

TECO Westinghouse

ISSUED 9/18/2020	PERFORMANCE DATA 3-PHASE PERMANENT MAGNET MOTOR	ENCLOSURE TEFC
TYPE DVEM		CATALOG# PM0304C

NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	TIME RATING	SERVICE FACTOR
HP	KW								
30	22	6	286TC	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	1.77~30	180~1800	51.7~86.1	0.183 Ω	3.81 mH	7.06 mH	193 mV/rpm

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
60~90	19.66~30	1200~1800	86.1	90~135	30	1800~2700	86.1~57.4

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	94.5	93.7	93.4	92.1	95.5	97.9	72

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)
1.80	0.90	79.00	39.50	86.1	1.420

APPROVED:	M. PRATER	DRAWING NO.	31057PM0304C	REVISION:	0
-----------	------------------	-------------	---------------------	-----------	----------