

TECO Westinghouse

ISSUED 9/18/2020	PERFORMANCE DATA 3-PHASE PERMANENT MAGNET MOTOR	ENCLOSURE TEFC
TYPE DVEM		CATALOG# PM0014C

NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	TIME RATING	SERVICE FACTOR
HP	KW								
1	0.75	6	143TC	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	0.06~1	180~1800	1.76~2.90	13.604 Ω	35.16 mH	62.23 mH	171 mV/rpm

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
60~90	0.67~1	1200~1800	2.90	90~135	1	1800~2700	2.90~1.95

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	85.7	85.7	85.2	99.2	99.6	99.3	63

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)
0.40	0.20	3.00	1.50	2.90	0.035

APPROVED:	M. PRATER	DRAWING NO.	31057PM0014C	REVISION:	0
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