



DATASHEET

TECO IE3 FLAMEPROOF (EXD) TEFC

MOTOR SERIES	TECO IE3 FLAMEPROOF (EXD) TEFC	
START METHOD		DIRECT ON LINE
KW RATING		55
VOLTAGE	(V)	415
PHASES		3
FREQUENCY	(Hz)	50
NO OF POLES		6
FRAME		280SC
SPEED		
SYNCHRONOUS	(rpm)	1000
FULL LOAD	(rpm)	984
CURRENT		
FULL LOAD	(Amps)	97
LOCKED ROTOR	%	866
TORQUE		
FULL LOAD TORQUE	(Nm)	533
STARTING TORQUE	%	240
MINIMUM TORQUE	%	200
BREAKDOWN TORQUE	%	260
ROTOR INERTIA (J = GD ² /4)	(Kgm ²)	2.225
EFFICIENCY		
100% LOAD	%	94.8
75% LOAD	%	93.9
50% LOAD	%	93.6
POWER FACTOR		
100% LOAD	%	83
75% LOAD	%	81
50% LOAD	%	73
INSULATION CLASS		F
ENCLOSURE TYPE		TEFC
IP RATING		56
WEIGHT OF MOTOR	kgs	838
BEARINGS		
DRIVE END		NU318 C3
NON DRIVE END		6318 C3
NO LOAD SOUND PRESSURE LEVEL @ 1M	dbA	73
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