

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12430388

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

Catalog # : E09018XP3YAX280SMF3W

Frame : 280S/M
Output : 90 kW (125 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 170/97.9 A
L. R. Amperes : 1190/685 A
LRC : 7.0
No load current : 52.5/30.2 A
Rated speed : 1484 rpm
Slip : 1.07 %
Rated torque : 427 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 44.6 sq.ft.lb
Design : N

Locked rotor time : 41s (cold) 23s (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
Rotation¹ : Both (CW and CCW)
Noise level² : 71.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 2127 lb

Output	25%	50%	75%	100%				
Efficiency (%)	94.5	94.0	94.4	94.1	94.7	94.5	94.7	
Power Factor	0.51	0.47	0.76	0.72	0.82	0.80	0.85	0.84
	0.43	0.46	0.69	0.72	0.78	0.80	0.82	0.83

Foundation loads
Max. traction : 1775 lb
Max. compression : 3902 lb

	Drive end	Non drive end
Bearing type	6316 C3	6316 C3
Sealing	Viton Oil Seal	Viton Oil Seal
Lubrication interval	13000 h	13000 h
Lubricant amount	34 g	34 g
Lubricant type	Mobil Polyrex EM	

Notes:

EAC
EA3C RU C-BR.AA87.B.00379/20
1Ex db IIB T4 Gb X
ООО «НАННО ЦСВЭ»
IECEX
IECEX INE 16.0044X
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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	27/03/2024			
			Page	Revision
			1 / 2	

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	Revision
Checked by					
Date	27/03/2024			2 / 2	