



DATASHEET

TECO IE3 FLAMEPROOF (EXD) TEFC

MOTOR SERIES	TECO IE3 FLAMEPROOF (EXD) TEFC	
START METHOD		DIRECT ON LINE
KW RATING		90
VOLTAGE	(V)	415
PHASES		3
FREQUENCY	(Hz)	50
NO OF POLES		4
FRAME		280SC-4P
SPEED		
SYNCHRONOUS	(rpm)	1500
FULL LOAD	(rpm)	1480
CURRENT		
FULL LOAD	(Amps)	148
LOCKED ROTOR	%	811
TORQUE		
FULL LOAD TORQUE	(Nm)	580
STARTING TORQUE	%	210
MINIMUM TORQUE	%	170
BREAKDOWN TORQUE	%	250
ROTOR INERTIA (J = GD²/4)	(Kgm ²)	1.7
EFFICIENCY		
100% LOAD	%	95.2
75% LOAD	%	94.7
50% LOAD	%	93.7
POWER FACTOR		
100% LOAD	%	89
75% LOAD	%	86
50% LOAD	%	77
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	75
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