

# TECO Westinghouse

ISSUED <b>9/18/2020</b>	<b>PERFORMANCE DATA</b> <b>3-PHASE PERMANENT MAGNET MOTOR</b>	ENCLOSURE <b>TEFC</b>
TYPE <b>DVEM</b>		CATALOG# <b>PM7/54C</b>

### NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	TIME RATING	SERVICE FACTOR
HP	KW								
<b>7.5</b>	<b>5.5</b>	<b>6</b>	<b>213TC</b>	<b>230/460</b>	<b>90</b>	<b>40°C</b>	<b>F</b>	<b>CONT.</b>	<b>1</b>

### 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
<b>9~90</b>	<b>0.44~7.5</b>	<b>180~1800</b>	<b>12.9~21.5</b>	<b>1.087 Ω</b>	<b>8.21 mH</b>	<b>17.07 mH</b>	<b>180 mV/rpm</b>

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
<b>60~90</b>	<b>4.91~7.5</b>	<b>1200~1800</b>	<b>21.5</b>	<b>90~135</b>	<b>7.5</b>	<b>1800~2700</b>	<b>21.5~14.4</b>

### 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 %	
<b>1800</b>	<b>91.9</b>	<b>91.6</b>	<b>90.4</b>	<b>96.9</b>	<b>98.4</b>	<b>99.3</b>	<b>66</b>

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 <sup>2</sup> )
<b>1.40</b>	<b>0.70</b>	<b>20.80</b>	<b>10.40</b>	<b>21.5</b>	<b>0.229</b>

APPROVED:	<b>M. PRATER</b>	DRAWING NO.	<b>31057PM7/54C</b>	REVISION:	<b>0</b>
-----------	------------------	-------------	---------------------	-----------	----------