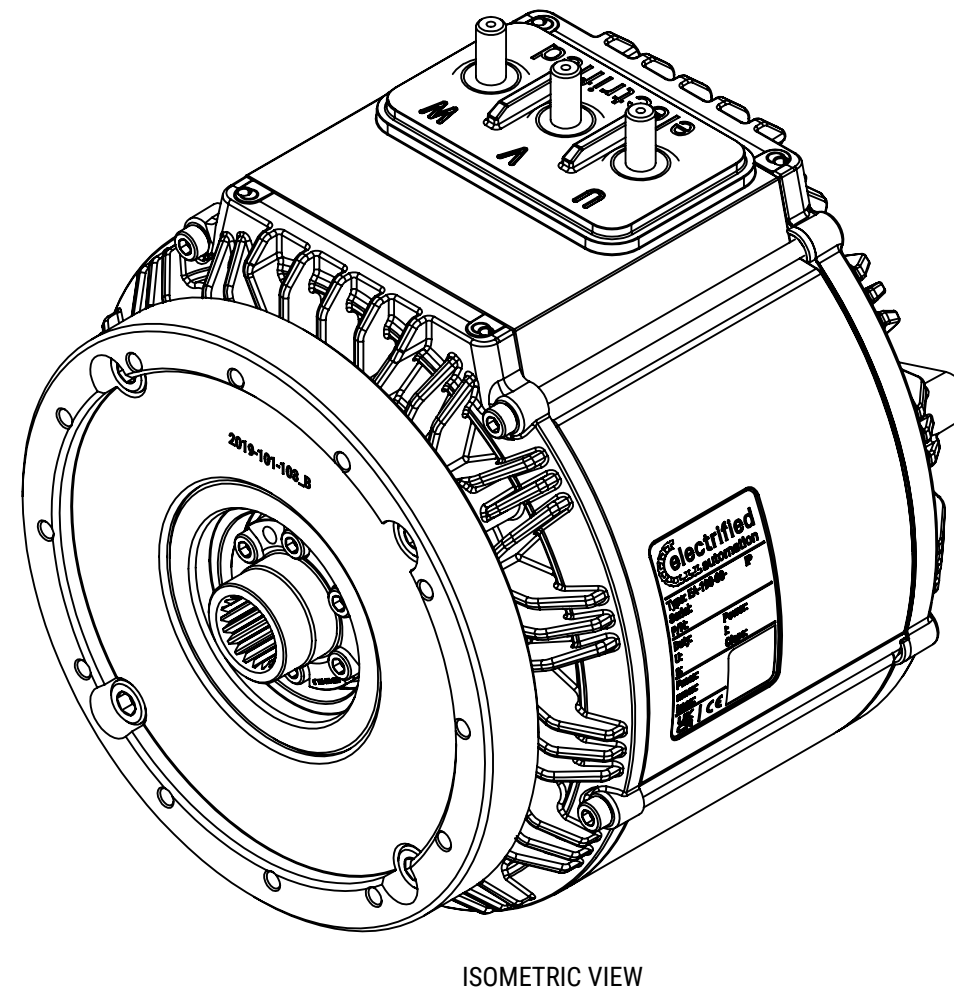
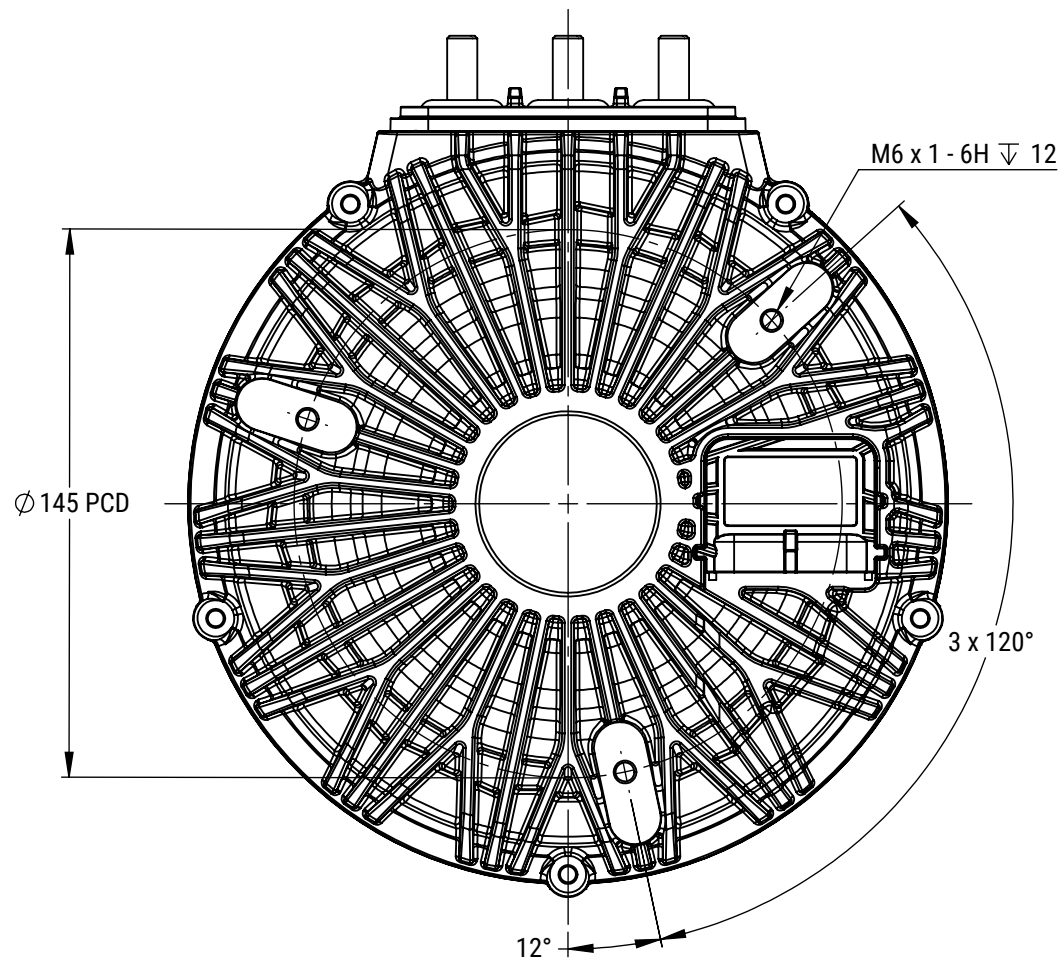
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APPROVED**

Sheet
1 OF 2

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INTERNAL INVOLUTE SPLINE DATA				
SPEC	ANSI B92.1 1996			
SPLINE TYPE	FILLET ROOT SIDE FIT			
CLASS				5
NUMBER OF TEETH				19
SPLINE PITCH				24/48
PRESSURE ANGLE	°	45		
BASE DIAMETER	mm	14.216	REF	
PITCH DIMETER	mm	20.109	REF	
MAJOR DIAMETER	mm	21.820	MAX	
FORM DIAMETER	mm	21.290		
MINOR DIAMETER	mm	19.610		
		19.480		
MAX MEASUREMENT BETWEEN PINS	mm	17.054		
PIN DIAMETER	mm	2.032		

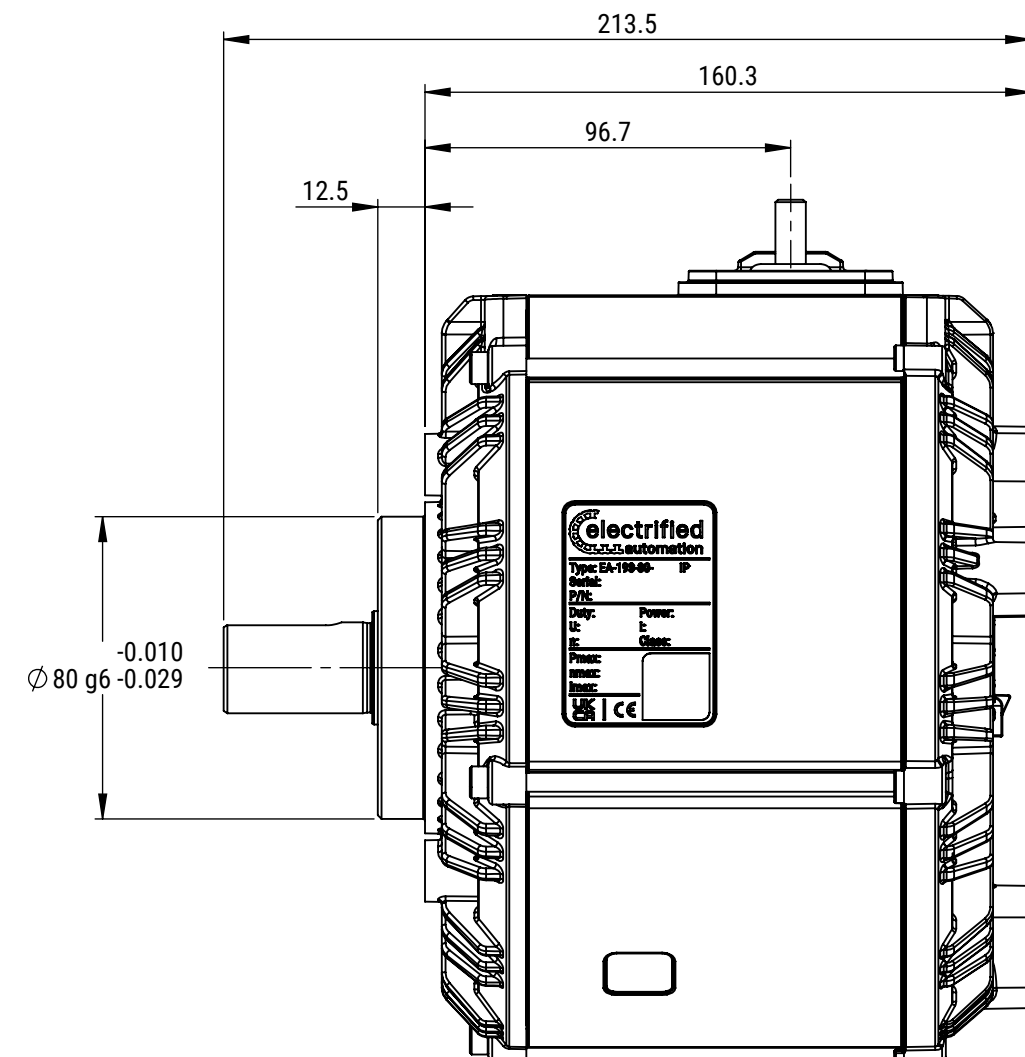
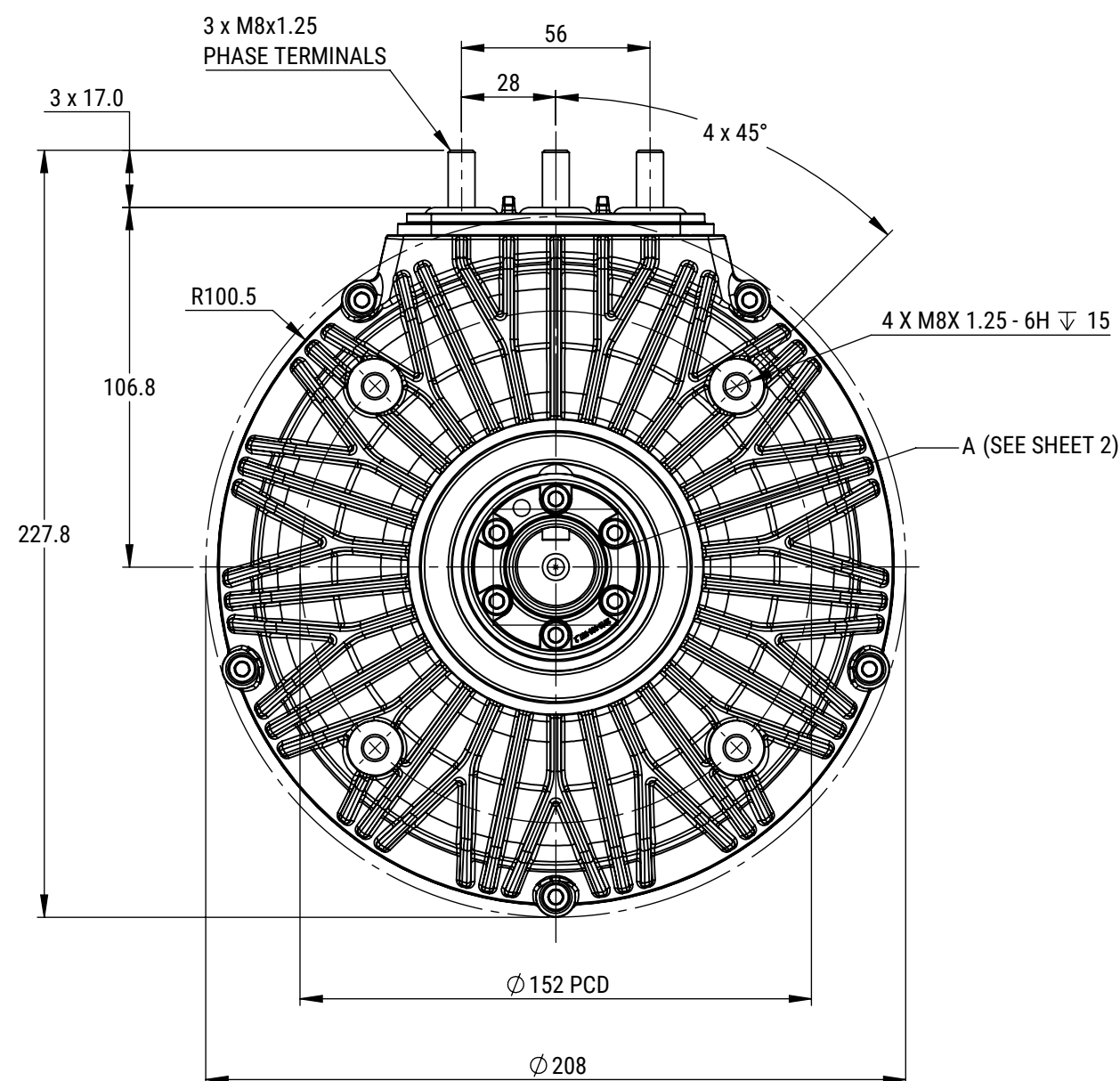


Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
A	1st Rel	First Release	SD	-	OS	01/02/2024

TITLE:		193-080-10A+, E-AXLE 1,	
		48V, IP65	
DWG NO.		2019-002-064	

		ELECTRIFIED AUTOMATION LTD, UNIT 4 BEECH BUSINESS PARK, BRIDGWATER, SOMERSET, TA6 4FF, UNITED KINGDOM	
Rev	Scale	Mass	IF IN DOUBT - ASK ALL DIMENSION IN MM CONFORMS TO BS8888
A	1:2	~19.16kg	

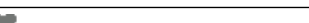
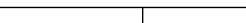
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Document type	Document Status	Sheet	
ASSEMBLY DRAWING	PROTOTYPE APPROVED	2 OF 2	A3

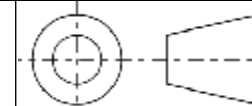


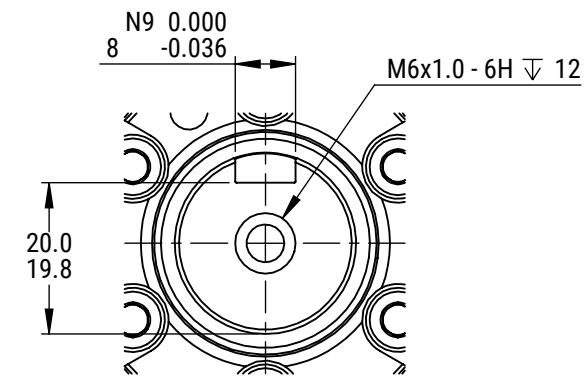
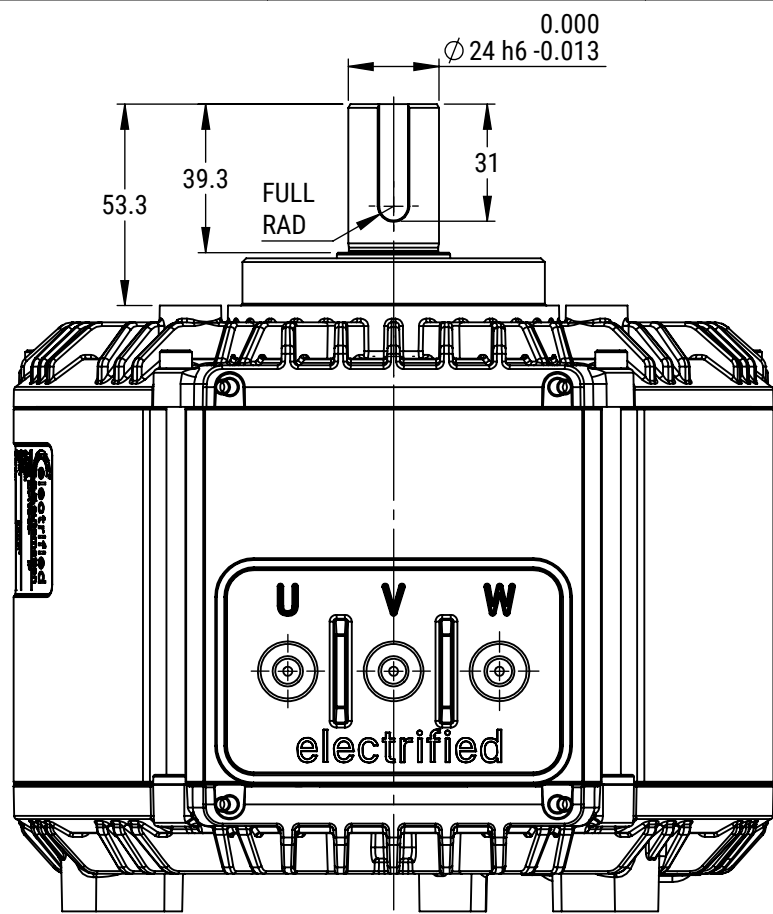
MOTOR TYPE	EA-193-80-10A+		 ENCODER: SUPERSEAL 1.5 SOCKET MATING PLUG P/N: 282090-1 MATING PIN P/N: 183035-1 PIN 1 : 5V PIN 2 : TEMP PIN 3 : SIN PIN 4 : COS PIN 5 : GND PIN 6 : SHIELD	CUSTOMER APPROVAL:
VOLTAGE	VDC	48		NAME:
IEC DUTY	S2	60		DATE:
RATED POWER	KW	10		SIGNED:
RATED SPEED	RPM	4000		
RATED FREQ.	HZ	333		
IP RATING*	IP	65		
INSUL. CLASS	-	200		
SENSOR CYCLES	CPR	5		
TEMP SENSOR	PT1000	CLASS B		

NOTES:

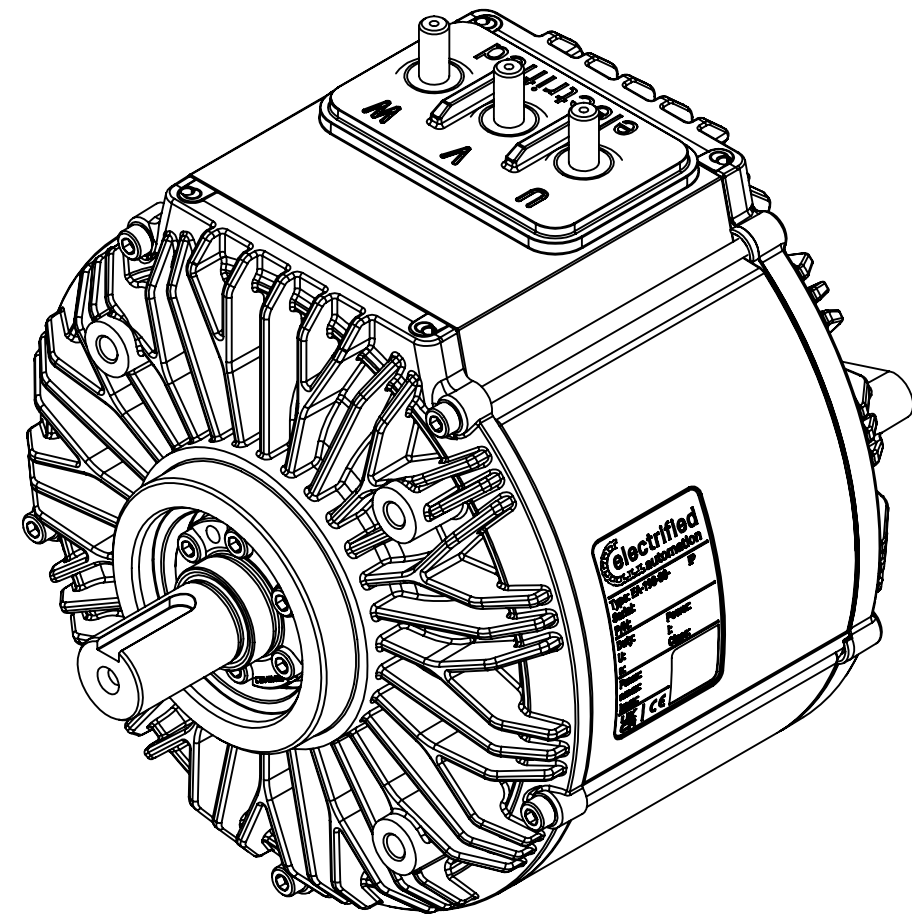
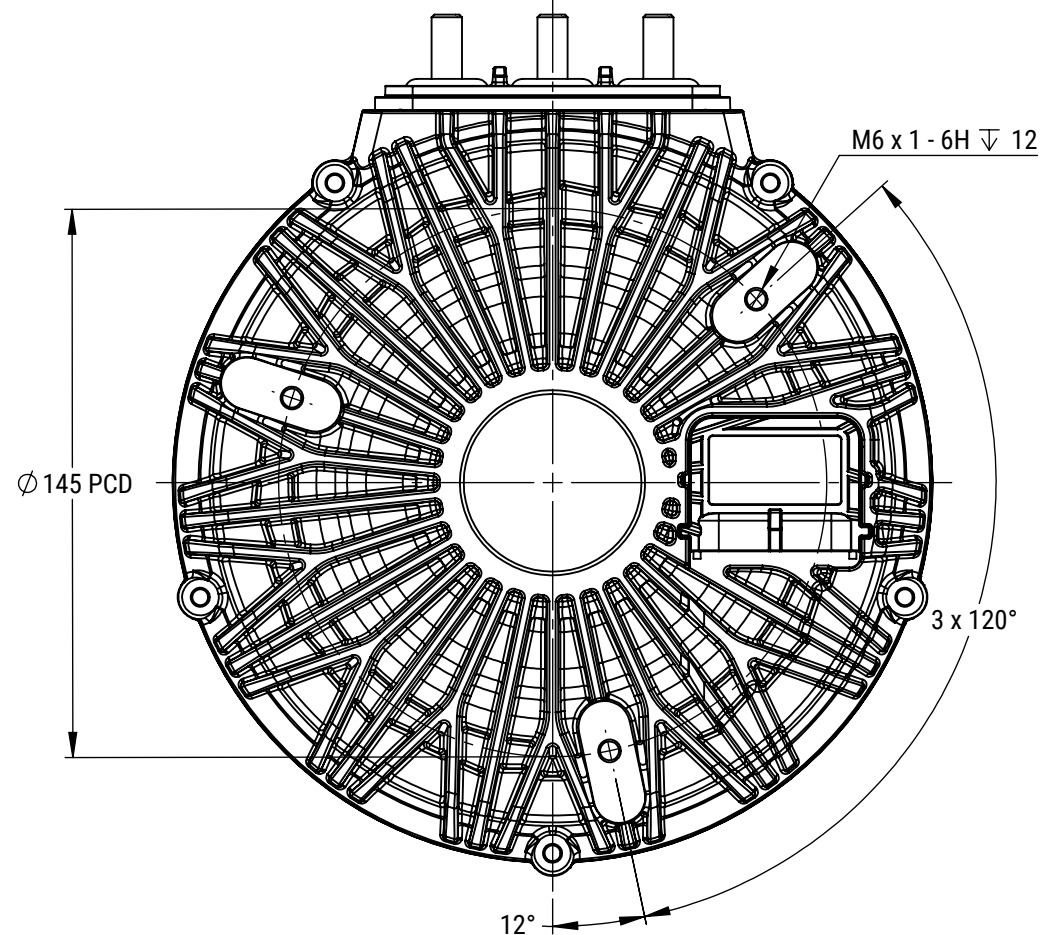
1. KEYWAY DIMENSIONS TO ISO/R773
2. SHAFT ROTATES CW, WHEN VIEWED FROM DRIVE END, WHEN COSINE SIGNAL LEADS SINE SIGNAL BY 90 DEGREES
3. SHAFT ROTATES CW, WHEN VIEWED FROM DRIVE END, WHEN U-V-W WIRED PER DIAGRAM
4. TERMINAL NUTS: TORQUE TO 15Nm
5. SEE MANUAL FOR RECOMMENDED TORQUE VALUES OF MOTOR FASTENERS
6. ESTIMATED ROTATIONAL MOMENT OF INERTIA: 11043 kg/mm²
7. * IP RATINGS - SEE USER MANUAL FOR FURTHER DETIALS

Rev	Change Ref	Description	Drawn By	Checked	Approved	Date	TITLE:			 ELECTRIFIED AUTOMATION LTD, UNIT 4 BEECH BUSINESS PARK, BRIDGWATER, SOMERSET, TA6 4FF, UNITED KINGDOM			©2024 Electrified Automation Ltd. REPRODUCTION OR TRANSMISSION OF DATA HEREIN IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM ELECTRIFIED AUTOMATION LTD.		STRICTLY NO DEVIATION FROM DRAWING PERMISSABLE WITHOUT APPROVED CONCESSION FROM ELECTRIFIED AUTOMATION			
A	1st Rel	First Release	SD	-	OS	01/02/2024	193-080-10A+, STD, 24MM KEYED, 48V, IP65											
							DWG NO.			Rev	Scale	Mass	IF IN DOUBT - ASK ALL DIMENSION IN MM CONFORMS TO BS8888		Document type ASSEMBLY DRAWING	Document Status PROTOTYPE APPROVED	Sheet 1 OF 2	A3
							2019-002-065			A	1:2	~18.53kg						





DETAIL A
SCALE 1 : 1



ISOMETRIC VIEW

Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
A	1st Rel	First Release	SD	-	OS	01/02/2024

TITLE:
**193-080-10A+, STD,
24MM KEYED, 48V, IP65**

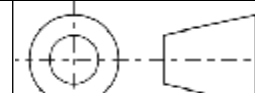
DWG NO.
2019-002-065

Rev
A

Scale
1:2

Mass
~18.53kg

IF IN DOUBT - ASK
ALL DIMENSION IN MM
CONFORMS TO BS8888



Document type
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Document Status
**PROTOTYPE
APPROVED**

Sheet
2 OF 2

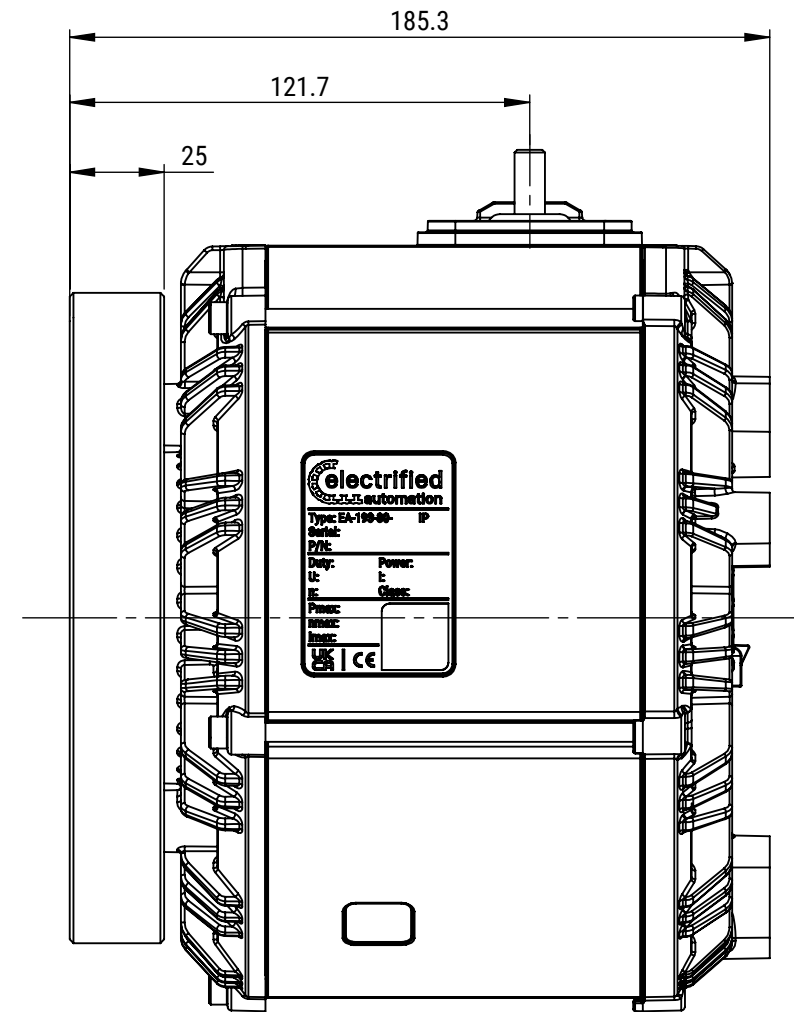
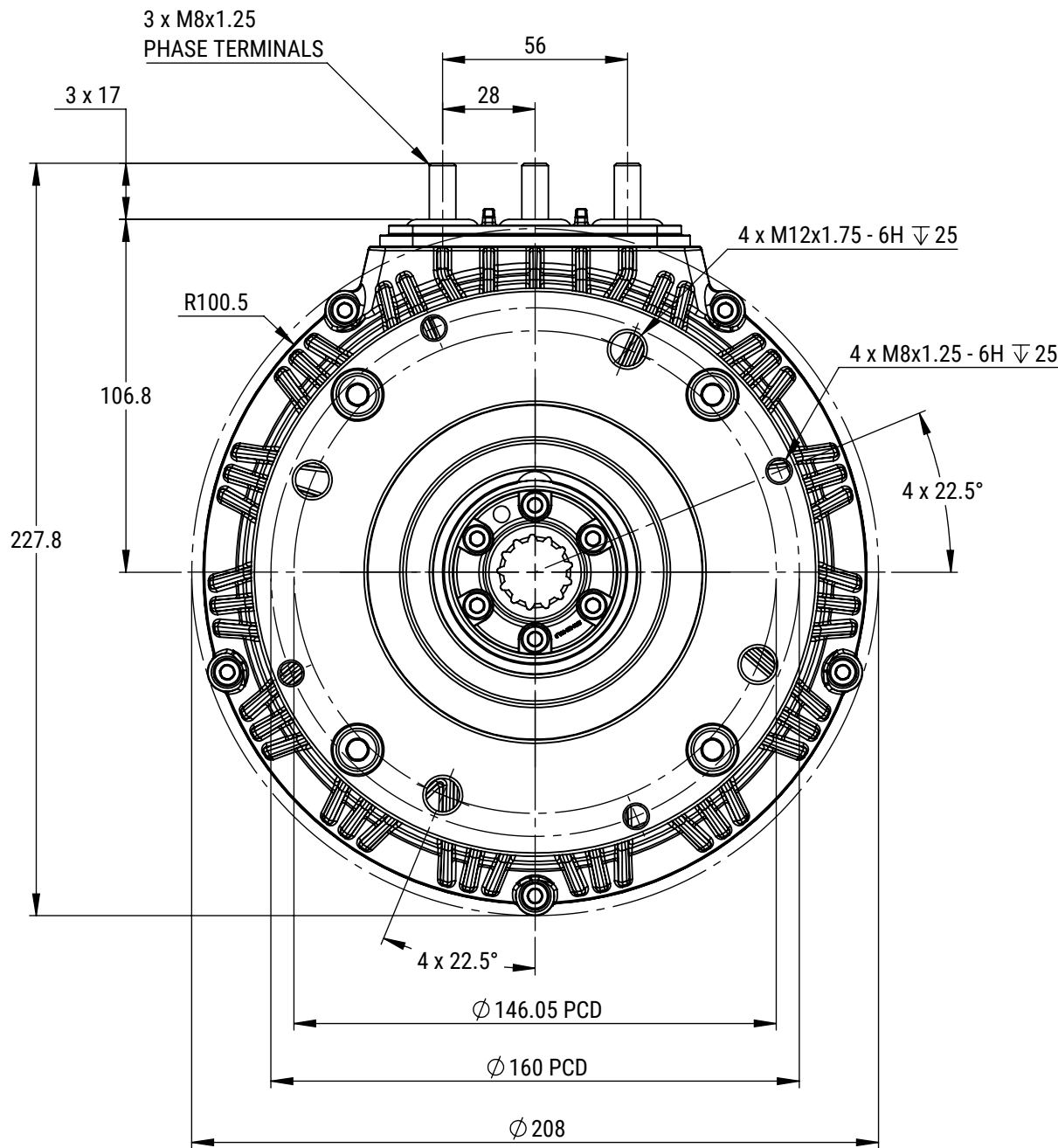
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D

MOTOR TYPE		EA-193-80-13A		ENCODER:	SUPERSEAL 1.5 SOCKET	CUSTOMER APPROVAL:
VOLTAGE	VDC	48		MATING PLUG P/N:		NAME:
IEC DUTY	S2	60		282090-1		DATE:
RATED POWER	KW	8				SIGNED:
RATED SPEED	RPM	2500				
RATED FREQ.	HZ	208			MATING PIN P/N:	
IP RATING*	IP	65			183035-1	
INSUL. CLASS	-	200				
SENSOR CYCLES	CPR	5				
TEMP SENSOR	PT1000	CLASS B				

NOTES:

- SHAFT ROTATES CW, WHEN VIEWED FROM DRIVE END, WHEN COSINE SIGNAL LEADS SINE SIGNAL BY 90 DEGREES
- SHAFT ROTATES CW, WHEN VIEWED FROM DRIVE END, WHEN U-V-W WIRED PER DIAGRAM
- TERMINAL NUTS: TORQUE TO 15Nm
- SEE MANUAL FOR RECOMMENDED TORQUE VALUES OF MOTOR FASTENERS
- ESTIMATED ROTATIONAL MOMENT OF INERTIA: 11025 kg/mm²
- *IP RATINGS - SEE USER MANUAL FOR FURTHER DETAILS

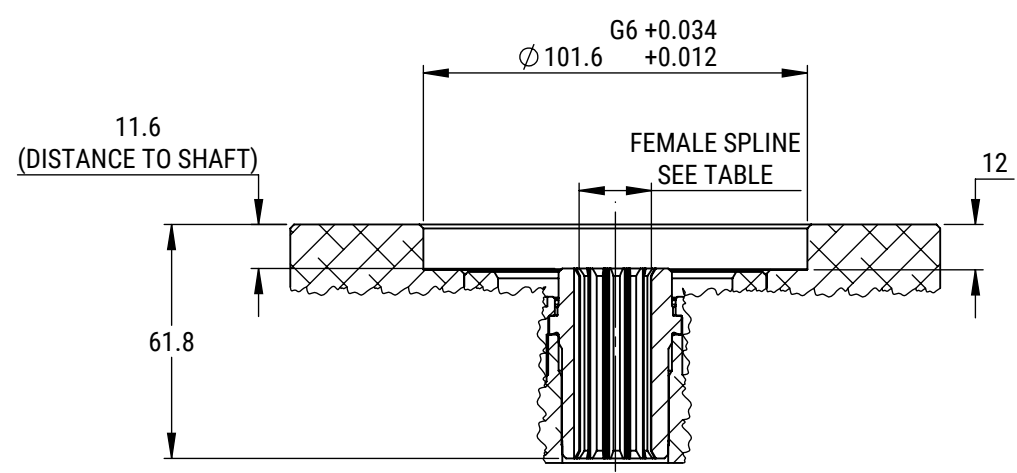
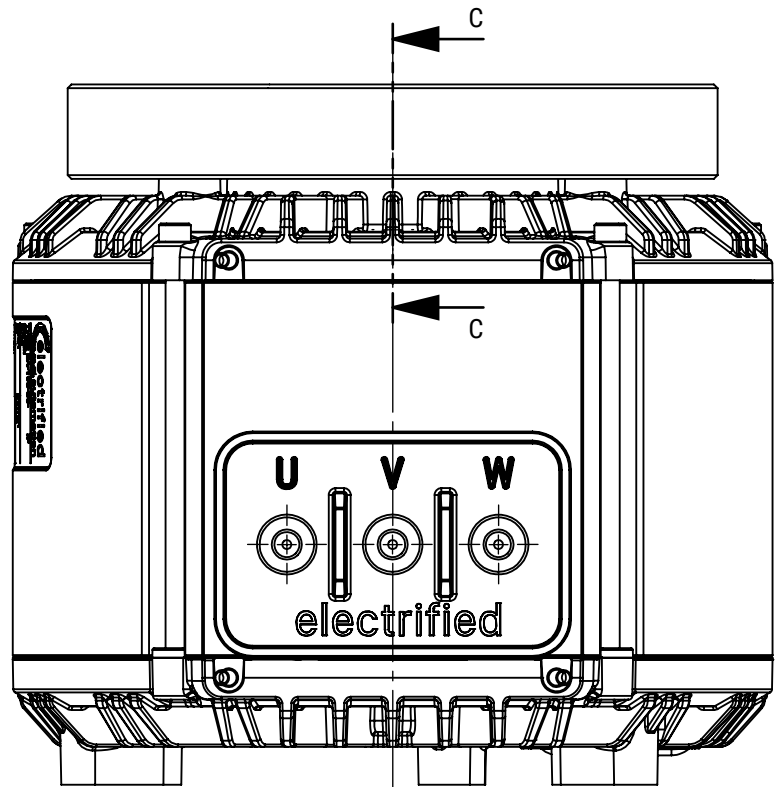
Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
D	4th Rel	MOTOR DETAIL UPDATE	SD	-	OS	08/02/2024
C	3rd Rel	CHG ADAPTER PLATE, GENERAL DRAWING UPDATES	AR	-	SD	10/11/2023
B	2nd Rel	Correcting Shaft and Bolt Numbers	AR	-	OS	26/10/2023
A	1st Rel	First Release	SD	-	AR	20/10/2023

TITLE:		193-080-13A, SAE B, Z13,	
		48V, IP65	
DWG NO.	Rev	Scale	Mass
2019-002-004	D	1:2	~19.39kg

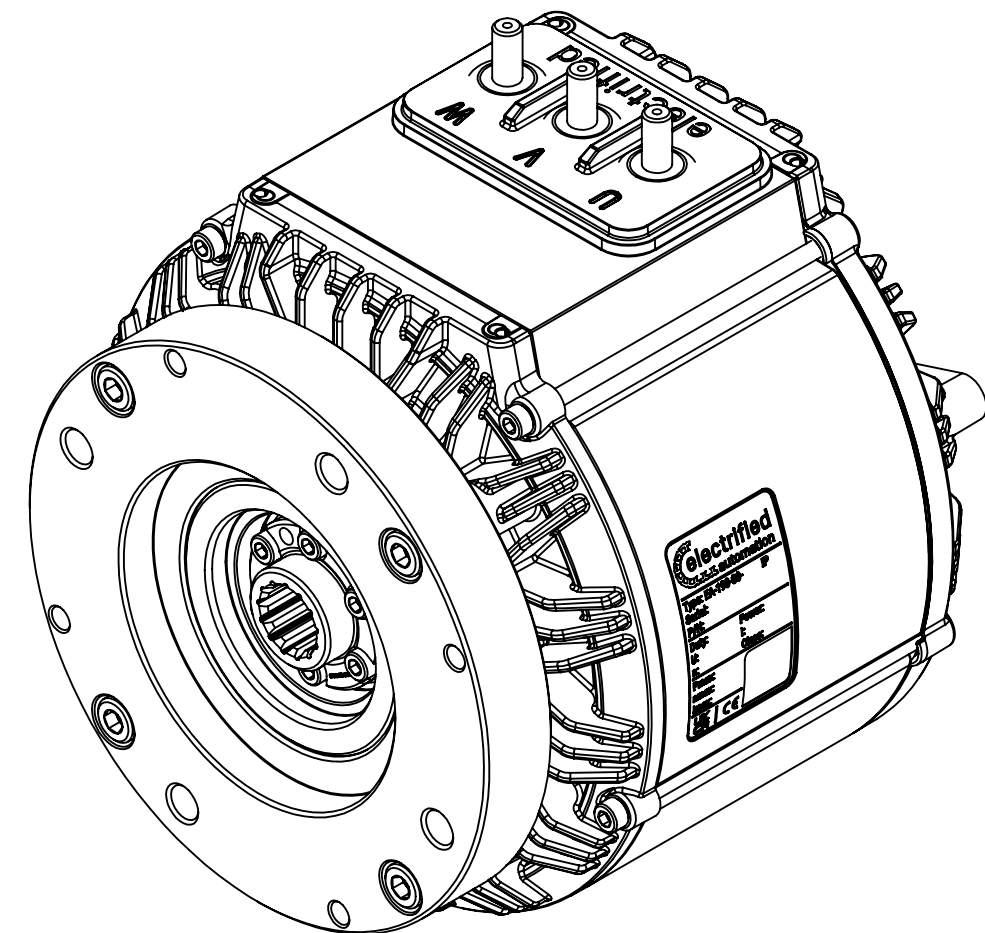
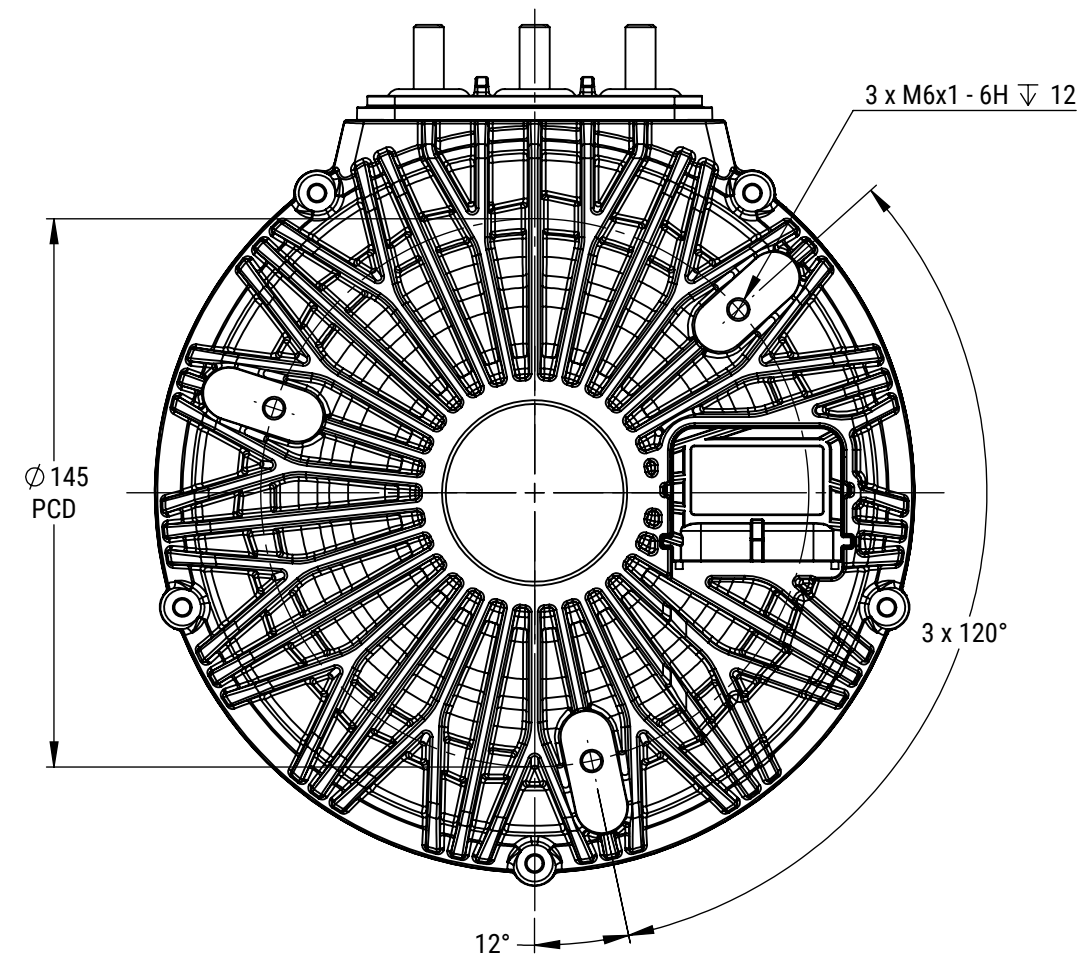
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CONFORMS TO BS8888

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Document type	Document Status	Sheet	
ASSEMBLY DRAWING	PROTOTYPE APPROVED	1 OF 2	A3



INTERNAL INVOLUTE SPLINE DATA			
SPEC	ANSI B92.1 1996		
SPLINE TYPE	FLAT ROOT - SIDE FIT		
CLASS	5		
NUMBER OF TEETH	13		
SPLINE PITCH	16/32		
PRESSURE ANGLE	°	30	
BASE DIAMETER	mm	17.873	REF
PITCH DIAMETER	mm	20.638	REF
MAJOR DIAMETER	mm	22.885	MAX
FORM DIAMETER	mm	22.327	
MINOR DIAMETER	mm	19.279	
	mm	19.152	
MAX MEASUREMENT BETWEEN PINS	mm	16.589	
PIN DIAMETER	mm	2.743	



Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
D	4th Rel	MOTOR DETAIL UPDATE	SD	-	OS	08/02/2024
C	3rd Rel	CHG ADAPTER PLATE, GENERAL DRAWING UPDATES	AR	-	SD	10/11/2023
B	2nd Rel	Correcting Shaft and Bolt Numbers	AR	-	OS	26/10/2023
A	1st Rel	First Release	SD	-	AR	20/10/2023

TITLE:
**193-080-13A, SAE B, Z13,
48V, IP65**

DWG NO.
2019-002-004

ELECTRIFIED AUTOMATION LTD,
UNIT 4 BEECH BUSINESS PARK,
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SOMERSET, TA6 4FF, UNITED KINGDOM

IF IN DOUBT - ASK
ALL DIMENSION IN MM
CONFORMS TO BS8888

Rev
D

Scale
1:2

Mass
~19.39kg

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Document type ASSEMBLY DRAWING	Document Status PROTOTYPE APPROVED	Sheet 2 OF 2	A3