

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861537

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

Catalog # : E05512ET3YAX280SMF3W

Frame : 280S/M
Output : 55 kW (75 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 110/63.1 A
L. R. Amperes : 668/385 A
LRC : 6.1
No load current : 47.0/27.1 A
Rated speed : 988 rpm
Slip : 1.20 %
Rated torque : 392 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 63.8 sq.ft.lb
Design : N

Locked rotor time : 32s (cold) 18s (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 : 65.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1526 lb

Output	50%	75%	100%
Efficiency (%)	94.0 93.5	94.2 94.2	94.2 94.3
	93.0 93.0	94.0 94.5	94.3 94.5
Power Factor	0.67 0.62	0.76 0.74	0.81 0.79
	0.60 0.60	0.71 0.73	0.78 0.79

Foundation loads
Max. traction : 1754 lb
Max. compression : 3280 lb

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

Losses (%)	P1 (0,9;1,0)	5.9	5.8	5.8	5.6
	P2 (0,5;1,0)	4.9	4.8	4.8	4.6
	P3 (0,25;1,0)	4.7	4.6	4.6	4.4
	P4 (0,9;0,5)	3.0	2.9	2.9	2.8
	P5 (0,5;0,5)	2.0	2.0	2.0	1.9
	P6 (0,5;0,25)	1.4	1.3	1.3	1.3
	P7 (0,25;0,25)	1.0	0.9	0.9	0.9

	Drive end	Non drive end
Bearing type :	6316 C3	6316 C3
Sealing :	WSeal	WSeal
Lubrication interval :	18000 h	18000 h
Lubricant amount :	34 g	34 g
Lubricant type :	Mobil Polyrex EM	

Notes:

ATEX
Baseefa 10ATEX0192X
BAS21UKEX0284X
II 3G Ex ec IIC T3 Gc
II 3D Ex tc IIIB T125°C Dc
EAC
TC RU C-BR.AA87.B.00977/22
2Ex ec IIC T3 Gc X
Ex tc IIIB T125°C Dc X
OOO «НАННО ЦСБЭ»
IECEX
IECEX BAS 10.0099X

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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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