

			DATA SHEET: FLAMEPROOF INDUCTION MOTOR			Motor Type 2FE2 164-08			
No. of Phases			3	Reference	Performance		IS:12615		
Frame Designation			160L FLP	Standard	Enclosure		IS:60079-1		
Rated Output			kW	5.5	Protection IS:4691		IP 55		
			HP	7.5	Vibration Standard		IS:12075		
No. of Poles			8	Noise Standard		IS:12065			
Rated Voltage			V	415	Duty		S1		
Rated Frequency			Hz	50	Insulation Class/Temp. Rise class		F/B		
Rated Current			A	11.8	Cooling IS:6362		IC411		
Rated Speed			rpm	720	Terminal Box Details	Terminal Size		M6	
Rated Torque			kgm	7.44		No. of Terminal		6	
Efficiency	Full load		%	83.8	Bearing Data	Max. cable size		mm ² 2x3Cx25.0	
	3/4 load		%	83.8		DE		6309ZZ	
	1/2 load		%	82.0		NDE		6309ZZ	
Power factor	Full load			0.77	Lubrication		Prelubricated		
	3/4 load			0.72	Life L10 (Direct coupled)		hrs.	50,000	
	1/2 load			0.60	Regreasing Time		hrs.	-	
Temp. Rise (Res.)			°C	70	Lifting Eyebolt IS:4190		M12		
Acceleration Time			sec.	-	Motor Weight (approx)		kg	150	
Stator Connection				D	Rotor GD ²		kgm ²	0.2625	
Tropicalised? (Yes/No)				Yes	Ambient Temp.		°C	50	
I _{st} / I _r			%	6.0	Overall Dimensions of Packed motor (LxBxH) (mm)				
T _{st} / T _r			%	2.0					
T _{po} / T _r			%	2.2	Voltage Variation ±		%	10	
Locked rotor withstand time			Hot	sec	5	Frequency Variation ±		%	5
			Cold	sec	12	Combiend Variation ±		%	10
Customer Specific Requirements & Remarks									
(1) Efficiency Class : IE2									
(2) Motor Construction : TEFC									
(3) Motor suitable for Gas Gr. IIA / IIB, Zone I & II									
(4) Temp Class: T5 & Explosion Protection : Ex 'd'									
Data subject to tolerance as per IS:12615.									
Prep.: SK			Chkd.: SPJ						
Date: 22/06/2020			Date: 22/06/2020						