

TECO Westinghouse

ISSUED 8/6/2019	PERFORMANCE DATA 3-PHASE PERMANENT MAGNET MOTOR	ENCLOSURE TEFC
TYPE DVEM		CATALOG# DM7/54

NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	TIME RATING	SERVICE FACTOR
HP	KW								
7.5	5.5	6	213T	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	0.44~7.5	180~1800	12.9~21.5	1.087 Ω	8.21 mH	17.07 mH	180 mV/rpm

CONSTANT TORQUE

HZ	HP	RPM	TORQUE (lb-ft)
60~90	4.91~7.5	1200~1800	21.5

CONSTANT HORSEPOWER

HZ	HP	RPM	TORQUE (lb-ft)
90~135	7.5	1800~2700	21.5~14.4

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	91.9	91.6	90.4	96.9	98.4	99.3	66

CURRENTS

NO LOAD (A)	FULL LOAD (A)	TORQUE FULL LOAD (lb-ft)	INERTIA ROTOR WR2 (lb-ft ²)
0.70	10.40	21.5	0.229

APPROVED:	M. PRATER	DRAWING NO.	31057DM7/54	REVISION:	1
-----------	------------------	-------------	--------------------	-----------	----------