

DC Permanent Magnet SCR Rated, Totally Enclosed

C-Face with Removable Base



Applications: Conveyors, mixers, packaging machinery, and other applications requiring variable speed and constant torque. Widely used in applications requiring dynamic braking or adjustable speed/reversing capabilities.

- Features:**
- Class F insulation
 - NEMA C-Face with removable rigid base
 - Oversized brushes for extra long life
 - Permanently lubricated sealed ball bearings
 - Linear speed/torque characteristics over entire speed range
 - High starting torque, high peak current capability
 - Usable on PWM type DC adjustable speed drives at higher HP rating
 - Easy brush access with unique brush holder design
 - UL Recognized and CSA Certified

HP	RPM	DC VOLTS	FRAME	ENCL.	CAT. NO.	MODEL NO.	LIST PRICE	MULT. SYMB.	C.T. SPEED RANGE	F.L. AMPS	PWM HP RATING	APPROX. WGT. LBS.	"C" DIM.	FOOT NOTES
1/4	1750	90	56C	TEFC	Z602★	56E17F1001	\$463	D1	2:1	2.5	0.40	22	10.81	
	1750	180	56C	TEFC	Z603★	56E17F1002	\$463	D1	2:1	1.4	0.50	22	11.31	
1/3	1750	90	56C	TEFC	Z604★	56E17F1003	\$491	D1	2:1	3.5	0.50	23	11.31	
	1750	180	56C	TEFC	Z605★	56E17F1004	\$491	D1	2:1	1.7	0.50	23	11.31	
1/2	1750	90	56C	TEFC	Z606★	56E17F1005	\$547	D1	2:1	5.0	0.70	22	11.81	
	1750	180	56C	TEFC	Z607★	56E17F1006	\$547	D1	2:1	2.5	0.56	28	11.81	
3/4	1750	90	56C	TEFC	Z610★	56E17F1007	\$664	D1	2:1	7.6	1.00	39	13.81	
	1750	180	56C	TEFC	Z611★	56E17F1008	\$664	D1	2:1	3.8	1.00	39	13.81	
1	1750	90	56C	TEFC	Z612★	56E17F2005	\$811	D1	2:1	10.0	1.25	50	15.81	
	1750	180	56C	TEFC	Z613★	56E17F2006	\$811	D1	2:1	5.0	1.25	42	14.81	
1-1/2	1750	180	56C	TEFC	Z614★	56E17F2007	\$1,014	D1	2:1	7.6	1.75	56	16.81	
	1750	180	145TC	TEFC	Z615★	145TEFR5326	\$1,540	D1	2:1	7.5	1.50	73	18.34	
2	1750	180	145TC	TEFC	Z616★	145TEFR5327	\$1,837	D1	2:1	9.5	2.00	86	20.15	
	1750	180	182/145TC	TEFC	Z617★	182TEFR5326	\$1,837	D1	2:1	9.5	2.00	87	19.34	84

★ Stock Model

SCR PMDC motors on PWM power supplies

Pulse width modulated DC controls have a voltage output similar to pure direct current which has a form factor of 1.05. SCR thyristor drives have a form factor of 1.40. Marathon Electric's non-Explosion Proof PMDC, SCR-rated motors can also be used with PWM controls, and due to the lower form factor and the resultant lower heating in the motor, their rating can be increased as indicated above. Operation on PWM controls will also result in quieter operation and longer brush life.

Footnotes:

84 NEMA 145T C-Face mounting with removable 182T rigid base