

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430634

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

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
Rotation¹ : Both (CW and CCW)
Noise level² : 74.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1145 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

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	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:

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 «НАННО ЦСВЭ»
IECEX
IECEX INE 16.0060X
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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