

A

B

C

D

A

B

C

D

A3

Connection type	Circuit diagram page	Connector type
Power connection	Page 2	Amphenol Powerlok connectors without HVIL: PL00X-300-10M8 Amphenol Powerlok connectors with HVIL: PL00X-301-10M8
Signal connection	Page 3-4	Amphenol M12 B code connectors, male, 4 POS: C10-700581-4BP; Amphenol M12 A code connector, male, 8 POS: C10-700581-8AP
HE/TEMP connection	Page 5	Amphenol M12 B code connector, male, 4 POS: C10-700581-4BP

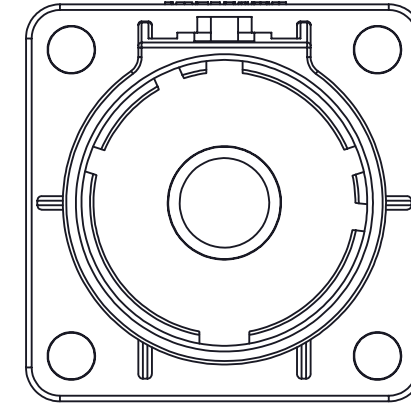
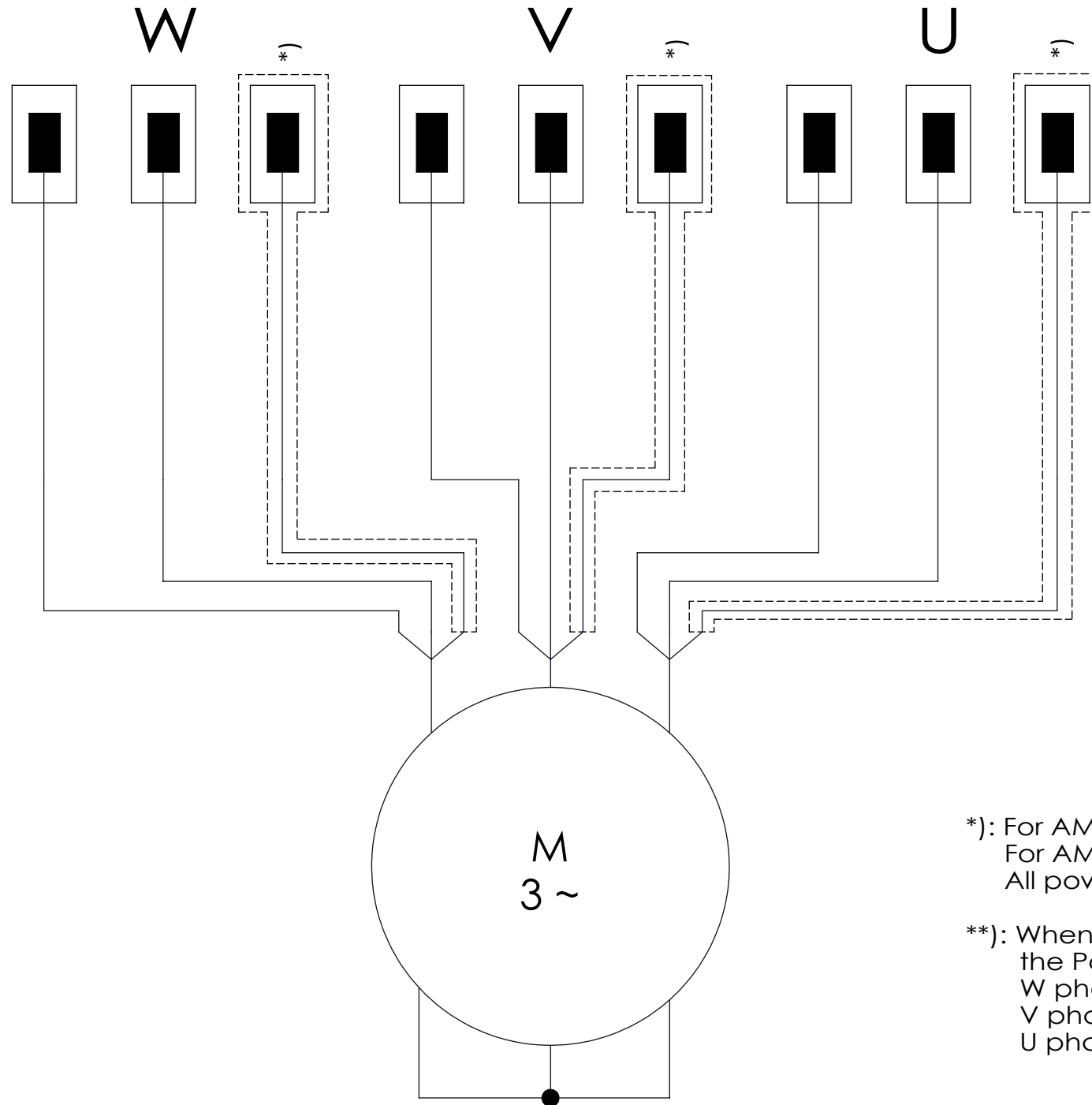
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B	Phase marking changed in page2.	RIWA	2022-02
REV.	Revision	Rev by	Year Week

Based on	Pcl 808763	Reg no 1DF	Drawing CIRCUIT DIAGRAM AMXE200	
Prepared	2021-10-21	Wang, Rike-ZiGui		
Approved	2022-01-10	Per Nordström		
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 ABB AB			3BSM600000-190	Page 1 (5)

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+MOT



**) Amphenol Powerlok connectors without HVIL: PL00X-300-10M8
Amphenol Powerlok connectors with HVIL: PL00X-301-10M8

*) For AMXE200L std, 3 connectors per phase;
For AMXE200S std, 2 connectors per phase.
All power connectors on the motor should be connected.

**) When color marked power cable connectors ordered as option(+VC854),
the Powerlok without HVIL will be changed to:
W phase: PL00X-300-10M8,
V phase: PL00V-300-10M8,
U phase: PL00U-300-10M8.

Power connection

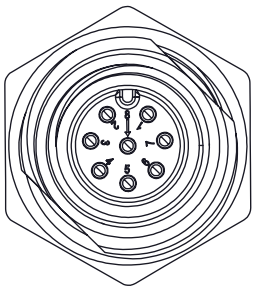
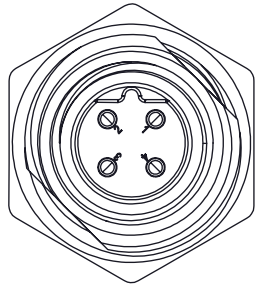
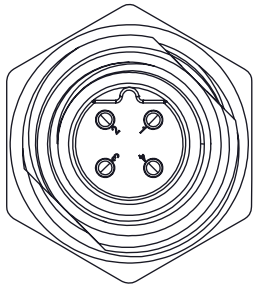
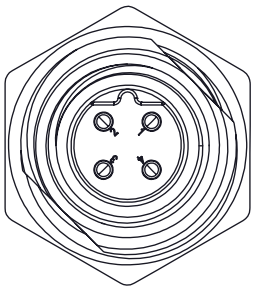
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Prepared	2021-10-21	Wang, Rike-ZiGui			
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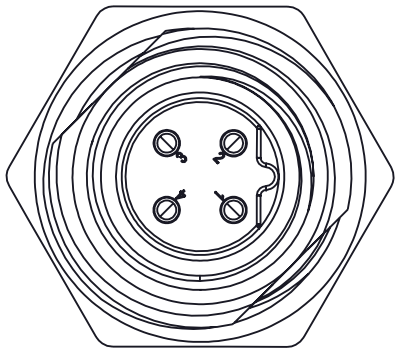
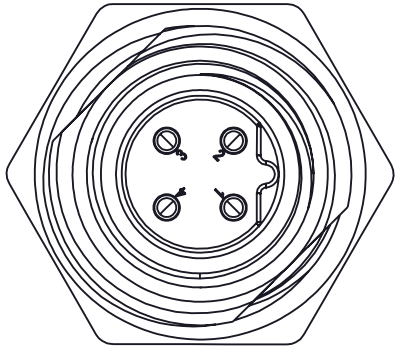
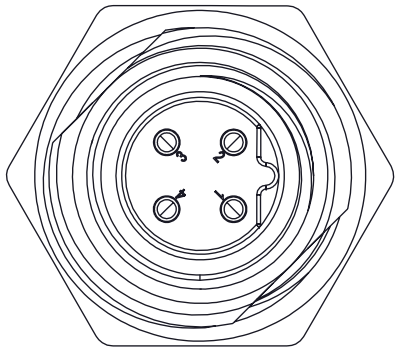
Signal connection

Signal Type	Standard/ Variant code	PIN	Description	Connector type
TEMP (Temp. sensor #1)	Standard	1	Temperature sensors 1, winding, Excitation+	Amphenol M12 B code connectors, male, 4 POS: C10-700581-4BP
		2	Temperature sensors 1, winding, Excitation-	
		3	Temperature sensors 1, winding, Measurement-	
		4	Temperature sensors 1, winding, Measurement+	
TEMP (Temp. sensor #2)	Standard	1	Temperature sensors 2, winding, Excitation+	
		2	Temperature sensors 2, winding, Excitation-	
		3	Temperature sensors 2, winding, Measurement-	
		4	Temperature sensors 2, winding, Measurement+	
IL (HVIL)	+VC847 Amphenol powerlok 3pos connector with HVIL	1	HVIL OUT	
		2	HVIL IN	
		3	Not connected	
		4	Not connected	
ENC (Resolver)	+VC848 Heavy duty resolver	1	Resolver, SIN+	Amphenol M12 A code connector, male, 8 POS: C10-700581-8AP
		2	Resolver, SIN-	
		3	Resolver, COS+	
		4	Resolver, COS-	
		5	Resolver, EXCITATION+	
		6	Resolver, EXCITATION-	
		7	Not connected	
		8	Not connected	

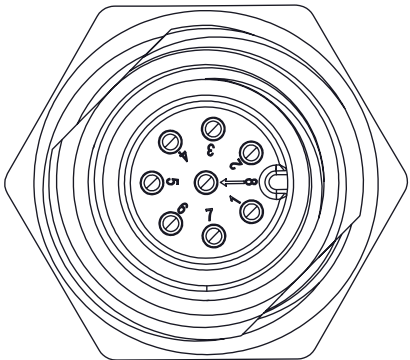


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Amphenol M12 B code connectors, male, 4 POS: C10-700581-4BP



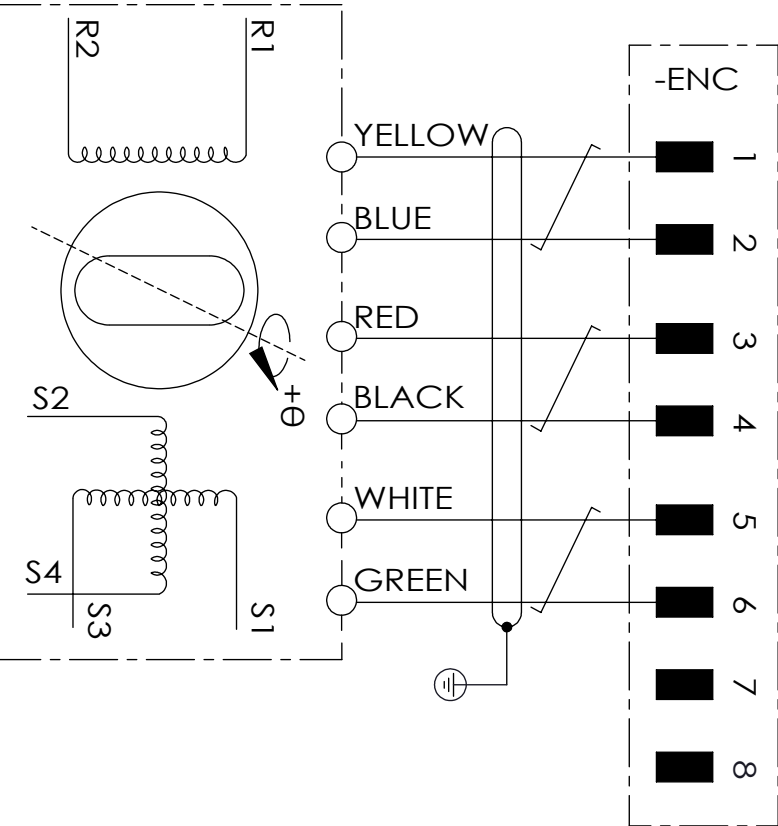
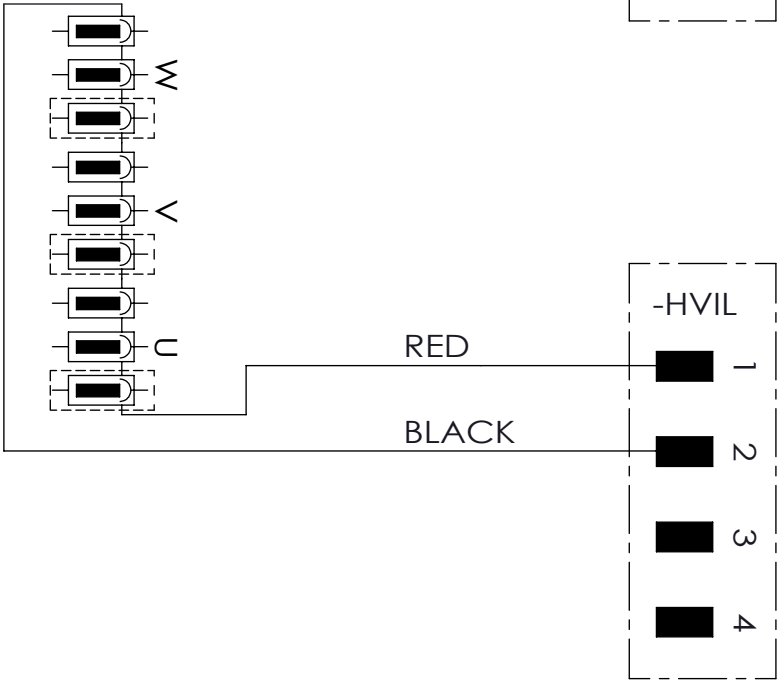
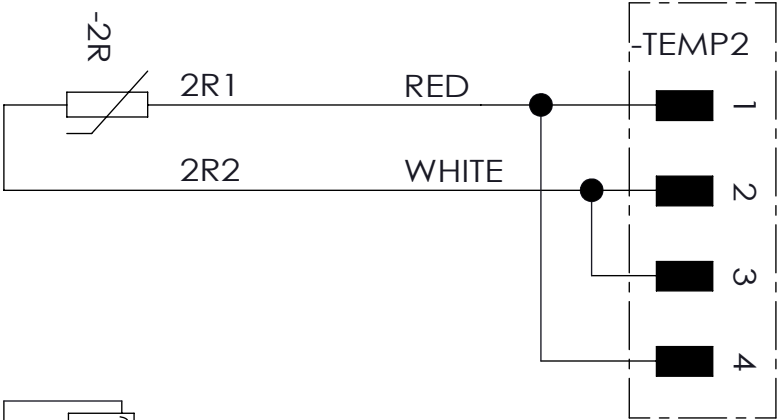
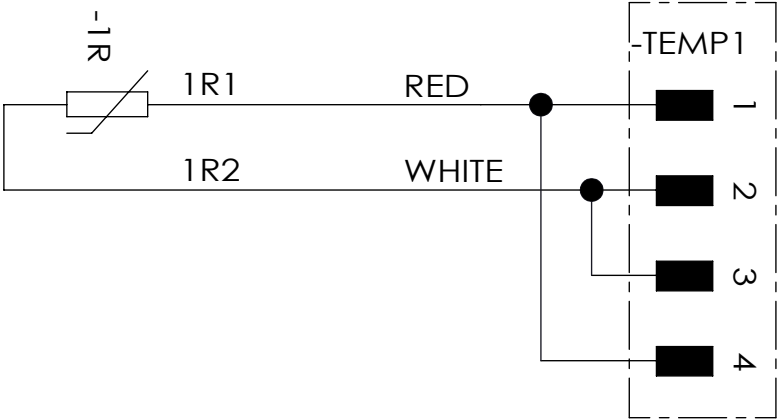
Amphenol M12 A code connector, male, 8 POS: C10-700581-8AP

Excitation+
Excitation-
Measurement-
Measurement+

Excitation+
Excitation-
Measurement-
Measurement+

HVIL out (-)
HVIL in (+)
Not connected
Not connected

Sin+
Sin-
Cos+
Cos-
Excitation+
Excitation-
Not connected
Not connected



Temperature sensors

HVIL

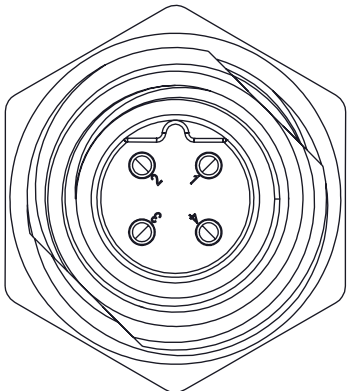
Resolver

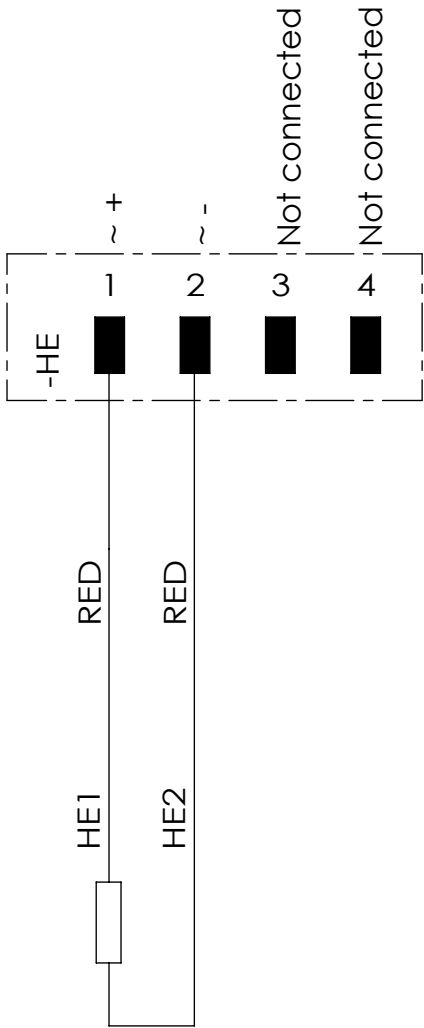
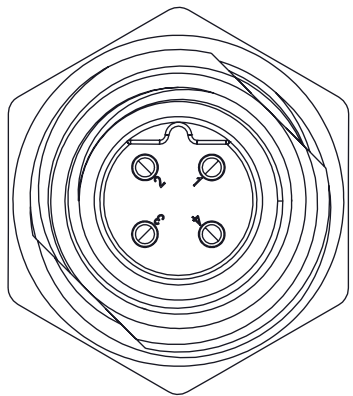
Signal connection

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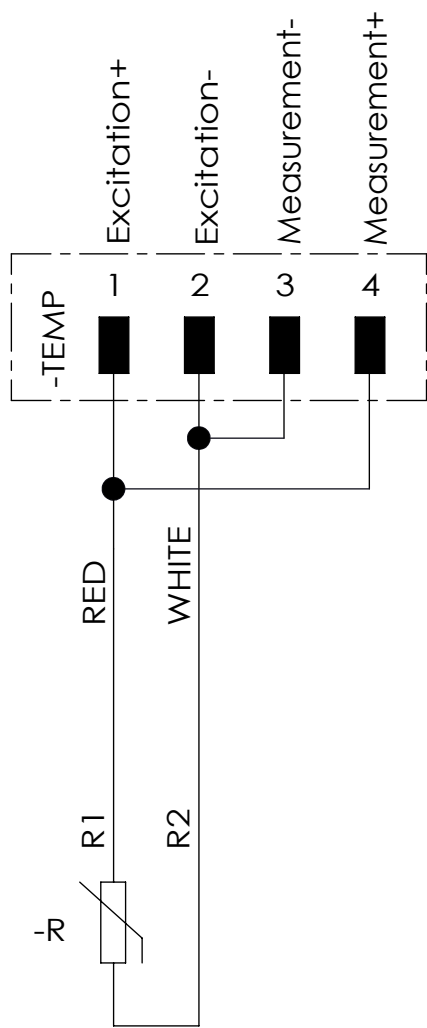
Based on	Per 808763	Req no 1DF	Drawing
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Signal Type	Standard/ Variant code	PIN	Description	Connector type		
Alternative A: Heating element				Amphenol M12 B code connector, male, 4 POS: C10-700581-4BP		
GEN (Heating element)	+VC450 Heating element, 100-120 V; Or +VC451 Heating element, 200- 240 V	1	Heating element, ~ +			
		2	Heating element, ~ -			
		3	Not connected			
		4	Not connected			
Alternative B: Temperature sensor						
GEN (Temp. sensor)	+VC853 Pt100 2-wire in bearing, connection	1	Temperature sensors, bearing, Excitation+			
		2	Temperature sensors, bearing, Excitation-			
		3	Temperature sensors, bearing, Measurement-			
		4	Temperature sensors, bearing, Measurement+			



Alternative A: Heating element



Alternative B: Temperature sensor

HE/TEMP connection

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