



# DATASHEET

## TECO IE3 FLAMEPROOF (EXD) TEFC

<b>MOTOR SERIES</b>	TECO IE3 FLAMEPROOF (EXD) TEFC	
<b>START METHOD</b>		DIRECT ON LINE
<b>KW RATING</b>		45
<b>VOLTAGE</b>	(V)	415
<b>PHASES</b>		3
<b>FREQUENCY</b>	(Hz)	50
<b>NO OF POLES</b>		2
<b>FRAME</b>		225MA-2P
<b>SPEED</b>		
SYNCHRONOUS	(rpm)	3000
FULL LOAD	(rpm)	2970
<b>CURRENT</b>		
FULL LOAD	(Amps)	70.4
LOCKED ROTOR	%	788
<b>TORQUE</b>		
FULL LOAD TORQUE	(Nm)	144
STARTING TORQUE	%	150
MINIMUM TORQUE	%	120
BREAKDOWN TORQUE	%	320
<b>ROTOR INERTIA (J = GD<sup>2</sup>/4)</b>	(Kgm <sup>2</sup> )	0.3393
<b>EFFICIENCY</b>		
100% LOAD	%	95
75% LOAD	%	95
50% LOAD	%	94
<b>POWER FACTOR</b>		
100% LOAD	%	93
75% LOAD	%	92
50% LOAD	%	87
<b>INSULATION CLASS</b>		F
<b>ENCLOSURE TYPE</b>		TEFC
<b>IP RATING</b>		56
<b>WEIGHT OF MOTOR</b>	kgs	439
<b>BEARINGS</b>		
DRIVE END		6312 C3
NON DRIVE END		6212 C3
<b>NO LOAD SOUND PRESSURE LEVEL @ 1M</b>	dbA	79
<b>DESIGN STANDARD</b>		BS4999, IEC60034, IEC60079-1:2014, IEC60079-0:2011
<b>CERTIFICATION</b>		Ex db, IIB, T4, Gb and Ex db, I, Mb both -20°C < Tamb < 55°C
<b>TEMPERATURE RISE ABOVE AMBIENT</b>		< 80 DEG C