

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430657

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

Catalog # : E02218XT3YAX180LF3-W

Frame : 180M/L
Output : 22 kW (30 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 42.3/24.4 A
L. R. Amperes : 309/178 A
LRC : 7.3
No load current : 17.0/9.79 A
Rated speed : 1475 rpm
Slip : 1.67 %
Rated torque : 105 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 310 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 4.98 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
Rotation¹ : Both (CW and CCW)
Noise level² : 61.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 600 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.2	92.0	92.5	92.3	92.8	93.0	93.0	93.2
	91.5	91.6	91.9	92.1	92.8	93.2	93.0	93.6
Power Factor	0.44	0.40	0.70	0.66	0.81	0.77	0.85	0.83
	0.37	0.39	0.62	0.64	0.74	0.76	0.81	0.82

Foundation loads
Max. traction : 1216 lb
Max. compression : 1827 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	7.2	7.0	7.2	6.6
	P2 (0,5;1,0)	6.2	6.0	6.2	5.6
	P3 (0,25;1,0)	6.1	5.9	6.1	5.6
	P4 (0,9;0,5)	3.4	3.3	3.4	3.1
	P5 (0,5;0,5)	2.4	2.4	2.4	2.2
	P6 (0,5;0,25)	1.6	1.5	1.6	1.4
	P7 (0,25;0,25)	1.1	1.1	1.1	1.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 C3	6309 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	13 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
INERIS 22ATEX0025X
CML 23UKEX1256X
II 2G Ex db IIB T4 Gb
EAC
EAЭC RU C-BR.AA87.B.00379/20
1Ex db IIB T4 Gb X
ООО «НАННО ЛСВЭ»
IECEX
IECEX INE 22.0044X
Ex db IIB T4 Gb

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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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