



# DATASHEET

## TECO IE3 FLAMEPROOF (EXD) TEFC

MOTOR SERIES	TECO IE3 FLAMEPROOF (EXD) TEFC	
START METHOD		DIRECT ON LINE
KW RATING		45
VOLTAGE	(V)	415
PHASES		3
FREQUENCY	(Hz)	50
NO OF POLES		8
FRAME		280SC
SPEED		
SYNCHRONOUS	(rpm)	750
FULL LOAD	(rpm)	737
CURRENT		
FULL LOAD	(Amps)	86
LOCKED ROTOR	%	651
TORQUE		
FULL LOAD TORQUE	(Nm)	582
STARTING TORQUE	%	150
MINIMUM TORQUE	%	130
BREAKDOWN TORQUE	%	270
ROTOR INERTIA (J = GD <sup>2</sup> /4)	(Kgm <sup>2</sup> )	2.15
EFFICIENCY		
100% LOAD	%	93.2
75% LOAD	%	93
50% LOAD	%	92.2
POWER FACTOR		
100% LOAD	%	78
75% LOAD	%	72
50% LOAD	%	60.5
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	
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