

TECO Westinghouse

ISSUED 9/18/2020	PERFORMANCE DATA 3-PHASE PERMANENT MAGNET MOTOR	ENCLOSURE TEFC
TYPE DVEM		CATALOG# PM0104C

NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	TIME RATING	SERVICE FACTOR
HP	KW								
10	7.5	6	215TC	230/460	90	40°C	F	CONT.	1

VARIABLE FREQUENCY DRIVE SERVICE

VARIABLE TORQUE				OHMS/PHASE EQUIVALENT WYE CIRCUIT (AT RATED OPERATING TEMPERATURE 25°C)			
HZ	HP	RPM	TORQUE (lb-ft)	RESIST.	Ld	Lq	BEMF
9~90	0.60~10	180~1800	17.6~29.3	0.653 Ω	5.74 mH	11.94 mH	179 mV/rpm

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
60~90	6.7~10	1200~1800	29.3	90~135	10	1800~2700	29.3~19.6

TYPICAL PERFORMANCE

FULL LOAD RPM	EFFICIENCY			POWER FACTOR			SOUND PRESSURE LEVEL @ 3 FT Db(A)
	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	
1800	92.6	92.7	91.7	97.3	98.6	99.4	67

CURRENTS				TORQUE	INERTIA
NO LOAD 230V (A)	NO LOAD 460V (A)	FULL LOAD 230V (A)	FULL LOAD 460V (A)	FULL LOAD (lb-ft)	ROTOR WR2 (lb-ft ²)
1.60	0.80	29.00	14.50	29.3	0.318

APPROVED:	M. PRATER	DRAWING NO.	31057PM0104C	REVISION:	0
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