



**DATA SHEET:  
FLAMEPROOF INDUCTION MOTOR**

**Motor Type  
2FE2 166-08**

No. of Phases		3	Reference	Performance	IS:12615	
Frame Designation		160L FLP	Standard	Enclosure	IS:60079-1	
Rated Output	kW	7.5	Protection IS:4691		IP 55	
	HP	10.0	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	15.8	Cooling IS:6362		IC411
Rated Speed		rpm	723	Terminal Box Details	Terminal Size	M6
Rated Torque		kgm	10.10		No. of Terminal	6
Efficiency	Full load	%	85.3	Bearing Data	Max. cable size	mm <sup>2</sup> 2x3Cx25.0
	3/4 load	%	85.3		DE	6309ZZ
	1/2 load	%	83.0		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	178
Stator Connection		D		Rotor GD <sup>2</sup>	kgm <sup>2</sup>	0.3440
Tropicalised? (Yes/No)		Yes		Ambient Temp.	°C	50
I <sub>st</sub> / I <sub>r</sub>		%	6.0	Overall Dimensions of Packed motor (LxBxH) (mm)		
T <sub>st</sub> / T <sub>r</sub>		%	2.0			
T <sub>po</sub> / T <sub>r</sub>		%	2.2	Voltage Variation ±	%	10
Locked rotor withstand time	Hot	sec	6	Frequency Variation ±	%	5
	Cold	sec	14	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