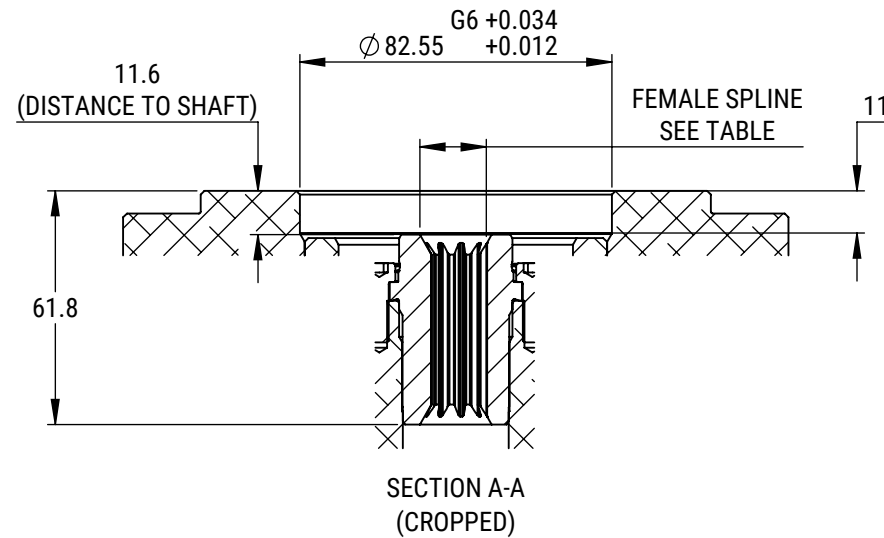
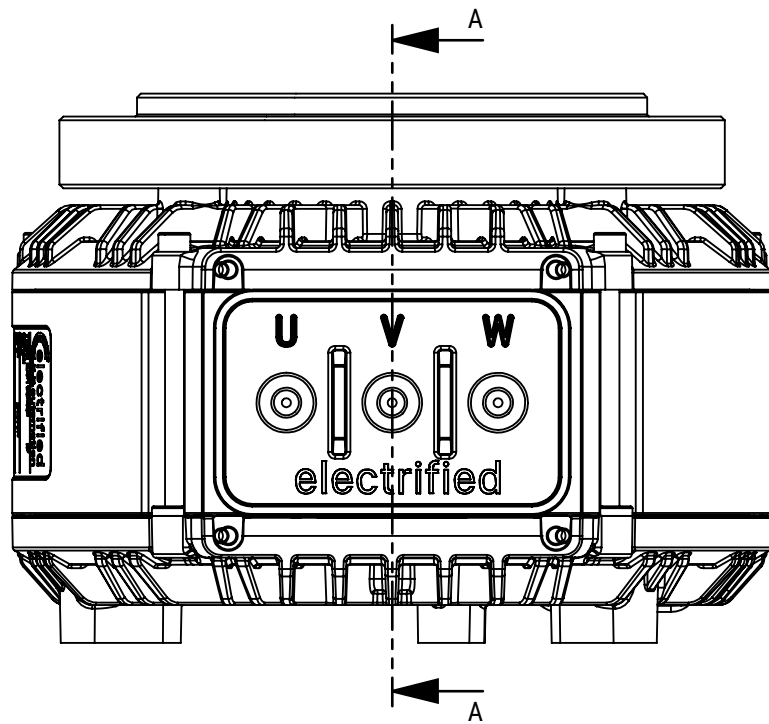
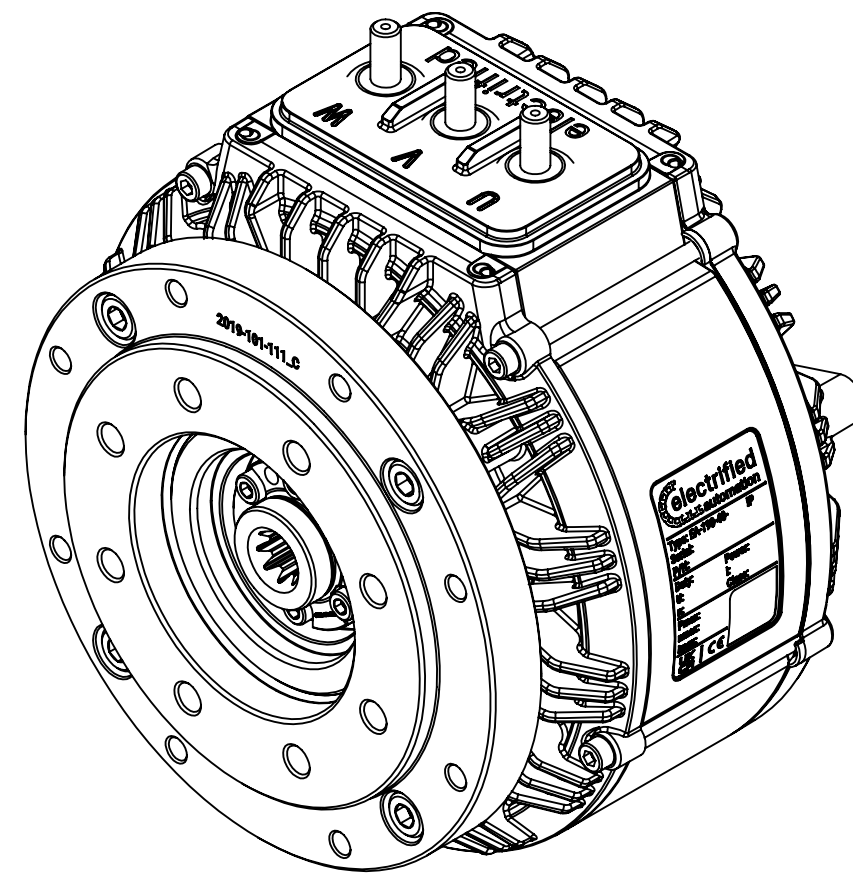
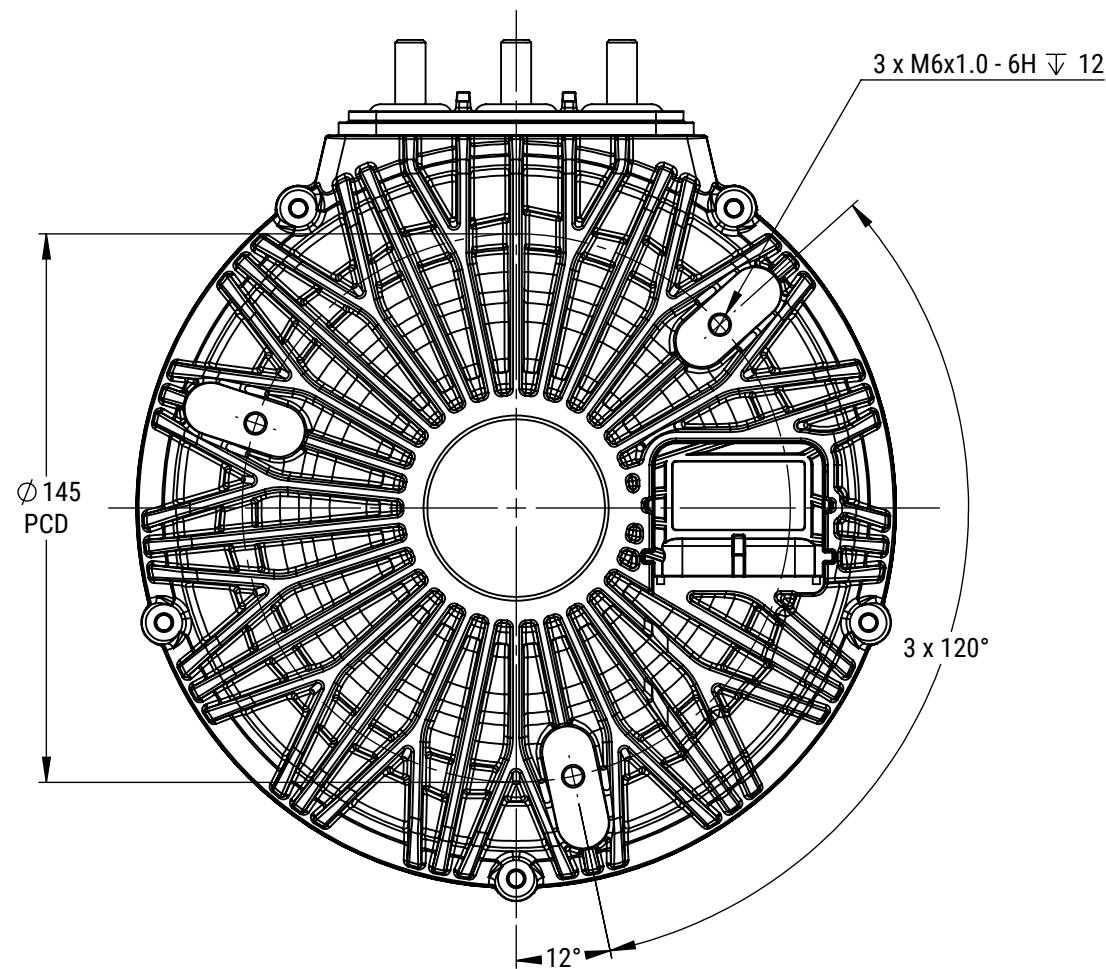




INTERNAL INVOLUTE SPLINE DATA				
SPEC	ANSI B92.1 1996			
SPLINE TYPE	FLAT ROOT - SIDE FIT			
CLASS				5
NUMBER OF TEETH				9
SPLINE PITCH				16/32
PRESSURE ANGLE	°		30	
BASE DIAMETER	mm	12.373	REF	
PITCH DIMETER	mm	14.288	REF	
MAJOR DIAMETER	mm	16.535	MAX	
FORM DIAMETER	mm	15.977		
MINOR DIAMETER	mm	13.056		
		12.929		
MAX MEASUREMENT BETWEEN PINS	mm	10.089		
PIN DIAMETER	mm	2.743		



ISOMETRIC VIEW

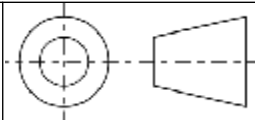
Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
A	1st Rel	First Release	BK	-	SD	05/02/2024

TITLE:		193-040-18A, SAE A, Z9,	
		48V, IP65	
DWG NO.	Rev	Scale	Mass
2019-002-060	A	1:2	~12.35kg

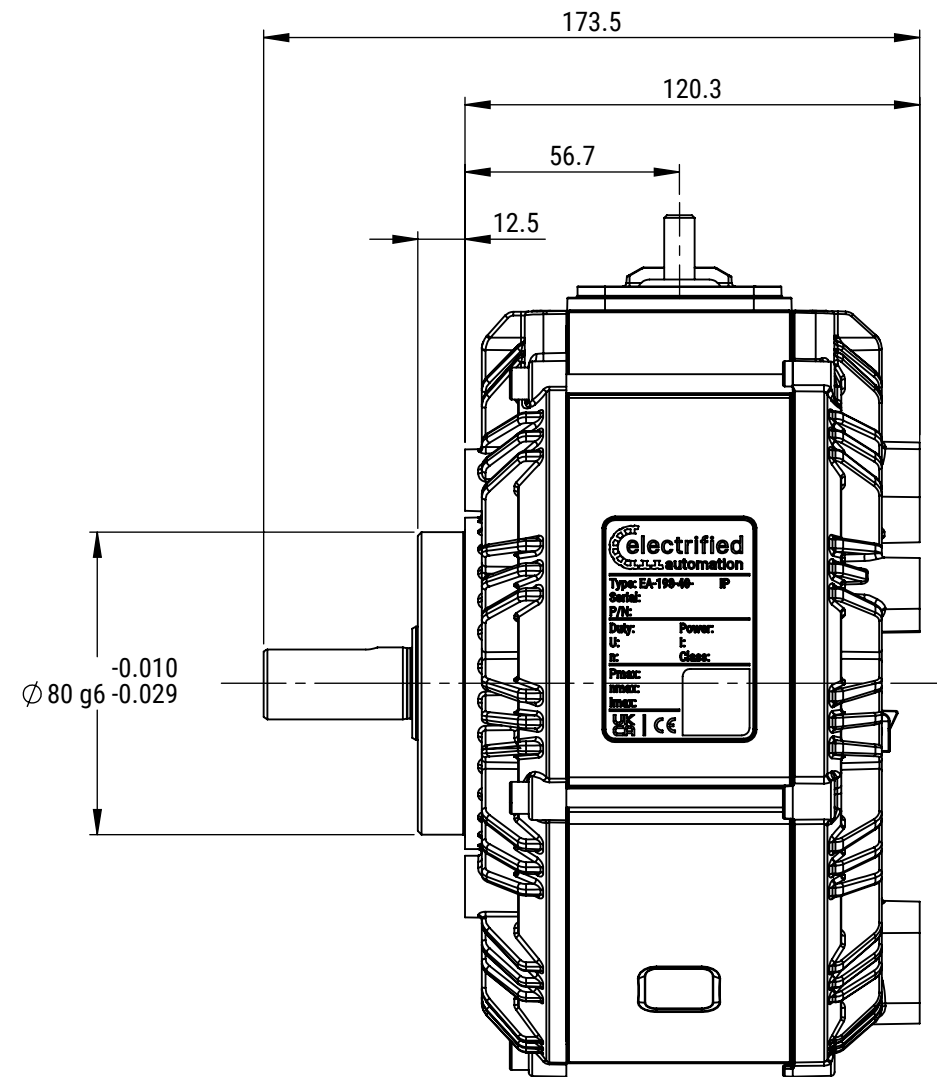
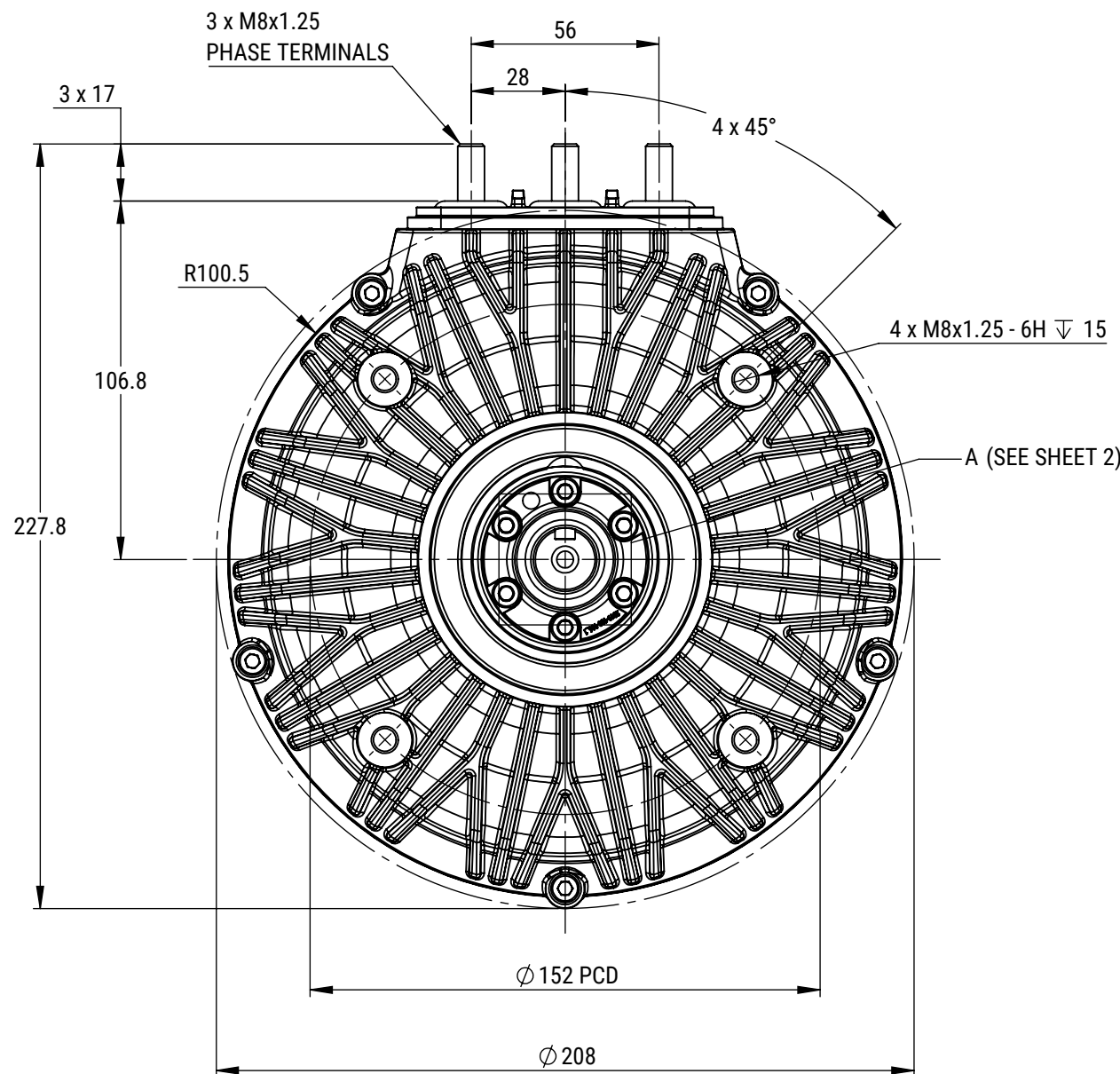


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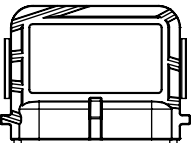
IF IN DOUBT - ASK
ALL DIMENSION IN MM
CONFORMS TO BS8888



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



MOTOR TYPE		EA-193-40-18A	
VOLTAGE	VDC	48	
IEC DUTY	S2	60	
RATED POWER	KW	5.5	
RATED SPEED	RPM	4000	
RATED FREQ.	HZ	333	
IP RATING*	IP	65	
INSUL. CLASS	-	200	
SENSOR CYCLES	CPR	5	
TEMP SENSOR	PT1000	CLASS B	

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:			
NAME:			
DATE:			
SIGNED:			

NOTES:

- KEYWAY DIMENSIONS TO ISO/R773
- 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: 5704 kg/mm²
- * IP RATINGS - SEE USER MANUAL FOR FURTHER DETAILS

Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
D	4th Rel	SHEET 3 ADDED FOR OPTIONAL TERMINAL COVER	SD	-	OS	12/02/2024
C	3rd Rel	GENERAL DRAWING UPDATES	AR	-	SD	10/11/2023
B	2nd Rel	DESCRIPTION UPDATED	SD	-	AR	24/10/2023
A	1st Rel	First Release	AR	-	SD	16/10/2023

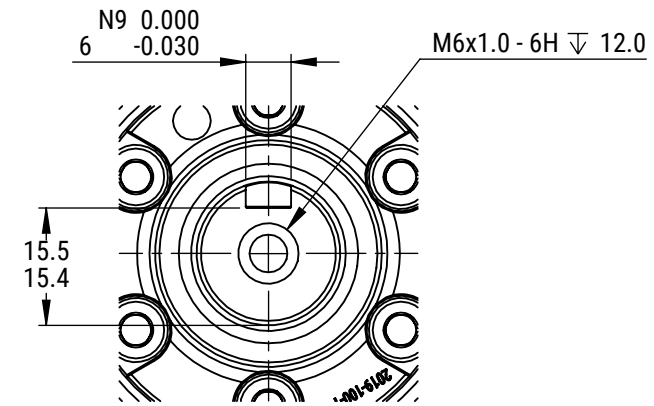
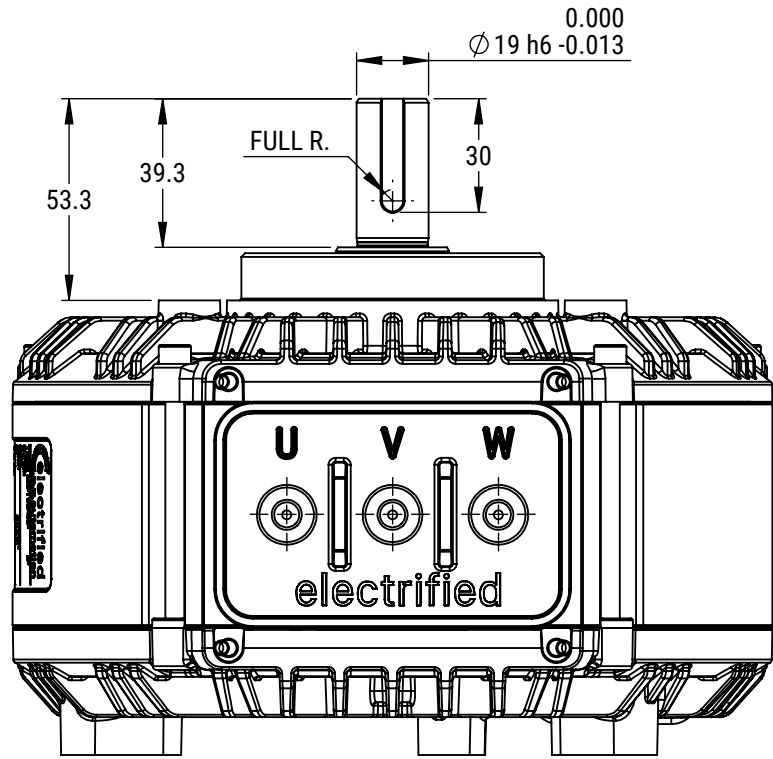
TITLE:		193-040-18A, STD, 19MM	
		KEYED, 48V, IP65	
DWG NO.		2019-002-001	

	
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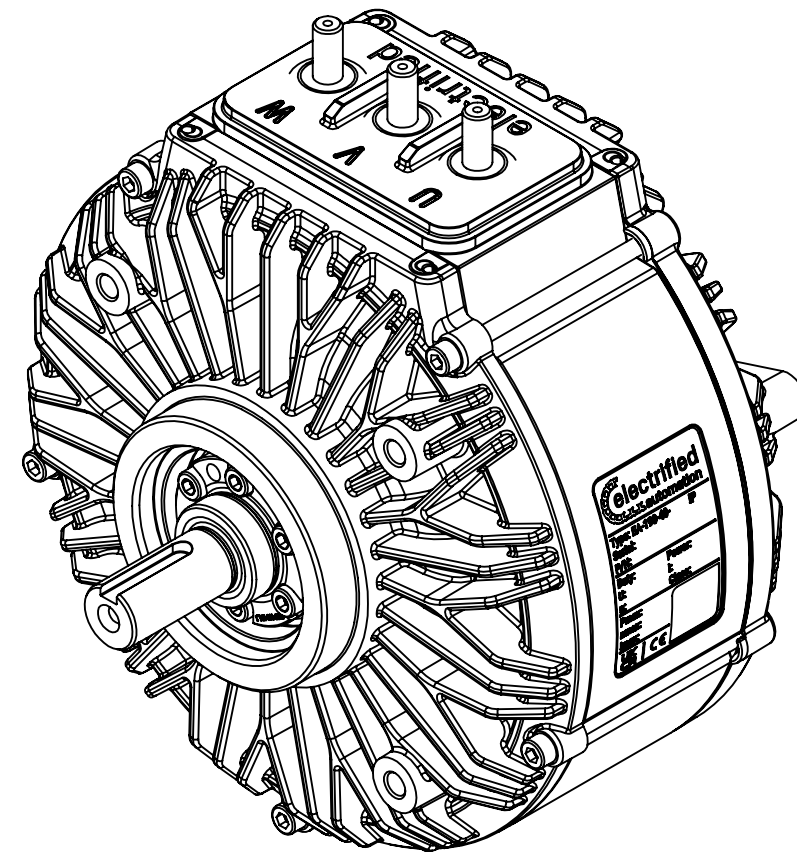
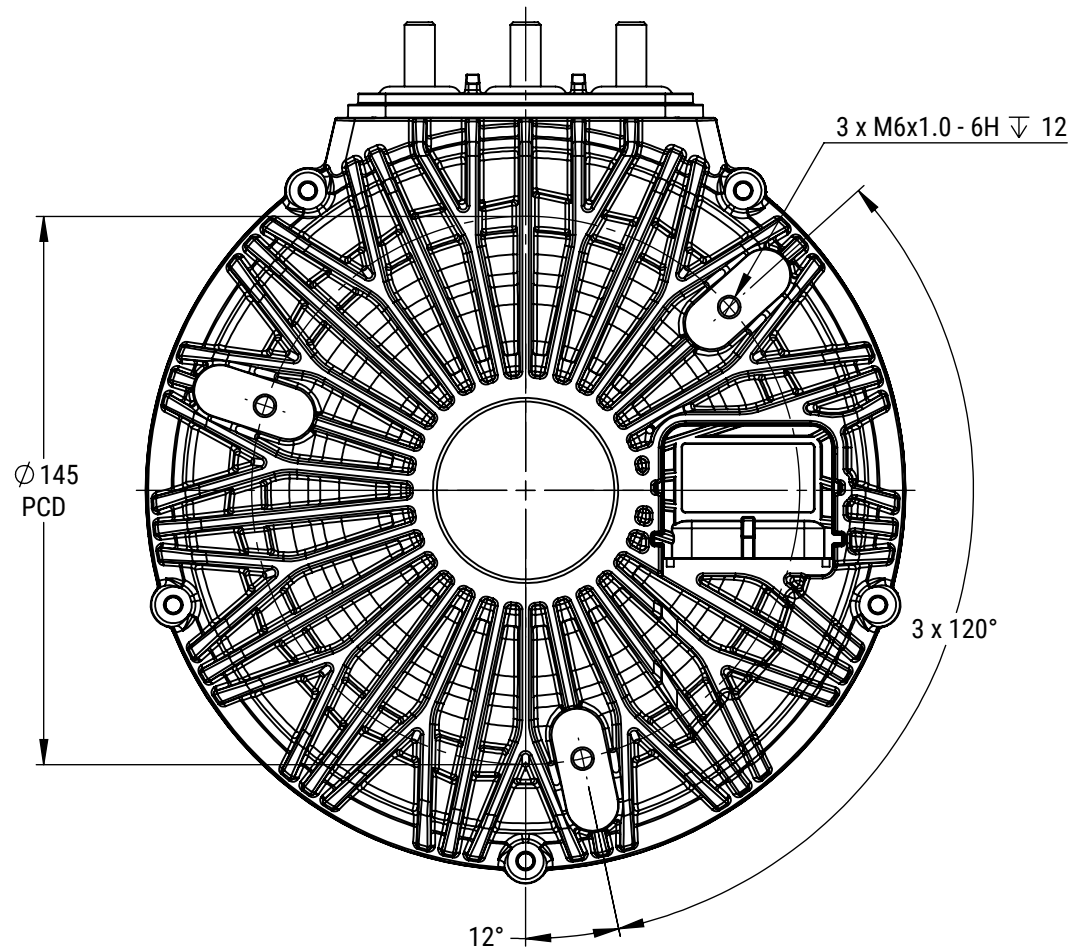
IF IN DOUBT - ASK ALL DIMENSION IN MM CONFORMS TO BS8888	
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Document type ASSEMBLY DRAWING	
Document Status PROTOTYPE APPROVED	

Sheet 1 OF 3	
A3	



DETAIL A
SCALE 1 : 1



ISOMETRIC VIEW

Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
D	4th Rel	SHEET 3 ADDED FOR OPTIONAL TERMINAL COVER	SD	-	OS	12/02/2024
C	3rd Rel	GENERAL DRAWING UPDATES	AR	-	SD	10/11/2023
B	2nd Rel	DESCRIPTION UPDATED	SD	-	AR	24/10/2023
A	1st Rel	First Release	AR	-	SD	16/10/2023

TITLE:
**193-040-18A, STD, 19MM
KEYED, 48V, IP65**

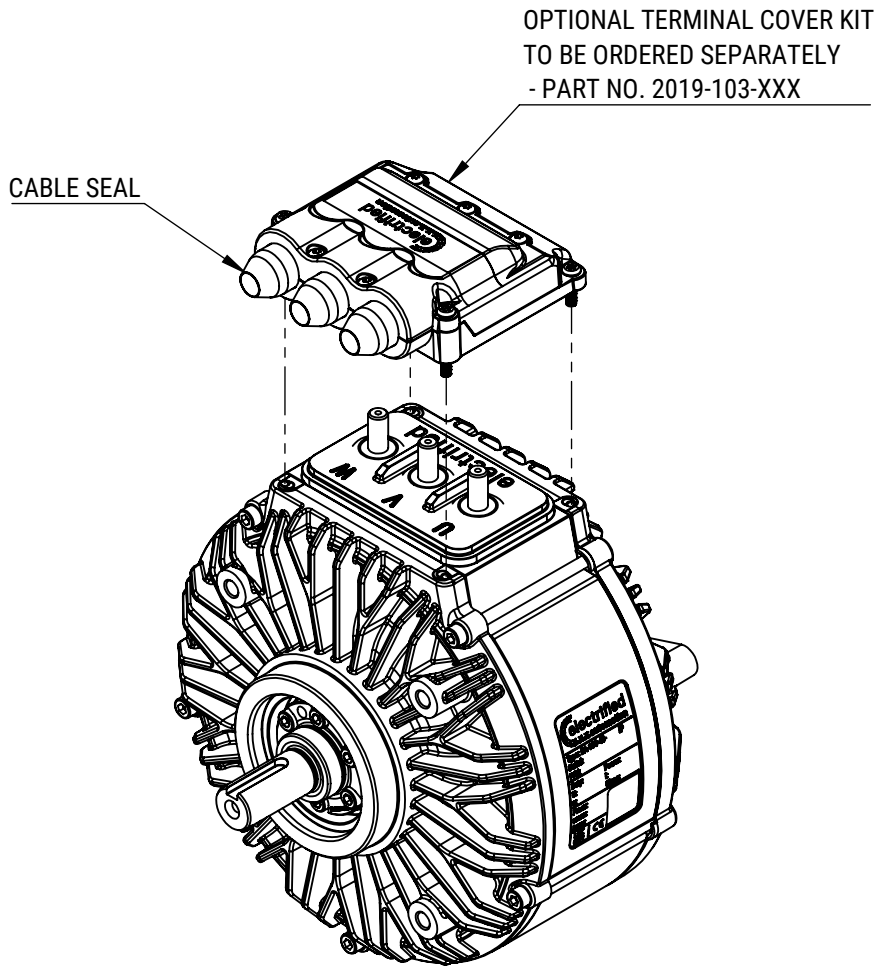
DWG NO.
2019-002-001

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

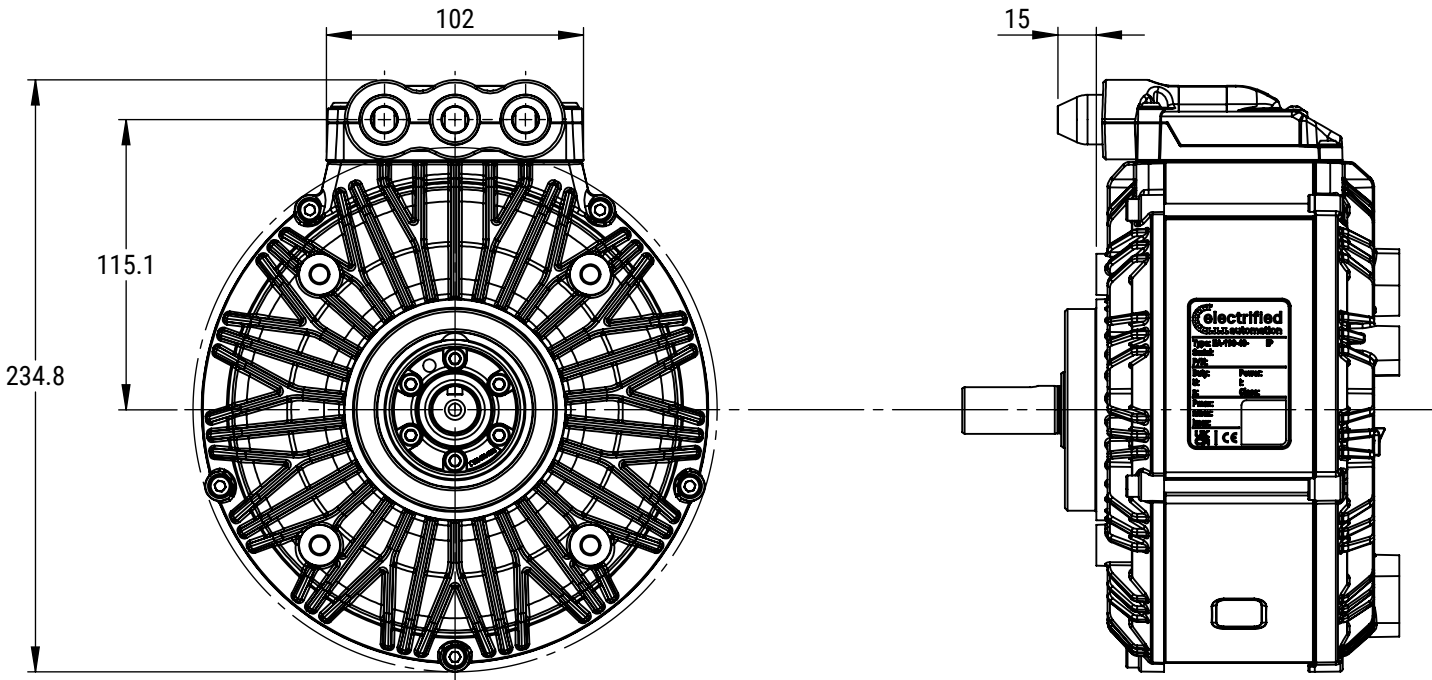
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Document type ASSEMBLY DRAWING	Document Status PROTOTYPE APPROVED	Sheet 2 OF 3	A3

OPTIONAL TERMINAL COVER

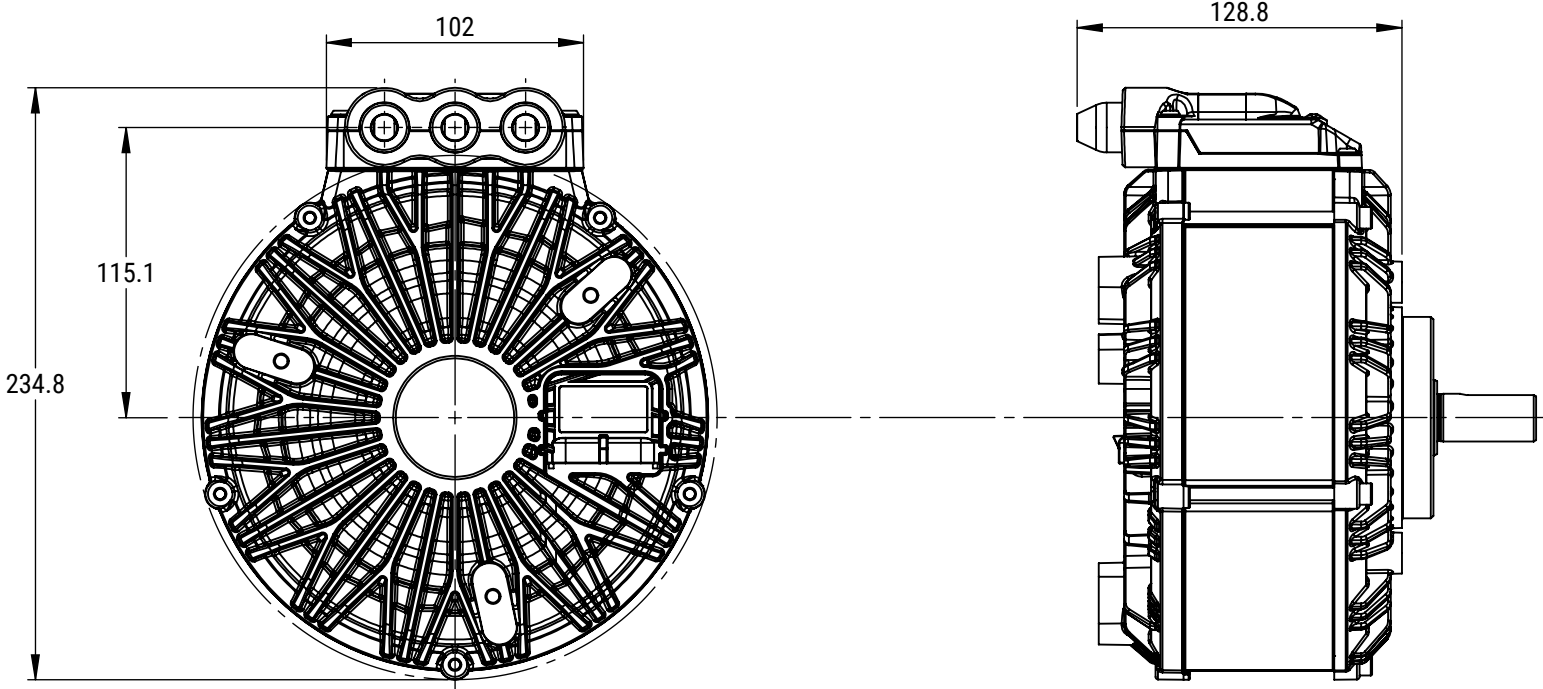


CABLE SEAL	
SUITABLE FOR CABLE OUTER DIAMETER	11.8mm - 15.0mm
NOMINAL SEAL SIZE	11.0mm

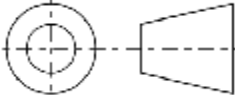
TERMINAL COVER FITTED - DRIVE END

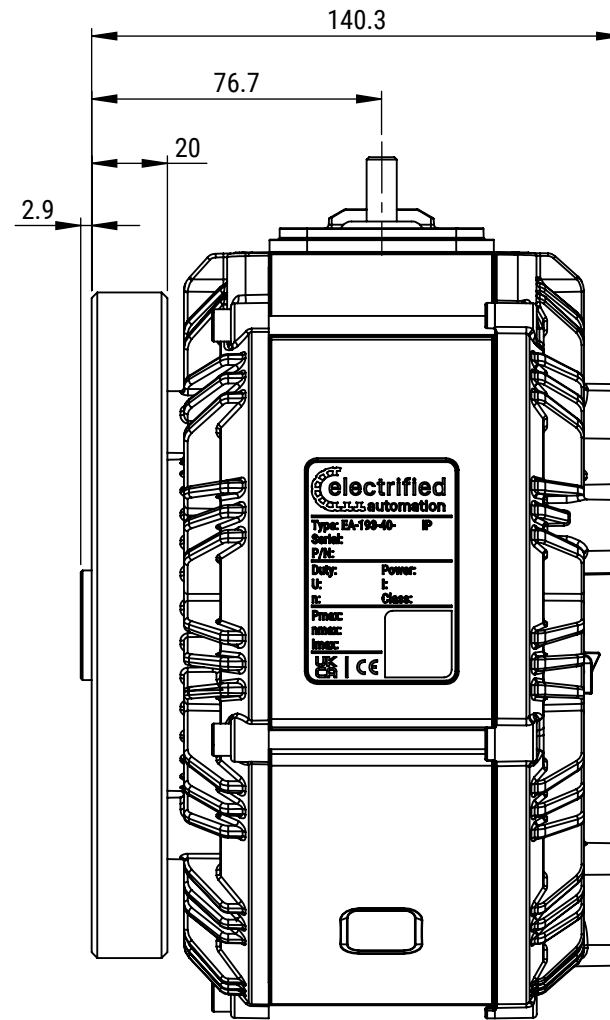
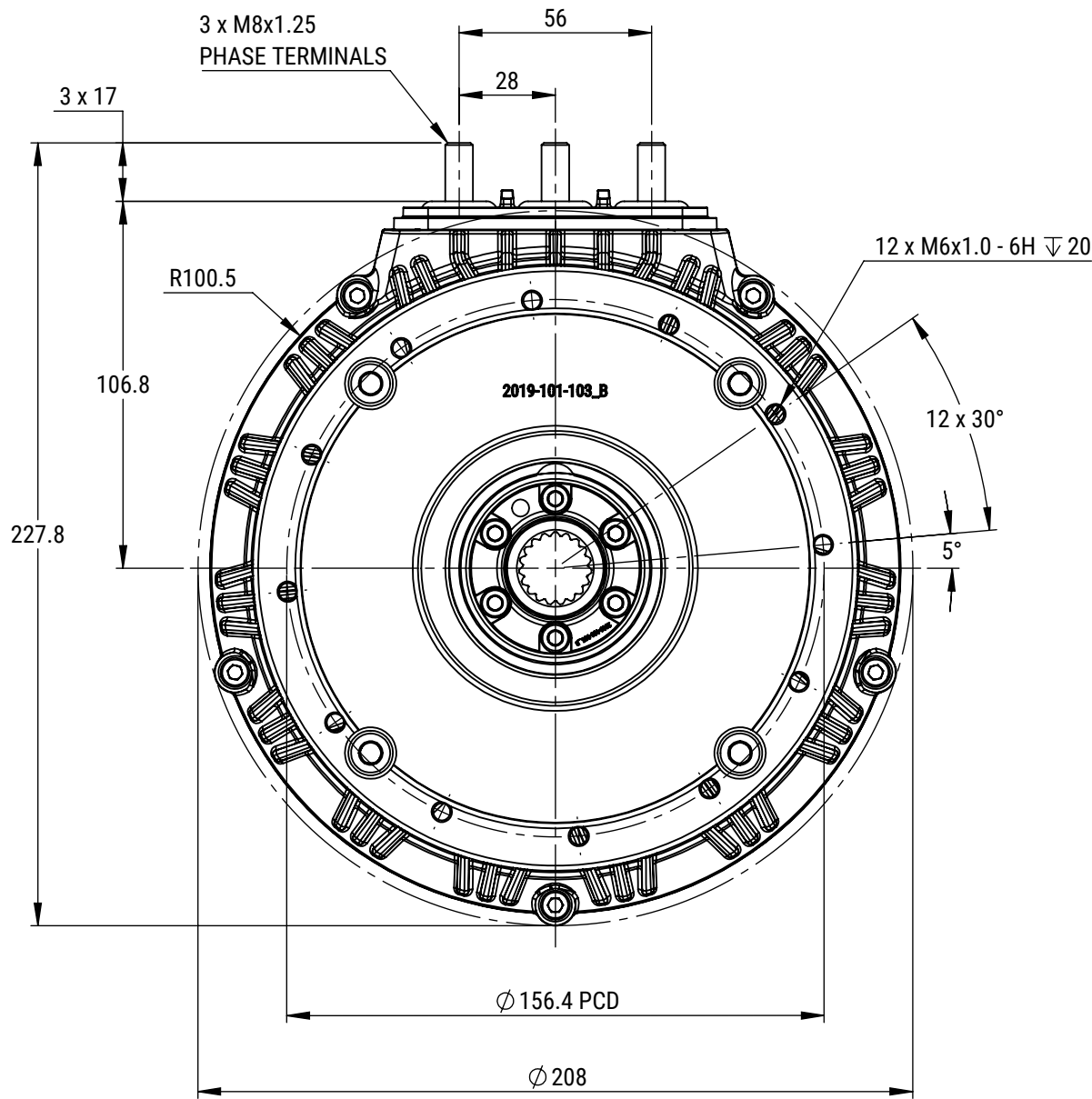


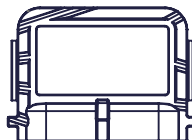
TERMINAL COVER FITTED - NON DRIVE END



Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
D	4th Rel	SHEET 3 ADDED FOR OPTIONAL TERMINAL COVER	SD	-	OS	12/02/2024
C	3rd Rel	GENERAL DRAWING UPDATES	AR	-	SD	10/11/2023
B	2nd Rel	DESCRIPTION UPDATED	SD	-	AR	24/10/2023
A	1st Rel	First Release	AR	-	SD	16/10/2023

TITLE: 193-040-18A, STD, 19MM KEYED, 48V, IP65			 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		
DWG NO. 2019-002-001	Rev D	Scale 1:3	Mass ~11.30kg	IF IN DOUBT - ASK ALL DIMENSION IN MM CONFORMS TO BS8888			Document type ASSEMBLY DRAWING	Document Status PROTOTYPE APPROVED	Sheet 3 OF 3	A3	



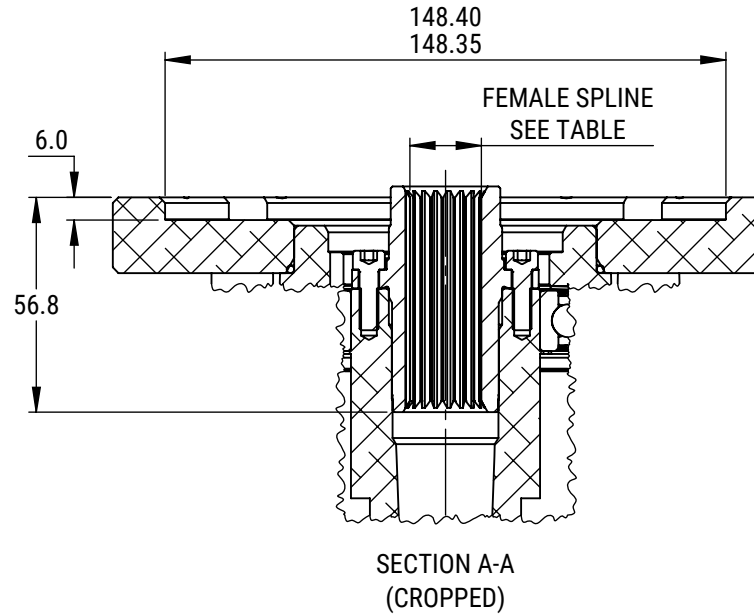
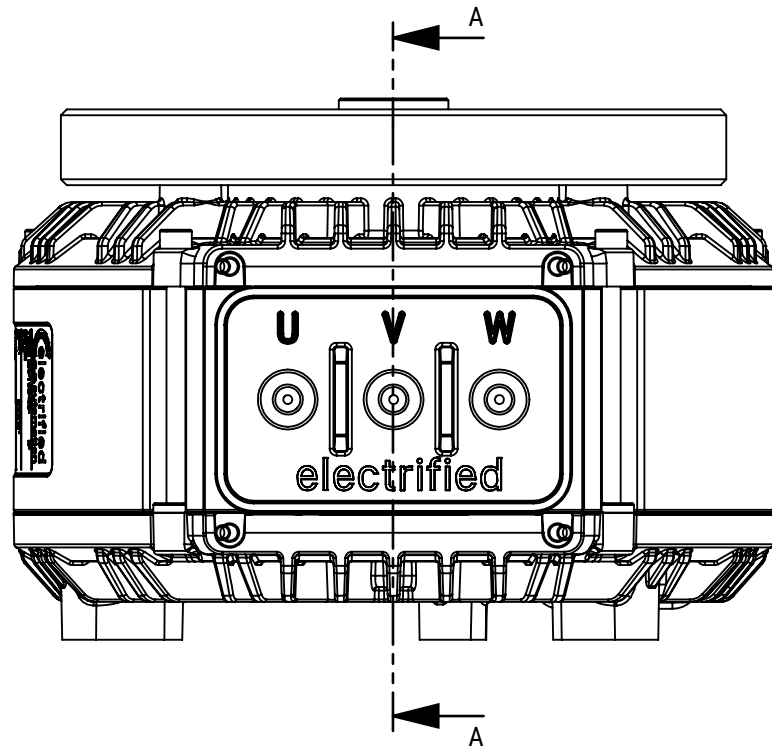
MOTOR TYPE		EA-193-40-18A+		ENCODER:  PIN 1 : 5V PIN 2 : TEMP PIN 3 : SIN PIN 4 : COS PIN 5 : GND PIN 6 : SHIELD	SUPERSEAL 1.5 SOCKET		CUSTOMER APPROVAL:	
VOLTAGE		VDC	48		MATING PLUG P/N:		NAME:	
IEC DUTY		S2	60		282090-1			
RATED POWER		KW	5.5				DATE:	
RATED SPEED		RPM	4000		MATING PIN P/N:		SIGNED:	
RATED FREQ.		HZ	333		183035-1			
IP RATING*		IP	65					
INSUL. CLASS		-	200					
SENSOR CYCLES		CPR	5					
TEMP SENSOR		PT1000	CLASS B					

Rev	Change Ref	Description	Drawn By	Checked	Approved	Date
A	1st Rel	First Release	SD	-	OS	13/02/2024

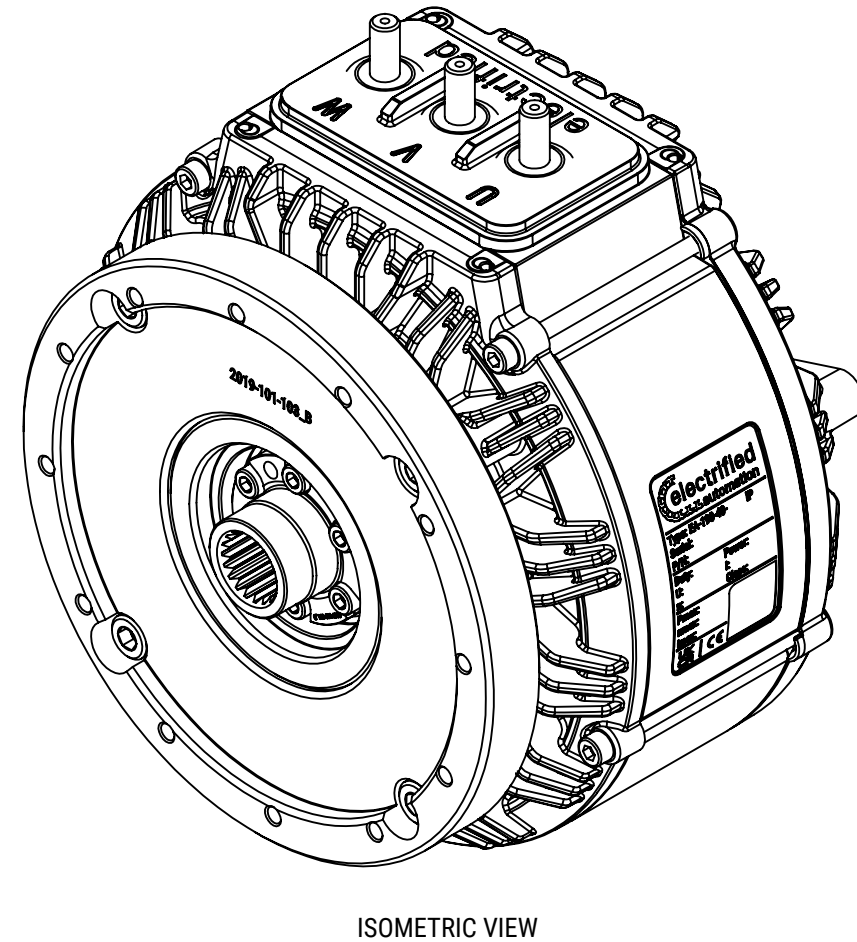
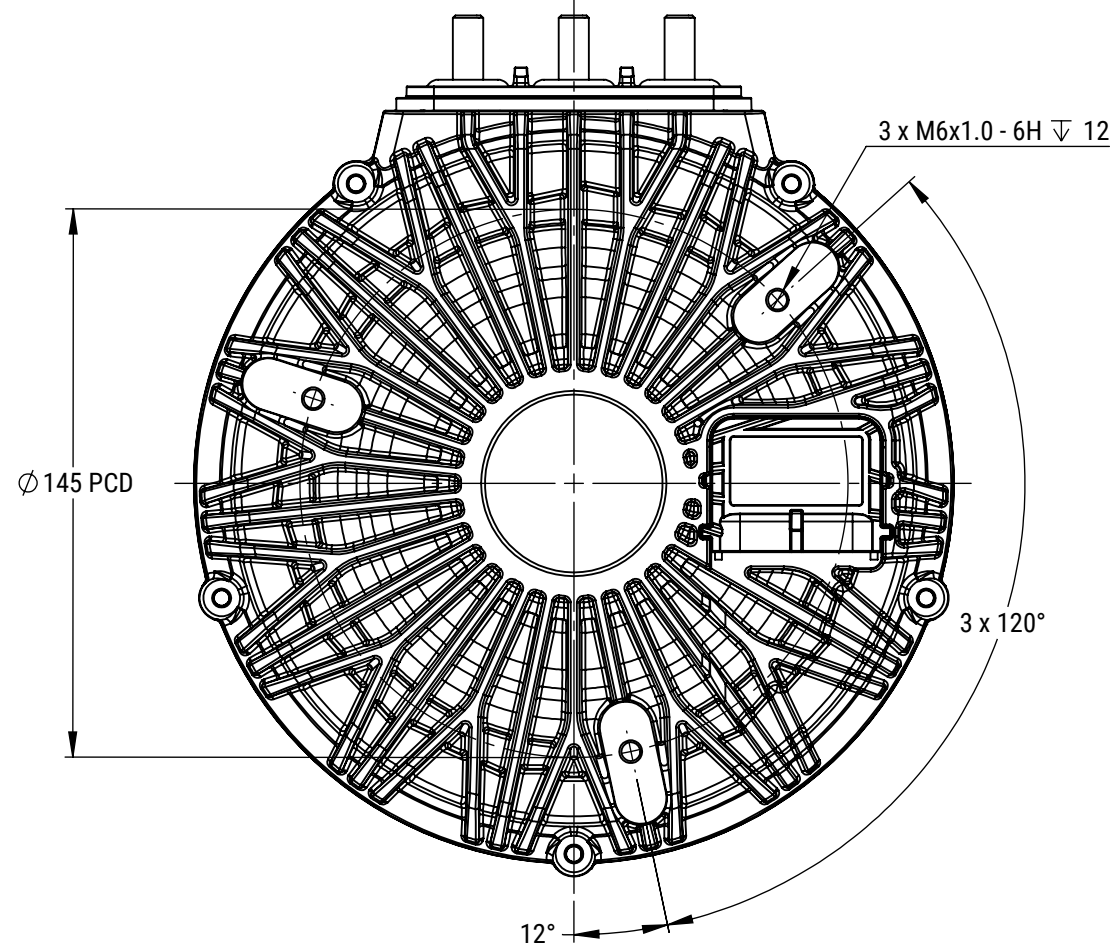
TITLE:		193-040-18A+, E-AXLE 1,	
		48V, IP65	
DWG NO.		2019-002-069	
Rev	A	Scale	1:2

- 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: 5698 kg/mm²
 - * IP RATINGS - SEE USER MANUAL FOR FURTHER DETAILS

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



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	13/02/2024

TITLE:		193-040-18A+, E-AXLE 1,	
		48V, IP65	
DWG NO.		2019-002-069	

		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	~12.05kg	

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