Unimotor fm Order Information

Use the information below to create an order code for a Unimotor fm (top row is an example).

095	U3	A	30	5	B	A	CA		A	100		190		
Frame size	Motor voltage	Stator length	Rated speed (rpm)	Brake	Connection type	Output shaft	Feedback device		Rotor Inertia + Thermister Type	Bolt Circle Diameter (BCD)		Shaft Diameter (ex. 110=11.0 mm)		
	075-190 Frames	075 Frame	075-190 Frames	075-250 Frames	075-142 Frames	075-250 Frames	075-142 Frames		075-250 Frames	075 Frame			Shaft Length (mm)	Frame Length
075	E3 = 230 V	A	20 = 2000	0 = No Brake	B = Power and Signal 90° and rotatable size 1.0	A = Keyway w/ Full Key installed	AE = Resolver		A = Standard + PTC	075	Std	075 Frame		
095	U3 = 460 V	B	30 = 3000	5 = 24 Vdc Parking brake	C = Power 90° rotatable and signal vertical size 1.0	B = No Keyway	CA = Incremental Encoder (Std)	4096 ppr	B = High + PTC	080	Opt	110	23	A
115	250 Frame	C	40 = 4000		V = Power and Signal Vertical size 1.0	E* = Keyway w/ Half Key installed	EB = Optical Absolute Multi-turn EnDat	EQN 1325	C = Standard + KTY84-130 thermistor	085	Opt	140	30	B-D
142		D	60 = 6000[a]		142-190 Frames		FB = Optical Absolute Single turn EnDat	ECN 1313		095 Frame		190	40	
190	U3 = 460 V	095 -142 Frames	250 Frame		J = Power 90° and signal 90° and rotatable size 1.5	F* = Keyway w/ Half and Full Key included	EC = Inductive Absolute Multi-turn EnDat	EQI 1331	D = High + KTY84-130 thermistor	100	Std	095 Frame		
250		A	10 = 1000		M = Power and Signal Vertical size 1.5		FC = Inductive Absolute Single turn EnDat	ECI 1319		098	Opt	140	30	A
		B	15 = 1500		N = Power 90° rotatable and signal vertical size 1.5		RA = Optical SinCos Multi-turn HIPERFACE	SRM 50		115	Opt	190	40	B-E
		C	20 = 2000		115-190 Frames		SA = Optical SinCos Single turn HIPERFACE	SRS 50		115 Frame		240	50	
		D	25 = 2500		H = Power hybrid box and signal vertical		190-250 Frames			115	Std	115 Frame		
		E			250 Frame		AE = Resolver			130	Opt	190	40	A-C
		190 Frame			H = Power hybrid box and signal vertical (Std)		CA = Incremental Encoder (Std)	4096 ppr		142 Frame		240	50	D, E
		A					EB = Optical Absolute Multi-turn EnDat	EQN 1325		165	Std	240	50	
		B					FB = Optical Absolute Single turn EnDat	ECN 1313		149	Opt	142 Frame		
		C					RA = Optical SinCos Multi-turn HIPERFACE	SRM 50		190 Frame		240	50	A-E
		D					SA = Optical SinCos Single turn HIPERFACE	SRS 50		215	Std	320	58	D, E
		E								250 Frame		190 Frame		
		F								300	Std	320[†]	80[†]	A-H[†]
		G										320	58	A-H
		H										380	58	
		250 Frame										250 Frame		
		D										480	110	D-F
		E												
		F												

Cable length restrictions apply. Refer to cable section for length requirements.

[†]Add (-SREL) to end of E3/U3 order string for 80 mm length shafts on 190 mm frames.

Notes:

*Half key is used to balance shaft. It does not complete shaft radius

a 6000 rpm not available on all frames sizes

190 – Lifting eyelets will be fitted on all 190 motors. This is to enable easy handling of these motors that are often over 55 lbs in weight. If there is an issue with the lifting eyes causing an obstruction when mounting the mating cables then the lifting eyelets maybe removed once the motor is installed.

Hybrid Box Connection "H"– Due to the increased power ratings now available on the E3/U3 motors a hybrid box is now the standard power connection type on some 115 and 190 frames.

Power Connector Ratings - Due to the increased power ratings now available (E3/U3 motors), some power connector have changed. Refer to the Connector Size Reference Tables.