

Motor Data Sheet



Output kW	18.5
Pole	2
Frame Size	160L
Voltage	415/690 50Hz, 440/460/480 60Hz
Motor Series	TAI
Construction	Aluminium
Type	TEFC
Protection	IP55
Insulation Class	F with Class B rise
Ambient	-20°C to +40°C at 1000 MASL
IEC Standard	IEC 60034 & 72
Duty	S1
Full Load RPM	2950
Full Load Current @ 400V	31.9 A
Starting Current Ratio	9.78
Full Load Torque (Nm)	59.9
Starting Torque Ratio	3.25
Break Down Torque Ratio	3.38
Pull Up Torque Ratio	1.86
Efficiency @ 100% load	91.9%
Efficiency @ 75% load	91.2%
Efficiency @ 50% load	91.6%
Power factor @ 100% load	0.91
Power factor @ 75% load	0.88
Power factor @ 50% load	0.82
Noise Level dB (A) @ 1 metre	79
Output kW @ 440/460/480V	20.3/21.3/22.2
Full Load RPM @ 60Hz	3540
Full Load Current @ 440/460/480V	29.0/27.7/26.6 A
Vibration Limit	2.8 mm/sec
Bearing Make	NSK
Bearing Type D.E./N.D.E	Ball/Ball
Bearing Size D.E./N.D.E.	6309ZZ/6209ZZ C3
Motor Mass	103 kg
Thermal Protection	PTC 150°C

Note: This data sheet has been issued for our standard TAI series and is subject to change without prior notice.