

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase Product code : 12861568
Area classification : ZONA 2/22, GRUPO IIC/IIIB, T3(200 °C)/T125 °C

Frame	: 315S/M	Locked rotor time	: 63s (cold) 35s (hot)
Output	: 75 kW (100 HP)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.
Rated current	: 147/84.6 A	Protection degree	: IP55
L. R. Amperes	: 837/482 A	Cooling method	: IC411 - TEFC
LRC	: 5.7	Mounting	: B3T
No load current	: 58.0/33.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 990 rpm	Noise level ²	: 67.0 dB(A)
Slip	: 1.00 %	Starting method	: Direct On Line
Rated torque	: 534 ft.lb	Approx. weight ³	: 2029 lb
Locked rotor torque	: 180 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 103 sq.ft.lb		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.6 94.0	94.8 94.6	94.6 94.6	Max. traction	: 1964 lb
	93.5 93.6	94.6 95.0	94.6 95.0		
Power Factor	0.70 0.66	0.79 0.76	0.82 0.81	Max. compression	: 3993 lb
	0.61 0.65	0.73 0.74	0.79 0.80		

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

Losses (%)	P1 (0,9;1,0)	5.5	5.5	5.5	5.0
	P2 (0,5;1,0)	4.4	4.4	4.4	4.1
	P3 (0,25;1,0)	4.2	4.2	4.2	3.8
	P4 (0,9;0,5)	2.7	2.7	2.7	2.5
	P5 (0,5;0,5)	1.8	1.8	1.8	1.7
	P6 (0,5;0,25)	1.2	1.2	1.2	1.1
	P7 (0,25;0,25)	0.8	0.8	0.8	0.8

		Drive end	Non drive end
Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	16000 h	18000 h
Lubricant amount	:	45 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
ООО «НАННО ЦСВЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc

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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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