

Notes

- (1) Drive frames 0-4 temperature rating is for NEMA/UL Type Open. The adhesive top label must be removed to operate drive at this temperature. Frames 5 & 6 do not have a top label.
- (2) The power source to Common Bus inverters must be derived from AC voltages 600V or less, as defined in NFPA70; Art 430-18 (NEC). Battery supplies or MG sets are not included. The following devices were validated to break current of the derived power DC Bus.
Disconnects: Allen-Bradley Bulletin No. 1494, 30-400A; 194, 30-400A; or ABB OESA, 600 & 800A; OESL, all sizes.
Fuses: Bussmann Type JKS, all sizes; Type 170M, Case Sizes 1, 2 and 3, or Ferraz Shawmut Type HSJ, all sizes. For any other devices, please contact the factory.
- (3) Drives have dual current ratings; one for normal duty applications, and one for heavy duty applications. The drive may be operated at either rating.
- (4) UL Type 12/IP54 (flange mount) heat sink ambient temperature rating is 40° C/ambient of unprotected drive portion (inside enclosure) is 55° C. The ambient temperature for the UL Type 12/IP54 stand-alone drives is 40° C.
- (5) Also applies to "P" voltage class.
- (6) Also applies to "J" voltage class.
- (7) Must remove top label and vent plate, drive enclosure rating will be IP00, NEMA/UL Type Open.

Maximum Motor Cable Lengths

In the following tables, A "●" in any of the latter columns will indicate that this drive rating can be used with an Allen-Bradley Terminator (1204-TFA1/1204-TFB2) and/or Eliminator (1204-RWR2/1204-RWC-17).

For the Terminator, the maximum cable length is 182.9 meters (600 feet) for 400/480/600V drives (not 690V). The PWM frequency must be 2 kHz. The 1204-TFA1 can be used only on low HP (5 HP & below), while the 1204-TFB2 can be used from 2-800 HP.

Eliminator (all motor insulation classes):

- (1) 1204-RWR2-09
2kHz: 182.9m (600 ft.) at 400/480V and 121.9m (400 ft.) at 600V. 4 kHz: 91.4m (300 ft.) at 400/480V and 61.0m (200 ft.) at 600V.
- (2) 1204-RWC-17
2 kHz: 365.8m (1200 ft.) at 400/480/600V. 4 kHz: 243.8m (800 ft.) at 400/480V and 121.9m (400 ft.) at 600V.

For both devices, power dissipation in the damping resistor limits maximum cable length. For further information, refer to the following;

- Eliminator 1204-RWR2, see publication 1204-5.1
- Eliminator 1204-RWC, see publication 1204-IN001
- Terminator 1204-TFxx, see publication 1204-IN002

400V Shielded/Unshielded Cable - Meters (Feet)

Drive Frame	Rating		No Solution				Reactor Only				Reactor + Damping Resistor				Resistor		Used with ...			
	kW	kHz	1000V	1200V	1488V	1600V	1000V	1200V	1488V	1600V	1000V	1200V	1488V	1600V	Ohms	Watts	TFA1	TFB2	RWR2	RWC
0	0.37	2	7.6 (25)	53.3 (175)	53.3 (175)	53.3 (175)	91.4 (300)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	50	25	●		●	●
		4	7.6 (25)	53.3 (175)	53.3 (175)	53.3 (175)	18.3 (60)	91.4 (300)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	50	50			●	●
	0.75	2	7.6 (25)	83.8 (275)	83.8 (275)	83.8 (275)	91.4 (300)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	50	25	●		●	●
		4	7.6 (25)	76.2 (250)	76.2 (250)	76.2 (250)	18.3 (60)	91.4 (300)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	50	50			●	●
	1.5	2	7.6 (25)	83.8 (275)	83.8 (275)	83.8 (275)	91.4 (300)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	50	25	●	●	●	●
		4	7.6 (25)	76.2 (250)	76.2 (250)	76.2 (250)	18.3 (60)	91.4 (300)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	50	50			●	●
	2.2	2	7.6 (25)	137.2 (450)	182.9 (600)	182.9 (600)	91.4 (300)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	50	25	●	●	●	●
		4	7.6 (25)	91.4 (300)	152.4 (500)	182.9 (600)	18.3 (60)	91.4 (300)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	50	50			●	●
	4	2	7.6 (25)	137.2 (450)	243.8 (800)	243.8 (800)	91.4 (300)	304.8 (1000)	304.8 (1000)	304.8 (1000)	304.8 (1000)	304.8 (1000)	304.8 (1000)	304.8 (1000)	50	60		●		●
		4	7.6 (25)	91.4 (300)	152.4 (500)	213.4 (700)	18.3 (60)	91.4 (300)	243.8 (800)	243.8 (800)	182.9 (600)	243.8 (800)	243.8 (800)	243.8 (800)	50	120				●
	5.5	2	7.6 (25)	137.2 (450)	304.8 (1000)	304.8 (1000)	91.4 (300)	304.8 (1000)	304.8 (1000)	304.8 (1000)	304.8 (1000)	304.8 (1000)	304.8 (1000)	304.8 (1000)	50	60		●		●
		4	7.6 (25)	91.4 (300)	152.4 (500)	213.4 (700)	18.3 (60)	91.4 (300)	304.8 (1000)	304.8 (1000)	182.9 (600)	304.8 (1000)	304.8 (1000)	304.8 (1000)	50	120				●

Drive Frame	Rating		No Solution				Reactor Only				Reactor + Damping Resistor				Resistor		Used with ...			
	kW	kHz	1000V	1200V	1488V	1600V	1000V	1200V	1488V	1600V	1000V	1200V	1488V	1600V	Ohms	Watts	TFA1	TFB2	RWR2	RWC
			(25)	(450)	(1200)	(1200)	(300)	(1200)	(1200)	(1200)	(1200)	(1200)	(1200)	(1200)						
1	7.5	2	7.6 (25)	137.2 (450)	365.8 (1200)	365.8 (1200)	91.4 (300)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●		●
		4	7.6 (25)	91.4 (300)	152.4 (500)	213.4 (700)	18.3 (60)	91.4 (300)	365.8 (1200)	365.8 (1200)	182.9 (600)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120				●
	11	2	7.6 (25)	137.2 (450)	365.8 (1200)	365.8 (1200)	91.4 (300)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●		
		4	7.6 (25)	91.4 (300)	152.4 (500)	213.4 (700)	18.3 (60)	91.4 (300)	365.8 (1200)	365.8 (1200)	182.9 (600)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120				
2	15	2	7.6 (25)	137.2 (450)	365.8 (1200)	365.8 (1200)	91.4 (300)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●		
		4	7.6 (25)	91.4 (300)	152.4 (500)	213.4 (700)	18.3 (60)	91.4 (300)	365.8 (1200)	365.8 (1200)	182.9 (600)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120				
	18.5	2	7.6 (25)	137.2 (450)	365.8 (1200)	365.8 (1200)	91.4 (300)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●		
		4	7.6 (25)	91.4 (300)	152.4 (500)	213.4 (700)	18.3 (60)	91.4 (300)	365.8 (1200)	365.8 (1200)	182.9 (600)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120				
3	22	2	7.6 (25)	137.2 (450)	365.8 (1200)	365.8 (1200)	91.4 (300)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●		
		4	7.6 (25)	91.4 (300)	152.4 (500)	213.4 (700)	18.3 (60)	91.4 (300)	365.8 (1200)	365.8 (1200)	182.9 (600)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120				
	30	2	7.6 (25)	137.2 (450)	304.8 (1000)	365.8 (1200)	91.4 (300)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●		
		4	7.6 (25)	91.4 (300)	152.4 (500)	213.4 (700)	18.3 (60)	91.4 (300)	365.8 (1200)	365.8 (1200)	182.9 (600)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120				
	37	2	12.2 (40)	137.2 (450)	304.8 (1000)	365.8 (1200)	91.4 (300)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●		
		4	12.2 (40)	91.4 (300)	152.4 (500)	213.4 (700)	18.3 (60)	91.4 (300)	365.8 (1200)	365.8 (1200)	182.9 (600)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120				
4	45	2	12.2 (40)	137.2 (450)	304.8 (1000)	365.8 (1200)	91.4 (300)	304.8 (1000)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●		
		4	12.2 (40)	91.4 (300)	152.4 (500)	213.4 (700)	24.4 (80)	91.4 (300)	365.8 (1200)	365.8 (1200)	152.4 (500)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120				
5	55	2	12.2 (40)	137.2 (450)	304.8 (1000)	365.8 (1200)	91.4 (300)	274.3 (900)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●		
		4	12.2 (40)	91.4 (300)	152.4 (500)	213.4 (700)	24.4 (80)	91.4 (300)	365.8 (1200)	365.8 (1200)	152.4 (500)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120				
	75	2	18.3 (60)	137.2 (450)	304.8 (1000)	365.8 (1200)	91.4 (300)	213.4 (700)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	75		●		
		4	18.3 (60)	91.4 (300)	152.4 (500)	213.4 (700)	30.5 (100)	91.4 (300)	304.8 (1000)	365.8 (1200)	152.4 (500)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	150				
6	90	2	18.3 (60)	137.2 (450)	304.8 (1000)	365.8 (1200)	91.4 (300)	213.4 (700)	365.8 (1200)	365.8 (1200)	304.8 (1000)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	75		●		
		4	18.3 (60)	91.4 (300)	152.4 (500)	213.4 (700)	30.5 (100)	91.4 (300)	365.8 (1200)	365.8 (1200)	121.9 (400)	243.8 (800)	365.8 (1200)	365.8 (1200)	50	150				
	110	2	24.4 (80)	137.2 (450)	274.3 (900)	365.8 (1200)	76.2 (250)	198.1 (650)	365.8 (1200)	365.8 (1200)	274.3 (900)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	75		●		
		4	24.4 (80)	91.4 (300)	152.4 (500)	213.4 (700)	36.6 (120)	91.4 (300)	365.8 (1200)	365.8 (1200)	121.9 (400)	213.4 (700)	365.8 (1200)	365.8 (1200)	50	150				
	132	2	24.4 (80)	137.2 (450)	274.3 (900)	365.8 (1200)	61.0 (200)	182.9 (600)	365.8 (1200)	365.8 (1200)	243.8 (800)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	75		●		
		4	24.4 (80)	91.4 (300)	152.4 (500)	213.4 (700)	36.6 (120)	91.4 (300)	365.8 (1200)	365.8 (1200)	91.4 (300)	182.9 (600)	365.8 (1200)	365.8 (1200)	50	150				

480V Shielded/Unshielded Cable - Meters (Feet)

Drive Frame	Rating		No Solution				Reactor Only				Reactor + Damping Resistor				Resistor		Used with ...				
	HP	kHz	1000V	1200V	1488V	1600V	1000V	1200V	1488V	1600V	1000V	1200V	1488V	1600V	Ohms	Watts	TFA1	TFB2	RWR2	RWC	
0	0.5	2	7.6 (25)	12.2 (40)	53.3 (175)	53.3 (175)	7.6 (25)	91.4 (300)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	50	25	●		●	●	
		4	7.6 (25)	12.2 (40)	53.3 (175)	53.3 (175)	7.6 (25)	12.2 (40)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	50	50			●	●	
	1	2	7.6 (25)	12.2 (40)	83.8 (275)	83.8 (275)	7.6 (25)	91.4 (300)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	50	25	●		●	●	
		4	7.6 (25)	12.2 (40)	76.2 (250)	76.2 (250)	7.6 (25)	12.2 (40)	121.9 (400)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	50	50			●	●	
	2	2	7.6 (25)	12.2 (40)	83.8 (275)	83.8 (275)	7.6 (25)	91.4 (300)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	50	25	●	●	●	●	
		4	7.6 (25)	12.2 (40)	76.2 (250)	76.2 (250)	7.6 (25)	12.2 (40)	121.9 (400)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	50	50			●	●	
	3	2	7.6 (25)	12.2 (40)	129.5 (425)	129.5 (425)	7.6 (25)	91.4 (300)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	50	25	●	●	●	●	
		4	7.6 (25)	12.2 (40)	121.9 (400)	121.9 (400)	7.6 (25)	12.2 (40)	121.9 (400)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	182.9 (600)	50	50			●	●	
	5	2	7.6 (25)	12.2 (40)	137.2 (450)	182.9 (600)	7.6 (25)	91.4 (300)	243.8 (800)	243.8 (800)	182.9 (600)	243.8 (800)	243.8 (800)	243.8 (800)	50	60	●	●	●	●	
			4	7.6 (25)	12.2 (40)	121.9 (400)	182.9 (600)	7.6 (25)	12.2 (40)	121.9 (400)	243.8 (800)	182.9 (600)	243.8 (800)	243.8 (800)	243.8 (800)	50	120			●	●
		7.5	2	7.6 (25)	12.2 (40)	137.2 (450)	182.9 (600)	7.6 (25)	91.4 (300)	304.8 (1000)	304.8 (1000)	182.9 (600)	304.8 (1000)	304.8 (1000)	304.8 (1000)	50	60		●		●
			4	7.6 (25)	12.2 (40)	121.9 (400)	182.9 (600)	7.6 (25)	12.2 (40)	121.9 (400)	304.8 (1000)	182.9 (600)	304.8 (1000)	304.8 (1000)	304.8 (1000)	50	120				●
1	10	2	7.6 (25)	12.2 (40)	137.2 (450)	182.9 (600)	7.6 (25)	91.4 (300)	365.8 (1200)	365.8 (1200)	182.9 (600)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●		●	
		4	7.6 (25)	12.2 (40)	121.9 (400)	182.9 (600)	7.6 (25)	12.2 (40)	121.9 (400)	304.8 (1000)	182.9 (600)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120				●	
	15	2	7.6 (25)	12.2 (40)	137.2 (450)	182.9 (600)	7.6 (25)	91.4 (300)	365.8 (1200)	365.8 (1200)	182.9 (600)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●			
		4	7.6 (25)	12.2 (40)	121.9 (400)	182.9 (600)	7.6 (25)	12.2 (40)	121.9 (400)	304.8 (1000)	182.9 (600)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120					
2	20	2	7.6 (25)	12.2 (40)	137.2 (450)	182.9 (600)	7.6 (25)	91.4 (300)	365.8 (1200)	365.8 (1200)	182.9 (600)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●			
		4	7.6 (25)	12.2 (40)	121.9 (400)	182.9 (600)	7.6 (25)	12.2 (40)	121.9 (400)	304.8 (1000)	182.9 (600)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120					
	25	2	7.6 (25)	12.2 (40)	137.2 (450)	182.9 (600)	7.6 (25)	76.2 (250)	365.8 (1200)	365.8 (1200)	182.9 (600)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●			
		4	7.6 (25)	12.2 (40)	121.9 (400)	182.9 (600)	7.6 (25)	12.2 (40)	121.9 (400)	274.3 (900)	152.4 (500)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120					
3	30	2	7.6 (25)	12.2 (40)	137.2 (450)	182.9 (600)	7.6 (25)	76.2 (250)	365.8 (1200)	365.8 (1200)	182.9 (600)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●			
		4	7.6 (25)	12.2 (40)	121.9 (400)	182.9 (600)	7.6 (25)	12.2 (40)	121.9 (400)	243.8 (800)	152.4 (500)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	120					
	40	2	7.6 (25)	12.2 (40)	137.2 (450)	182.9 (600)	7.6 (25)	76.2 (250)	365.8 (1200)	365.8 (1200)	152.4 (500)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●			
		4	7.6 (25)	12.2 (40)	106.7 (350)	152.4 (500)	7.6 (25)	12.2 (40)	106.7 (350)	228.6 (750)	121.9 (400)	243.8 (800)	365.8 (1200)	365.8 (1200)	50	120					
	50	2	12.2 (40)	18.3 (60)	137.2 (450)	182.9 (600)	12.2 (40)	61.0 (200)	304.8 (1000)	365.8 (1200)	152.4 (500)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●			
		4	7.6 (25)	12.2 (40)	91.4 (300)	152.4 (500)	12.2 (40)	18.3 (60)	106.7 (350)	228.6 (750)	91.4 (300)	243.8 (800)	365.8 (1200)	365.8 (1200)	50	120					
4	60	2	12.2 (40)	18.3 (60)	137.2 (450)	182.9 (600)	12.2 (40)	61.0 (200)	304.8 (1000)	365.8 (1200)	137.2 (450)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●			
		4	7.6 (25)	12.2 (40)	91.4 (300)	152.4 (500)	12.2 (40)	24.4 (80)	91.4 (300)	228.6 (750)	76.2 (250)	213.4 (700)	365.8 (1200)	365.8 (1200)	50	120					
5	75	2	12.2 (40)	18.3 (60)	137.2 (450)	182.9 (600)	12.2 (40)	61.0 (200)	274.3 (900)	365.8 (1200)	137.2 (450)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	60		●			
		4	7.6 (25)	12.2 (40)	91.4 (300)	152.4 (500)	12.2 (40)	24.4 (80)	91.4 (300)	182.9 (600)	76.2 (250)	182.9 (600)	365.8 (1200)	365.8 (1200)	50	120					
	100	2	12.2 (40)	24.4 (80)	137.2 (450)	182.9 (600)	12.2 (40)	61.0 (200)	243.8 (800)	365.8 (1200)	137.2 (450)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	75		●			
		4	7.6 (25)	18.3 (60)	91.4 (300)	152.4 (500)	12.2 (40)	30.5 (100)	91.4 (300)	152.4 (500)	61.0 (200)	137.2 (450)	304.8 (1000)	304.8 (1000)	50	150					

Drive Frame	Rating		No Solution				Reactor Only				Reactor + Damping Resistor				Resistor		Used with ...			
	HP	kHz	1000V	1200V	1488V	1600V	1000V	1200V	1488V	1600V	1000V	1200V	1488V	1600V	Ohms	Watts	TFA1	TFB2	RWR2	RWC
			(40)	(80)	(450)	(600)	(40)	(200)	(800)	(1200)	(400)	(1000)	(1200)	(1200)						
6	125	2	12.2	24.4	137.2	182.9	12.2	61.0	243.8	365.8	121.9	304.8	365.8	365.8	50	75		●		
		4	7.6	18.3	91.4	152.4	12.2	30.5	91.4	152.4	61.0	106.7	243.8	274.3	50	150				
	150	2	12.2	24.4	137.2	182.9	12.2	61.0	243.8	304.8	91.4	274.3	365.8	365.8	50	75		●		
		4	7.6	24.4	91.4	152.4	12.2	30.5	91.4	152.4	45.7	76.2	243.8	274.3	50	150				
	200	2	12.2	30.5	137.2	182.9	12.2	61.0	243.8	304.8	76.2	274.3	365.8	365.8	50	75		●		
		4	7.6	24.4	91.4	121.9	12.2	36.6	91.4	121.9	45.7	76.2	213.4	274.3	50	150				
			(25)	(80)	(300)	(400)	(40)	(120)	(300)	(400)	(150)	(250)	(700)	(900)						

600V Shielded/Unshielded Cable - Meters (Feet)

Drive Frame	Rating		No Solution		Reactor Only		Reactor + Damping Resistor		Resistor		Used with ...			
	HP	kHz	1488V	1850V	1488V	1850V	1488V	1850V	Ohms	Watts	TFA1	TFB2	RWR2	RWC
			(140)	(400)	(400)	(400)	(400)	(400)						
0	1	2	42.7 (140)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	121.9 (400)	50	40	●		●	●
		4	30.5 (100)	121.9 (400)	30.5 (100)	121.9 (400)	121.9 (400)	121.9 (400)	50	80			●	●
	2	2	42.7 (140)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	152.4 (500)	50	40	●		●	●
		4	30.5 (100)	137.2 (450)	30.5 (100)	152.4 (500)	152.4 (500)	152.4 (500)	50	80			●	●
	3	2	42.7 (140)	152.4 (500)	152.4 (500)	182.9 (600)	182.9 (600)	182.9 (600)	50	40	●		●	●
		4	30.5 (100)	137.2 (450)	30.5 (100)	152.4 (500)	182.9 (600)	182.9 (600)	50	80			●	●
	5	2	42.7 (140)	152.4 (500)	152.4 (500)	243.8 (800)	243.8 (800)	243.8 (800)	50	85	●		●	●
		4	30.5 (100)	137.2 (450)	30.5 (100)	152.4 (500)	243.8 (800)	243.8 (800)	50	170			●	●
	7.5	2	42.7 (140)	152.4 (500)	152.4 (500)	304.8 (1000)	304.8 (1000)	304.8 (1000)	50	85				●
		4	30.5 (100)	137.2 (450)	30.5 (100)	152.4 (500)	304.8 (1000)	304.8 (1000)	50	170				●
	1	10	42.7 (140)	182.9 (600)	152.4 (500)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	85				●
		4	30.5 (100)	137.2 (450)	30.5 (100)	152.4 (500)	304.8 (1000)	365.8 (1200)	50	170				●
1	15	2	42.7 (140)	182.9 (600)	152.4 (500)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	85				
		4	30.5 (100)	137.2 (450)	30.5 (100)	152.4 (500)	304.8 (1000)	365.8 (1200)	50	170				
	2	20	42.7 (140)	182.9 (600)	152.4 (500)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	85		●		
		4	30.5 (100)	137.2 (450)	30.5 (100)	152.4 (500)	304.8 (1000)	365.8 (1200)	50	170				
2	25	2	42.7 (140)	182.9 (600)	152.4 (500)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	85		●		
		4	30.5 (100)	137.2 (450)	30.5 (100)	152.4 (500)	304.8 (1000)	365.8 (1200)	50	170				
	3	30	42.7 (140)	182.9 (600)	152.4 (500)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	85		●		
		4	30.5 (100)	137.2 (450)	36.6 (120)	152.4 (500)	304.8 (1000)	365.8 (1200)	50	170				
3	40	2	42.7 (140)	182.9 (600)	152.4 (500)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	85		●		
		4	30.5 (100)	137.2 (450)	36.6 (120)	152.4 (500)	304.8 (1000)	365.8 (1200)	50	170				
	50	2	42.7 (140)	182.9 (600)	152.4 (500)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	85		●		
		4	36.6 (120)	137.2 (450)	45.7 (150)	152.4 (500)	304.8 (1000)	365.8 (1200)	50	170				
4	60	2	42.7 (140)	182.9 (600)	152.4 (500)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	85		●		
		4	36.6 (120)	137.2 (450)	45.7 (150)	152.4 (500)	274.3 (900)	365.8 (1200)	50	170				
5	75	2	42.7 (140)	182.9 (600)	152.4 (500)	365.8 (1200)	365.8 (1200)	365.8 (1200)	50	85		●		
		4	36.6 (120)	137.2 (450)	45.7 (150)	152.4 (500)	274.3 (900)	365.8 (1200)	50	170				
	100	2	42.7 (140)	182.9 (600)	152.4 (500)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	85		●		
		4	42.7 (140)	137.2 (450)	45.7 (150)	152.4 (500)	274.3 (900)	365.8 (1200)	50	170				
6	125	2	42.7 (140)	182.9 (600)	121.9 (400)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	105		●		
		4	42.7 (140)	137.2 (450)	45.7 (150)	152.4 (500)	228.6 (750)	365.8 (1200)	50	210				
	150	2	42.7 (140)	182.9 (600)	121.9 (400)	304.8 (1000)	365.8 (1200)	365.8 (1200)	50	105		●		
		4	42.7 (140)	137.2 (450)	45.7 (150)	152.4 (500)	198.1 (650)	365.8 (1200)	50	210				

690V Shielded/Unshielded Cable - Meters (Feet)

Drive Frame	Rating		No Solution		Reactor Only		Reactor + Damping Resistor		Resistor		Used with ...			
	kW	kHz	1850V	2000V	1850V	2000V	1850V	2000V	Ohms	Watts	TFA1	TFB2	RWR2	RWC
4	45	2	30.5 (100)	106.9 (350)	91.4 (300)	152.4 (500)	365.8 (1200)	365.8 (1200)	50	115				
		4	24.4 (80)	76.2 (250)	36.6 (120)	121.9 (400)	213.4 (700)	274.3 (900)	50	230				
	55	2	30.5 (100)	106.9 (350)	91.4 (300)	152.4 (500)	365.8 (1200)	365.8 (1200)	50	115				
		4	24.4 (80)	76.2 (250)	36.6 (120)	106.9 (350)	213.4 (700)	274.3 (900)	50	230				
5	75	2	30.5 (100)	106.9 (350)	91.4 (300)	152.4 (500)	365.8 (1200)	365.8 (1200)	50	115				
		4	30.5 (100)	76.2 (250)	36.6 (120)	106.9 (350)	213.4 (700)	274.3 (900)	50	230				
	90	2	30.5 (100)	106.9 (350)	91.4 (300)	152.4 (500)	365.8 (1200)	365.8 (1200)	50	125				
		4	30.5 (100)	76.2 (250)	36.6 (120)	106.9 (350)	182.9 (600)	274.3 (900)	50	250				
6	110	2	30.5 (100)	106.9 (350)	91.4 (300)	152.4 (500)	365.8 (1200)	365.8 (1200)	50	125				
		4	36.6 (120)	76.2 (250)	36.6 (120)	99.1 (325)	152.4 (500)	274.3 (900)	50	250				
	132	2	30.5 (100)	106.9 (350)	91.4 (300)	152.4 (500)	365.8 (1200)	365.8 (1200)	50	125				
		4	36.6 (120)	76.2 (250)	36.6 (120)	83.8 (275)	152.4 (500)	274.3 (900)	50	250				

Mounting

Operating Temperatures

PowerFlex 700 drives are designed to operate at 0° to 40° C ambient. To operate the drive in installations between 41° and 50° C, see the information below and refer to pages 25-28 for exceptions.

Acceptable Surrounding Air Temperature & Required Actions

Enclosure Rating	Temperature Range	Drive
IP20, NEMA/UL Type 1 (with Top Label) ⁽¹⁾	0-40° C	Frames 0-4, All Ratings
	0-50° C	Frames 5-6, Most Ratings ⁽²⁾
IP20, NEMA/UL Type Open (Top Label Removed) ⁽¹⁾	0-50° C	Most Ratings ⁽²⁾
	0-45° C	20BC072 Only
IP00, NEMA/UL Type Open (Top Label & Vent Plate Removed)	0-50° C	20BC072 Only ⁽³⁾
Flange Mount		
Front - IP20, NEMA/UL Type Open	0-40° C Back (External)	Frames 5-6
Back/Heat Sink - IP54, NEMA/UL Type 12	0-55° C Front (Inside Enclosure)	
Stand-alone/Wall Mount - IP54, NEMA/UL Type 12	0-40° C	Frames 5-6

(1) Removing the adhesive top label from the drive changes the NEMA/UL enclosure rating from Type 1 to Open. Frames 5 and 6 do not have a top label.

(2) Refer to pages 25-28 for exceptions.

(3) To remove vent plate (see page 39 for location), lift top edge of plate from the chassis. Rotate the plate out from the back plate.

