

ALL DIMENSIONS IN MILLIMETRES

# BRUSHLESS MOTOR WITH HEIDENHAIN ERN1387 OR ERN1185 ENCODER

Fit Size	Tolerance

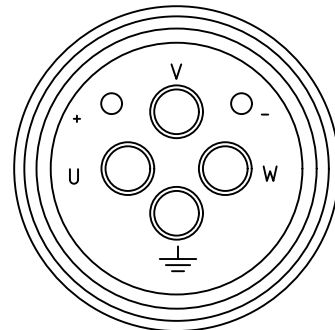
## SUPPLY CONNECTOR (OPTION)

PIN	FUNCTION
U	MOTOR U
V	MOTOR V
1	- (size 3 only)
2	- (size 3 only)
+	BRAKE B+ (if fitted)
-	BRAKE B- (if fitted)
W	MOTOR W
⊥	MOTOR EARTH

PIN	FUNCTION
1	MOTOR U
2	MOTOR V
4	BRAKE B+ (if fitted)
5	BRAKE B- (if fitted)
6	MOTOR W
⊥	MOTOR EARTH

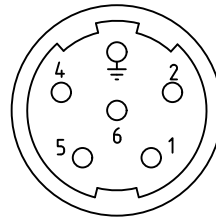
## FEEDBACK CONNECTOR

PIN	FUNCTION	WIRE COLOUR	PIN ENC.
1	A+ (0°Signal)	GREEN/BLACK	6b
2	A- (0°Signal)	YELLOW/BLACK	2a
3	R+ (Ref Signal)	RED	4b
4	D- (Cosinus)	PINK	6a
5	C+ (Sinus)	GREEN	7b
6	C- (Sinus)	BROWN	1a
7	0V (Un)	WHITE/GREEN	5b
8	THERMAL SENSOR +	BROWN	---
9	THERMAL SENSOR -	WHITE	---
10	+5V (Up)	BROWN/GREEN	1b
11	B+ (90°Signal)	BLUE/BLACK	3b
12	B- (90°Signal)	RED/BLACK	5a
13	R- Ref Signal)	BLACK	4a
14	D+ (Cosinus)	GREY	2b
15	0V (Sensor Un)	WHITE	3a
16	+5V (Sensor Up)	BLUE	7a
17			

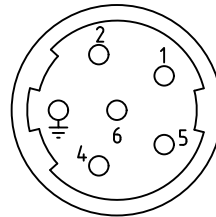


INTERCONNECTRON  
SIZE 1.5 6 PIN

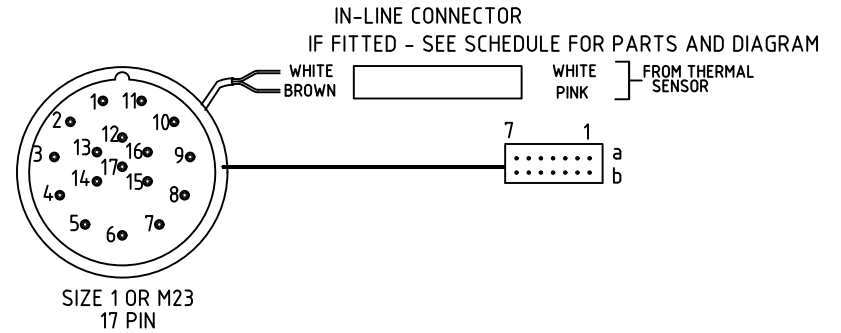
OR  
TE SIZE M40  
6 PIN



INTERCONNECTRON  
SIZE 1 6 PIN



TE SIZE M23



NOTE! THIS DIAGRAM IS FOR 'Q' TYPE CABLES WHICH DO NOT HAVE THE VIOLET WIRE CONNECTED AT THE ENCODER END. CHECK THE CABLE.

CONNECTORS ARE NOT TO SCALE

CONNECTORS VIEWED FROM INSIDE THE MOTOR  
WIRES COME FROM THE MOTOR AND  
INTO THE CONNECTORS FROM THE VIEWER'S PERSPECTIVE

Rev	Drawn	Responsible	Released	Material	Text	General Tolerancing ISO 8015	Surfaces compl. ISO 1302	Original Scale	Form	Name	Date	Version	Revision	Sheet	Page
A	NEW DRAWING	AT	04.06.98	-	-										
B	MR1848 - TERMINAL BOX OPTION ADDED	-	-	-	-										
C	MR1917 - REF TO MOTOR FRAME SIZE REMOVED	-	-	-	-										
D	???	-	-	-	-										
E	???	-	-	-	-										
F	???	-	-	-	-										
G	???	-	-	-	-										
H	MR4707 - CONNECTORS REDRAWN FROM MOTOR SIDE	G.M.	02/07/09	SH	190809										
J	MR4997 NOTE ADDED RE WHICH TYPE OF ENCODER LEAD USED	SH	09.08.11	PK	04.10.11										
K	CO27939 RSF ASSEMBLED KTY WITH DIFFERENT COLOUR THERMAL SENSOR LEAD	ASG	06.04.17	PN	24.04.17										
L	Removed Terminal Box Diagram Added TE size M40 Option Text Added TE size 23 Diagram Removed Thermal Sensor Connector Diagram	CDT	17.11.23	PH	1/12/23										

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Blank Surfaces  
Edges ISO 13715  
-0,3  
+0,3

Surfaces compl. ISO 1302

Original Scale

Form

Name

Date

Version

Revision

Sheet

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Document-number

