

# UNIMOTOR FM

## Standard - 230V FM Motor Specifications (Typically Stocked with standard options)

Motor Model	Rated Torque lb-in Nm	Cont. Stall Current Arms	Peak Current Arms	Motor Resistance Ohms	Motor Inductance mH	Max Operating Speed RPM	Inertia lb-in-sec <sup>2</sup> kg-cm <sup>2</sup>	Motor Ke Vrms/krpm	Motor Kt lb-in/Arms Nm/Arms	Motor Weight lb kg
055E2C30	18.7 2.1	2.5	7.4	9.60	30.90	3000	0.000301 0.34	52.5	7.61 0.86	4.0 1.8
055E2C60	18.7 2.1	4.8	14.4	2.50	8.10	6000	0.000301 0.34	26.8	3.89 0.44	4.0 1.8
075E2A40	10.6 1.2	1.7	5.0	10.20	24.60	4000	0.000620 0.70	44.0	6.37 0.72	7.9 3.6
075E2B30	19.5 2.2	2.4	7.1	6.26	18.40	3000	0.001062 1.20	57.0	8.23 0.93	9.7 4.4
075E2B40	19.5 2.2	3.1	9.2	3.39	10.80	4000	0.001062 1.20	44.0	6.37 0.72	9.7 4.4
075E2C40	27.4 3.1	4.3	12.9	1.92	7.14	4000	0.001416 1.60	44.0	6.37 0.72	11.4 5.2
075E2D30	34.5 3.9	4.2	12.6	2.38	8.82	3000	0.001770 2.00	57.0	8.23 0.93	13.2 6.0
095E2B30	38.1 4.3	4.6	13.9	2.68	12.00	3000	0.002567 2.90	57.0	8.23 0.93	13.9 6.3
095E2B40	38.1 4.3	6.0	17.9	1.64	6.77	4000	0.002567 2.90	44.0	6.37 0.72	13.9 6.3
095E2D30	66.4 7.5	8.1	24.2	1.03	5.60	3000	0.004514 5.10	57.0	8.23 0.93	19.1 8.7
095E2D40	66.4 7.5	10.4	31.3	0.62	3.46	4000	0.004514 5.10	44.0	6.37 0.72	19.1 8.7
095E2E30	79.6 9.0	9.7	29.0	0.77	4.65	3000	0.005487 6.20	57.0	8.23 0.93	21.8 9.9
115E2B30	58.4 6.6	7.1	21.3	1.30	9.16	3000	0.005930 6.70	57.0	8.23 0.93	21.3 9.7
115E2C30	83.2 9.4	10.1	30.3	0.73	6.07	3000	0.007965 9.00	57.0	8.23 0.93	25.5 11.6
115E2D30	109.7 12.4	13.3	40.0	0.47	4.26	3000	0.010089 11.40	57.0	8.23 0.93	29.7 13.5
115E2E30	135.4 15.3	16.5	49.4	0.37	3.49	3000	0.012213 13.80	57.0	8.23 0.93	33.9 15.4
142E2B30	95.6 10.8	11.6	34.8	0.59	6.85	3000	0.013806 15.60	57.0	8.23 0.93	29.3 13.3

## Standard - 460V FM Motor Specifications (Typically Stocked with standard options)

Motor Model	Rated Torque lb-in Nm	Cont. Stall Current Arms	Peak Current Arms	Motor Resistance Ohms	Motor Inductance mH	Max Operating Speed RPM	Inertia lb-in-sec <sup>2</sup> kg-cm <sup>2</sup>	Motor Ke Vrms/krpm	Motor Kt lb-in/Arms Nm/Arms	Motor Weight lb kg
055U2C30	18.7 2.1	1.3	4.0	32.00	103.00	3000	0.000301 0.34	95.7	13.98 1.58	4.0 1.8
055U2C60	18.7 2.1	2.7	8.0	8.00	25.70	6000	0.000301 0.34	47.9	6.99 0.79	4.0 1.8
075U2B30	19.5 2.2	1.4	4.1	20.10	41.80	3000	0.001062 1.20	98.0	14.16 1.60	9.7 4.4
075U2B40	19.5 2.2	1.8	5.5	10.50	24.80	4000	0.001062 1.20	73.5	10.62 1.20	9.7 4.4
075U2D30	34.5 3.9	2.4	7.3	7.50	19.70	3000	0.001770 2.00	98.0	14.16 1.60	13.2 6.0
095U2B30	38.1 4.3	2.7	8.1	6.80	24.30	3000	0.002567 2.90	98.0	14.16 1.60	13.9 6.3
095U2B40	38.1 4.3	3.6	10.8	4.08	13.60	4000	0.002567 2.90	73.5	10.62 1.20	13.9 6.3
095U2D30	66.4 7.5	4.7	14.1	2.50	10.90	3000	0.004514 5.10	98.0	14.16 1.60	19.1 8.7
095U2E40	79.6 9.0	7.5	22.5	1.03	4.80	4000	0.005487 6.20	73.5	10.62 1.20	21.8 9.9
115U2B30	58.4 6.6	4.1	12.4	3.86	18.60	3000	0.005930 6.70	98.0	14.16 1.60	21.3 9.7
115U2D30	109.7 12.4	7.8	23.3	1.40	8.60	3000	0.010089 11.40	98.0	14.16 1.60	29.7 13.5
115U2E30	135.4 15.3	9.6	28.7	1.10	7.40	3000	0.012213 13.80	98.0	14.16 1.60	33.9 15.4
142U2B30	95.6 10.8	6.8	20.3	1.72	13.30	3000	0.013806 15.60	98.0	14.16 1.60	29.3 13.3
142U2C30	135.4 15.3	9.6	28.7	0.94	6.30	3000	0.019647 22.20	98.0	14.16 1.60	35.4 16.1
142U2D30	175.2 19.8	12.4	37.1	0.61	6.10	3000	0.025488 28.80	98.0	14.16 1.60	41.6 18.9

The details in the band are an example of an order reference (Std = Standard selection, Opt = Optional selection)

095	U	2	B	30	1	V
Frame size	Motor voltage	Peak torque selection	Stator length	Winding speed	Parking brake	Connection type
055	E = 220V	055 frame only	055 frame	055 frame only	055 frame only	055 frame only
075	U = 400V	2 = Standard peak torque	A	30 = 3000 rpm	0 = Not fitted (Std)	B = Power and Signal 90° rotatable (Std)
095	250 frame only	075-142 frame only	B	60 = 6000 rpm	1 = Parking brake fitted 24Vdc	C = Power 90° rotatable and Signal vertical
115	U = 400V	2 = Standard peak torque	C	075-190 frame only	X = Special	
142		P = High peak torque	075 frame	10 = 1000 rpm	075-190 frame only	V = Power and Signal vertical
190		190-250 frame only	A	20 = 2000 rpm	0 = Not fitted (Std)	X = Special
250		2 = Standard peak torque	B	25 = 2500 rpm	1 = Parking brake fitted 24Vdc	075-190 frame only
			C	30 = 3000 rpm	5 = High energy dissipation parking brake	A = Power and Signal 90° fixed
			D	40 = 4000 rpm	X = Special	B = Power and Signal 90° rotatable
			095-142 frame	45 = 4500 rpm		C = Power 90° rotatable and Signal vertical
			A	50 = 5000 rpm	250 frame only	V = Power and Signal vertical (Std)
			B	60 = 6000 rpm		X = Special
			C	250 frame only		
			D	10 = 1000 rpm	0 = Not fitted (Std)	
			E	15 = 1500 rpm	5 = High energy dissipation parking brake	
			190 frame	20* = 2000 rpm		
			A	25* = 2500 rpm		250 frame only
			B			
			C			C = Power 90° rotatable and Signal vertical
			D			
			E			*H= Power hybrid box and Signal vertical (Std)
			F			V = Power and Signal vertical
			G			
			H			

## UNIMOTOR HD