



DATASHEET

TECO IE3 FLAMEPROOF (EXD) TEFC

MOTOR SERIES	TECO IE3 FLAMEPROOF (EXD) TEFC	
START METHOD		DIRECT ON LINE
KW RATING		7.5
VOLTAGE	(V)	415
PHASES		3
FREQUENCY	(Hz)	50
NO OF POLES		6
FRAME		160M
SPEED		
SYNCHRONOUS	(rpm)	1000
FULL LOAD	(rpm)	970
CURRENT		
FULL LOAD	(Amps)	14.7
LOCKED ROTOR	%	896
TORQUE		
FULL LOAD TORQUE	(Nm)	73.7
STARTING TORQUE	%	270
MINIMUM TORQUE	%	235
BREAKDOWN TORQUE	%	270
ROTOR INERTIA (J = GD²/4)	(Kgm ²)	0.121
EFFICIENCY		
100% LOAD	%	90
75% LOAD	%	90.5
50% LOAD	%	89.5
POWER FACTOR		
100% LOAD	%	79
75% LOAD	%	73
50% LOAD	%	61.5
INSULATION CLASS		F
ENCLOSURE TYPE		TEFC
IP RATING		56
WEIGHT OF MOTOR	kgs	173
BEARINGS		
DRIVE END		6309 ZZ C3
NON DRIVE END		6307 ZZ C3
NO LOAD SOUND PRESSURE LEVEL @ 1M	dbA	52
DESIGN STANDARD		BS4999, IEC60034, IEC60079-1:2014, IEC60079-0:2011
CERTIFICATION		Ex db, IIB, T4, Gb and Ex db, I, Mb both -20°C < Tamb < 55°C
TEMPERATURE RISE ABOVE AMBIENT		< 80 DEG C