

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12430343

Area classification : ZONA 1, GRUPO IIB, T4 (135 °C)

Catalog # : E04518XP3YAX225SMF3W

Frame : 225S/M  
Output : 45 kW (60 HP)  
Poles : 4  
Frequency : 50 Hz  
Rated voltage : 380/660 V  
Rated current : 85.4/49.2 A  
L. R. Amperes : 581/334 A  
LRC : 6.8  
No load current : 32.0/18.4 A  
Rated speed : 1480 rpm  
Slip : 1.33 %  
Rated torque : 214 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 260 %  
Insulation class : F  
Service factor : 1.00  
Moment of inertia (J) : 12.3 sq.ft.lb  
Design : N

Locked rotor time : 12s (cold) 7s (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<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 68.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 1139 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.6	92.6	92.8	92.8	93.0	93.0	93.1	93.1
	92.3	92.2	92.5	92.4	93.0	93.6	93.1	93.6
Power Factor	0.48	0.43	0.74	0.70	0.83	0.80	0.86	0.84
	0.41	0.42	0.67	0.69	0.78	0.79	0.82	0.84

Foundation loads  
Max. traction : 1255 lb  
Max. compression : 2394 lb

	Drive end	Non drive end
Bearing type	: 6314 C3	: 6314 C3
Sealing	: Viton Oil Seal	: Viton Oil Seal
Lubrication interval	: 14000 h	: 14000 h
Lubricant amount	: 27 g	: 27 g
Lubricant type	: Mobil Polyrex EM	

### Notes:

ATEX  
INERIS 17ATEX0001X  
CML 21UKEX1314X  
II 2G Ex db IIB T4 Gb  
EAC  
EAЭC RU C-BR.AA87.B.00379/20  
1Ex db IIB T4 Gb X  
ООО «НАИНО ЛЦБЭ»  
IECEX  
IECEX INE 16.0060X  
Ex db IIB T4 Gb

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

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

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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

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