

# Fuses and Circuit Breakers

Catalog No. <sup>(1)</sup>		Output Ratings				Input Ratings				Branch Circuit Protection			Min. Enclosure Volume (in. <sup>3</sup> )	IP 20 Open Type Watts Loss
PowerFlex 523	PowerFlex 525	Normal Duty		Heavy Duty		Amps	Voltage Range	kVA	Max Amps <sup>(2)</sup>	Fuse Ratings Min/Max	Contactors	140M Motor Protectors (3) (4) (5)		
		HP	kW	HP	kW									
<b>100...120V AC (-15%, +10%) – 1-Phase Input, 0...230V 3-Phase Output</b>														
25A-V1P6N104	–	0.25	0.2	0.25	0.2	1.6	85...132	0.8	6.4	10/16	100-C09	140M-C2E-B63	–	20.0
25A-V2P5N104	25B-V2P5N104	0.5	0.4	0.5	0.4	2.5	85...132	1.3	9.6	16/20	100-C12	140M-C2E-C10	–	27.0
25A-V4P8N104	25B-V4P8N104	1.0	0.75	1.0	0.75	4.8	85...132	2.5	19.2	25/40	100-C23	140M-D8E-C20	–	53.0
25A-V6P0N104	25B-V6P0N104	1.5	1.1	1.5	1.1	6.0	85...132	3.2	24.0	32/50	100-C23	140M-F8E-C25	–	67.0
<b>200...240V AC (-15%, +10%) – 1-Phase Input, 0...230V 3-Phase Output</b>														
25A-A1P6N104	–	0.25	0.2	0.25	0.2	1.6	170...264	1.4	5.3	6/10	100-C09	140M-C2E-B63	–	20.0
25A-A2P5N104	25B-A2P5N104	0.5	0.4	0.5	0.4	2.5	170...264	1.7	6.5	10/16	100-C09	140M-C2E-C10	–	29.0
25A-A4P8N104	25B-A4P8N104	1.0	0.75	1.0	0.75	4.8	170...264	2.8	10.7	16/25	100-C12	140M-C2E-C16	–	50.0
25A-A8P0N104	25B-A8P0N104	2.0	1.5	2.0	1.5	8.0	170...264	4.8	18.0	25/40	100-C23	140M-F8E-C25	–	81.0
25A-A011N104	25B-A011N104	3.0	2.2	3.0	2.2	11.0	170...264	6.0	22.9	32/50	100-C37	140M-F8E-C25	–	111.0
<b>200...240V AC (-15%, +10%) – 1-Phase Input with EMC Filter, 0...230V 3-Phase Output</b>														
25A-A1P6N114	–	0.25	0.2	0.25	0.2	1.6	170...264	1.4	5.3	6/10	100-C09	140M-C2E-B63	–	20.0
25A-A2P5N114	25B-A2P5N114	0.5	0.4	0.5	0.4	2.5	170...264	1.7	6.5	10/16	100-C09	140M-C2E-C10	–	29.0
25A-A4P8N114	25B-A4P8N114	1.0	0.75	1.0	0.75	4.8	170...264	2.8	10.7	16/25	100-C12	140M-C2E-C16	–	53.0
25A-A8P0N114	25B-A8P0N114	2.0	1.5	2.0	1.5	8.0	170...264	4.8	18.0	25/40	100-C23	140M-F8E-C25	–	84.0
25A-A011N114	25B-A011N114	3.0	2.2	3.0	2.2	11.0	170...264	6.0	22.9	32/50	100-C37	140M-F8E-C25	–	116.0
<b>200...240V AC (-15%, +10%) – 3-Phase Input, 0...230V 3-Phase Output</b>														
25A-B1P6N104	–	0.25	0.2	0.25	0.2	1.6	170...264	0.9	1.9	3/6	100-C09	140M-C2E-B25	–	20.0
25A-B2P5N104	25B-B2P5N104	0.5	0.4	0.5	0.4	2.5	170...264	1.2	2.7	6/6	100-C09	140M-C2E-B40	–	29.0
25A-B5P0N104	25B-B5P0N104	1.0	0.75	1.0	0.75	5.0	170...264	2.7	5.8	10/16	100-C09	140M-C2E-B63	–	50.0
25A-B8P0N104	25B-B8P0N104	2.0	1.5	2.0	1.5	8.0	170...264	4.3	9.5	16/20	100-C12	140M-C2E-C10	–	79.0
25A-B011N104	25B-B011N104	3.0	2.2	3.0	2.2	11.0	170...264	6.3	13.8	20/32	100-C23	140M-C2E-C16	–	107.0
25A-B017N104	25B-B017N104	5.0	4.0	5.0	4.0	17.5	170...264	9.6	21.1	32/45	100-C23	140M-F8E-C25	–	148.0
25A-B024N104	25B-B024N104	7.5	5.5	7.5	5.5	24.0	170...264	12.2	26.6	35/63	100-C37	140M-F8E-C32	–	259.0
25A-B032N104	25B-B032N104	10.0	7.5	10.0	7.5	32.2	170...264	15.9	34.8	45/70	100-C43	140M-F8E-C45	–	323.0
25A-B048N104	25B-B048N104	15.0	11.0	10.0	7.5	48.3	170...264	20.1	44.0	63/90	100-C60	140M-F8E-C45	1416.0 <sup>(7)</sup>	584.0
25A-B062N104	25B-B062N104	20.0	15.0	15.0	11.0	62.1	170...264	25.6	56.0	70/125	100-C72	–	–	708.0
<b>380...480V AC (-15%, +10%) – 3-Phase Input, 0...460V 3-Phase Output</b>														
25A-D1P4N104	25B-D1P4N104	0.5	0.4	0.5	0.4	1.4	323...528	1.7	1.9	3/6	100-C09	140M-C2E-B25	–	27.0
25A-D2P3N104	25B-D2P3N104	1.0	0.75	1.0	0.75	2.3	323...528	2.9	3.2	6/10	100-C09	140M-C2E-B40	–	37.0
25A-D4P0N104	25B-D4P0N104	2.0	1.5	2.0	1.5	4.0	323...528	5.2	5.7	10/16	100-C09	140M-C2E-B63	–	62.0
25A-D6P0N104	25B-D6P0N104	3.0	2.2	3.0	2.2	6.0	323...528	6.9	7.5	10/16	100-C09	140M-C2E-C10	–	86.0
25A-D010N104	25B-D010N104	5.0	4.0	5.0	4.0	10.5	323...528	12.6	13.8	20/32	100-C23	140M-C2E-C16	–	129.0
25A-D013N104	25B-D010N104	7.5	5.5	7.5	5.5	13.0	323...528	14.1	15.4	20/35	100-C23	140M-D8E-C20	–	170.0
25A-D017N104	25B-D017N104	10.0	7.5	10.0	7.5	17.0	323...528	16.8	18.4	25/40	100-C23	140M-D8E-C20	–	221.0
25A-D024N104	25B-D024N104	15.0	11.0	15.0	11.0	24.0	323...528	24.1	26.4	35/63	100-C37	140M-F8E-C32	656.7 <sup>(7)</sup>	303.0
25A-D030N104	25B-D030N104	20.0	15.0	15.0	11.0	30.0	323...528	30.2	33.0	45/70	100-C43	140M-F8E-C45	656.7 <sup>(7)</sup>	387.0

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PowerFlex 523	PowerFlex 525	Normal Duty		Heavy Duty		Amps	Voltage Range	kVA	Max Amps <sup>(2)</sup>	Fuse Ratings Min/Max	Contactors	140M Motor Protectors <sup>(3) (4) (5)</sup>		
		HP	kW	HP	kW									
<b>380...480V AC (-15%, +10%) – 3-Phase Input with EMC Filter, 0...460V 3-Phase Output</b>														
25A-D1P4N114	25B-D1P4N114	0.5	0.4	0.5	0.4	1.4	323...528	1.7	1.9	3/6	100-C09	140M-C2E-B25	–	27.0
25A-D2P3N114	25B-D2P3N114	1.0	0.75	1.0	0.75	2.3	323...528	2.9	3.2	6/10	100-C09	140M-C2E-B40	–	37.0
25A-D4P0N114	25B-D4P0N114	2.0	1.5	2.0	1.5	4.0	323...528	5.2	5.7	10/16	100-C09	140M-C2E-B63	–	63.0
25A-D6P0N114	25B-D6P0N114	3.0	2.2	3.0	2.2	6.0	323...528	6.9	7.5	10/16	100-C09	140M-C2E-C10	–	88.0
25A-D010N114	25B-D010N114	5.0	4.0	5.0	4.0	10.5	323...528	12.6	13.8	20/32	100-C23	140M-C2E-C16	–	133.0
25A-D013N114	25B-D013N114	7.5	5.5	7.5	5.5	13.0	323...528	14.1	15.4	20/35	100-C23	140M-D8E-C20	–	175.0
25A-D017N114	25B-D017N114	10.0	7.5	10.0	7.5	17.0	323...528	16.8	18.4	25/40	100-C23	140M-D8E-C20	–	230.0
25A-D024N114	25B-D024N114	15.0	11.0	15.0	11.0	24.0	323...528	24.1	26.4	35/63	100-C37	140M-F8E-C32	656.7 <sup>(7)</sup>	313.0
25A-D030N114	25B-D030N114	20.0	15.0	15.0	11.0	30.0	323...528	30.2	33.0	45/70	100-C43	140M-F8E-C45	656.7 <sup>(7)</sup>	402.0
25A-D037N114	25B-D037N114	25.0	18.5	20.0	15.0	37.0	323...528	30.8	33.7	45/70	100-C43	140M-F8E-C45	–	602.0
25A-D043N114	25B-D043N114	30.0	22.0	25.0	18.5	43.0	323...528	35.6	38.9	50/80	100-C60	140M-F8E-C45	–	697.0
<b>525...600V AC (-15%, +10%) – 3-Phase Input, 0...575V 3-Phase Output</b>														
25A-E0P9N104	25B-E0P9N104	0.5	0.4	0.5	0.4	0.9	446...660	1.4	1.2	3/6	100-C09	140M-C2E-B25	–	22.0
25A-E1P7N104	25B-E1P7N104	1.0	0.75	1.0	0.75	1.7	446...660	2.6	2.3	3/6	100-C09	140M-C2E-B25	–	32.0
25A-E3P0N104	25B-E3P0N104	2.0	1.5	2.0	1.5	3.0	446...660	4.3	3.8	6/10	100-C09	140M-C2E-B40	–	50.0
25A-E4P2N104	25B-E4P2N104	3.0	2.2	3.0	2.2	4.2	446...660	6.1	5.3	10/16	100-C09	140M-D8E-B63	–	65.0
25A-E6P6N104	25B-E6P6N104	5.0	4.0	5.0	4.0	6.6	446...660	9.1	8.0	10/20	100-C09	140M-D8E-C10	–	95.0
25A-E9P9N104	25B-E9P9N104	7.5	5.5	7.5	5.5	9.9	446...660	12.8	11.2	16/25	100-C16	140M-D8E-C16 <sup>(6)</sup>	–	138.0
25A-E012N104	25B-E012N104	10.0	7.5	10.0	7.5	12.0	446...660	15.4	13.5	20/32	100-C23	140M-D8E-C16	–	164.0
25A-E019N104	25B-E019N104	15.0	11.0	15.0	11.0	19.0	446...660	27.4	24.0	32/50	100-C30	140M-F8E-C25	656.7 <sup>(7)</sup>	290.0
25A-E022N104	25B-E022N104	20.0	15.0	15.0	11.0	22.0	446...660	31.2	27.3	35/63	100-C30	140M-F8E-C32	656.7 <sup>(7)</sup>	336.0
25A-E027N104	25B-E027N104	25.0	18.5	20.0	15.0	27.0	446...660	28.2	24.7	35/50	100-C30	140M-F8E-C32	1416.0 <sup>(7)</sup>	466.0
25A-E032N104	25B-E032N104	30.0	22.0	25.0	18.5	32.0	446...660	33.4	29.2	40/63	100-C37	140M-F8E-C32	1416.0 <sup>(7)</sup>	562.0

- (1) ■ Normal Duty (ND) and Heavy Duty (HD) ratings are available for this drive.
- (2) When the drive is controlling motors with lower amp ratings, refer to the drive nameplate for drive input current rating.
- (3) The AIC ratings of the Bulletin 140M Motor Protector Circuit Breakers may vary. See Bulletin 140M Motor Protection Circuit Breakers Application Ratings.
- (4) Bulletin 140M with adjustable current range should have the current trip set to the minimum range that the device will not trip.
- (5) Manual Self-Protected (Type E) Combination Motor Controller, UL listed for 480Y/277 and 600Y/347 AC input. Not UL listed for use on 480V or 600V Delta/Delta, corner ground, or high-resistance ground systems.
- (6) When used with the 140M circuit breaker, the 25A-E9P9104 must be installed in a ventilated or non-ventilated enclosure with the minimum size of 457.2 x 457.2 x 269.8 mm (18 x 18 x 10.62 in.).
- (7) When using a Manual Self-Protected (Type E) Combination Motor Controller with this drive power rating, the drive must be installed in a ventilated or non-ventilated enclosure with the minimum volume specified in this column. Application specific thermal considerations may require a larger enclosure.