



DATASHEET

TECO IE3 FLAMEPROOF (EXD) TEFC

MOTOR SERIES	TECO IE3 FLAMEPROOF (EXD) TEFC	
START METHOD		DIRECT ON LINE
KW RATING		18.5
VOLTAGE	(V)	415
PHASES		3
FREQUENCY	(Hz)	50
NO OF POLES		8
FRAME		225SC
SPEED		
SYNCHRONOUS	(rpm)	750
FULL LOAD	(rpm)	735
CURRENT		
FULL LOAD	(Amps)	35.9
LOCKED ROTOR	%	649
TORQUE		
FULL LOAD TORQUE	(Nm)	240
STARTING TORQUE	%	195
MINIMUM TORQUE	%	125
BREAKDOWN TORQUE	%	195
ROTOR INERTIA (J = GD²/4)	(Kgm ²)	0.7268
EFFICIENCY		
100% LOAD	%	93
75% LOAD	%	93
50% LOAD	%	92.5
POWER FACTOR		
100% LOAD	%	77
75% LOAD	%	71.5
50% LOAD	%	60
INSULATION CLASS		F
ENCLOSURE TYPE		TEFC
IP RATING		56
WEIGHT OF MOTOR	kgs	438
BEARINGS		
DRIVE END		6312 C3
NON DRIVE END		6212 C3
NO LOAD SOUND PRESSURE LEVEL @ 1M	dbA	58
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