

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W22Xdb IE3 Three-Phase				
Product code :	12430634				
Catalog # :	E04536XT3YAX225SMF3W				
Frame : 225S/M Output : 45 kW (60 HP) Poles : 2 Frequency : 50 Hz Rated voltage : 380/660 V Rated current : 82.7/47.6 A L. R. Amperes : 554/319 A LRC : 6.7 No load current : 27.2/15.7 A Rated speed : 2960 rpm Slip : 1.33 % Rated torque : 107 ft.lb Locked rotor torque : 229 % Breakdown torque : 280 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 6.79 sq.ft.lb Design : N	Locked rotor time : 23s (cold) 13s (hot) Temperature rise : 80 K Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP56 Cooling method : IC411 - TEFC Mounting : B3T Rotation ¹ : Both (CW and CCW) Noise level ² : 74.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 1151 lb				
Output	25% 50% 75% 100%				
Efficiency (%)	92.9 92.9 93.2 93.1 93.8 93.9 94.0 94.0 92.5 92.6 92.9 92.7 93.9 93.6 94.2 93.6				
Power Factor	0.51 0.46 0.77 0.72 0.84 0.82 0.88 0.86 0.44 0.45 0.70 0.71 0.80 0.81 0.85 0.86				
Foundation loads					
Max. traction : 492 lb					
Max. compression : 1636 lb					
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	6.0	6.0	5.8	6.4
	P2 (0,5;1,0)	4.8	4.8	4.6	5.1
	P3 (0,25;1,0)	4.5	4.5	4.4	4.9
	P4 (0,9;0,5)	3.0	3.0	2.9	3.3
	P5 (0,5;0,5)	1.8	1.8	1.8	2.0
	P6 (0,5;0,25)	1.2	1.2	1.1	1.3
	P7 (0,25;0,25)	0.7	0.7	0.7	0.8
Bearing type	: 6314 C3	Drive end	Non drive end	6314 C3	
Sealing	: Viton Oil Seal			Viton Oil Seal	
Lubrication interval	: 5000 h			5000 h	
Lubricant amount	: 27 g			27 g	
Lubricant type	: Mobil Polyrex EM				
Notes					
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A).					
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.					
Rev.	Changes Summary	Performed	Checked	Date	
Performed by					
Checked by			Page	Revision	
Date	05/02/2025		1 / 3		

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Large empty rectangular area for data entry.

(3) Approximate weight subject to changes after manufacturing process.
(4) At 100% of full load.

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : _____

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	150 °C

Space heater information

Voltage: 200 - 240 V

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 3		Revision
Checked by				
Date	05/02/2025			