

# 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>PM0034C</b>

### NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	TIME RATING	SERVICE FACTOR
HP	KW								
<b>3</b>	<b>2.2</b>	<b>6</b>	<b>182TC</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>0.18~3</b>	<b>180~1800</b>	<b>5.17~8.60</b>	<b>4.526 Ω</b>	<b>20.20 mH</b>	<b>42.01 mH</b>	<b>182 mV/rpm</b>

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
<b>60~90</b>	<b>1.97~3</b>	<b>1200~1800</b>	<b>8.60</b>	<b>90~135</b>	<b>3</b>	<b>1800~2700</b>	<b>8.60~5.74</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>89.5</b>	<b>87.3</b>	<b>85.3</b>	<b>92.5</b>	<b>97.2</b>	<b>98.6</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>1.20</b>	<b>0.60</b>	<b>9.00</b>	<b>4.50</b>	<b>8.60</b>	<b>0.101</b>

APPROVED:	<b>M. PRATER</b>	DRAWING NO.	<b>31057PM0034C</b>	REVISION:	<b>0</b>
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