

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 12425767

Area classification : ZONA 2/22, GRUPO IIC/IIIB, T3(200 °C)/
T125 °C

Catalog # : E04518EP3YAX225SMF3W

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 : IP55
Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 819 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 : 1415 lb
Max. compression : 2234 lb

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

Losses (%)	P1 (0,9;1,0)	7.2	7.2	7.2	6.6
	P2 (0,5;1,0)	6.0	6.0	6.0	5.5
	P3 (0,25;1,0)	5.4	5.4	5.4	5.0
	P4 (0,9;0,5)	3.2	3.2	3.2	3.0
	P5 (0,5;0,5)	2.1	2.1	2.1	2.0
	P6 (0,5;0,25)	1.3	1.3	1.3	1.2
	P7 (0,25;0,25)	0.9	0.9	0.9	0.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	14000 h	14000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

EAC
TC RU C-BR.AA87.B.00977/22
2Ex ec IIC T3 Gc X
Ex tc IIIB T125°C Dc X
ООО «НАННО ЛСБЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	140 °C
2	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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