

Wall chart

Motiflex e180



Memory unit



The memory unit stores firmware, parameters and Mint programs.
CAUTION!
Do not remove while the drive is powered.



X10 - Motor thermistor



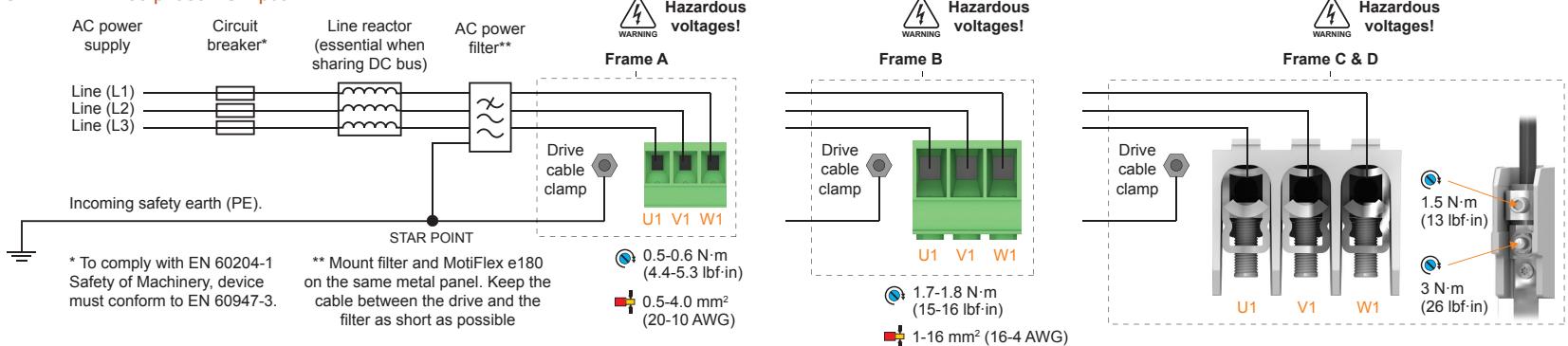
Note: Connector X10 is supplied with wiring that allows the drive to operate without using the motor thermistor function.

X13 FB-01 Encoder + Halls

Pin	1	2	3	4	5	6	7	8
CHA+	CHA+	CHA-	CHA-	CHB+	CHB-	CHB-	CHZ+	CHZ-
CHB+	CHB+	CHB-	CHB-	CHZ+	CHZ-	CHZ-	CHW+	CHW-
CHZ+	CHZ+	CHZ-	CHZ-	CHW+	CHW-	CHW-	HALL U-	HALL W-
(NC)	(NC)	(NC)	(NC)	HALL U+	HALL W+	HALL W+	HALL V-	HALL V+

Note: Drive can also operate without Halls, or with Halls only.
Pin 12 provides a +5 V, 200 mA supply for feedback devices that require power.

U1 V1 W1 Three phase AC input



X1 Relay (DO4)

1	Relay NC
2	Relay COM
3	Relay NO
4	Relay NC

0.5-0.6 N·m (4.4-5.3 lbf-in)
0.5-2.5 mm² (20-12 AWG)

X2 Safe Torque Off (STO)

1	24 V out
2	SGND
3	STO1
4	STO2

0.5-0.6 N·m (4.4-5.3 lbf-in)
0.5-2.5 mm² (20-12 AWG)

Note: Connector X2 is supplied with wiring that allows the drive to operate without using the STO function.

X3 Fast digital inputs

1	DI1-
2	DI1+
3	Shield
4	DI2-
5	DI2+
6	Shield

X4 Digital inputs

1	DI0
2	DI3
3	DI4
4	CREF0

X5 Digital inputs

1	DI5
2	DI6
3	DI7
4	CREF1

X6 Digital outputs

1	USR V+
2	DO0
3	DO1
4	DO2
5	DO3

0.25 N·m (2.2 lbf-in)
0.5-1.5 mm² (20-14 AWG)

X7 Analog inputs

1	AI0+
2	AI0-
3	AGND
4	AI1+
5	AI1-
6	Shield

1	A00
2	GND
3	Shield

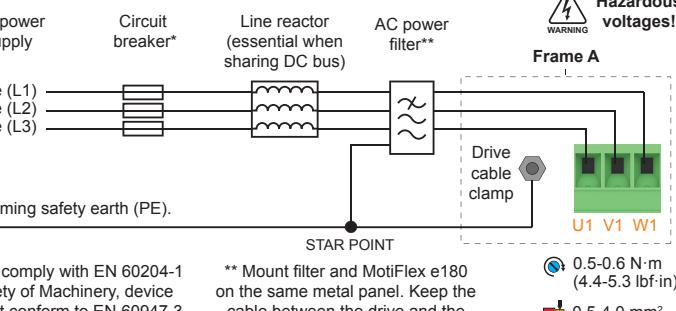
0.25 N·m (2.2 lbf-in)
0.5-1.5 mm² (20-14 AWG)

X9 24 V in

1	24 V
2	GND

0.5-0.6 N·m (4.4-5.3 lbf-in)
0.5-2.5 mm² (20-12 AWG)

U2 V2 W2 Motor output



X13 FB-01 Encoder + Halls

Pin 1	1	CHA+	9	CHA-
2	CHB+	10	CHB-	
3	CHZ+	11	CHZ-	
4	(NC)	12	+5 V OUT	
5	HALL U-	13	DGND	
6	HALL U+	14	HALL W-	
7	HALL V-	15	HALL W+	
8	HALL V+			

Note: Drive can also operate without Halls, or with Halls only.
Pin 12 provides a +5 V, 200 mA supply for feedback devices that require power.

X13 FB-02 Serial + Sin/Cos

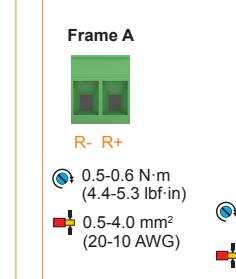
Pin 1	BiSS, SSI, EnDat 2.2	EnDat 2.1	SinCos	Smart Abs
1	DATA+	1 DATA+	1 (NC)	1 DATA+
2	CLOCK+	2 CLOCK+	2 (NC)	2 (NC)
3	10	10	3 (NC)	10 (NC)
4	CLOCK-	4	3 (NC)	11 (NC)
5	11	11	4 (NC)	11 (NC)
6	(NC)	12	5 (NC)	12 (NC)
7	13	12	6 (NC)	13 DGND
8	DGND	13	14 (NC)	13 DGND
9	14	13	15 (NC)	14 (NC)
10	(NC)	14	16 (NC)	15 (NC)
11	15	15	17 (NC)	
12	+5 V OUT*	16	18 (NC)	
13		17	19 (NC)	
14		18	20 (NC)	
15				
16				
17				
18				
19				
20				

Encoder supply output

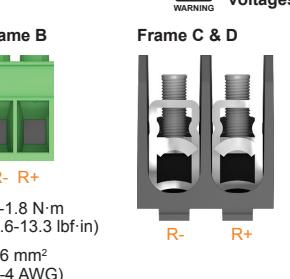


* Pin 12 provides a 5.5 V or 8 V, 250 mA supply for feedback devices that require power. Move the jumper to select the required output voltage.

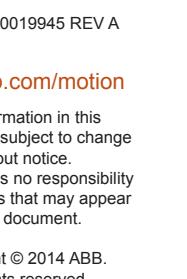
R- R+ Regeneration resistor output



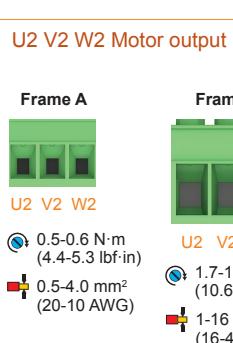
X13 FB-03 Resolver



X13 FB-04 DSL



U2 V2 W2 Motor output



Hazardous voltages!