

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861413

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

Catalog # : E07518ET3YAX280SMF3W

Frame : 280S/M
Output : 75 kW (100 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 141/81.2 A
L. R. Amperes : 987/568 A
LRC : 7.0
No load current : 44.0/25.3 A
Rated speed : 1485 rpm
Slip : 1.00 %
Rated torque : 356 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 49.5 sq.ft.lb
Design : N

Locked rotor time : 36s (cold) 20s (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 : 69.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1633 lb

Output	50%	75%	100%
Efficiency (%)	94.7 94.5	94.9 95.1	95.0 95.2
	94.4 93.8	94.9 94.7	95.2 95.4
Power Factor	0.75 0.72	0.82 0.80	0.85 0.84
	0.69 0.70	0.78 0.79	0.82 0.83

Foundation loads
Max. traction : 1560 lb
Max. compression : 3009 lb

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

Losses (%)	P1 (0,9;1,0)	4.9	4.7	4.7	4.5
	P2 (0,5;1,0)	3.8	3.7	3.7	3.5
	P3 (0,25;1,0)	3.5	3.4	3.4	3.2
	P4 (0,9;0,5)	2.5	2.4	2.4	2.3
	P5 (0,5;0,5)	1.5	1.5	1.5	1.4
	P6 (0,5;0,25)	1.0	1.0	1.0	0.9
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

	Drive end	Non drive end
Bearing type :	6316 C3	6316 C3
Sealing :	WSeal	WSeal
Lubrication interval :	13000 h	13000 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
ООО «НАИНО ЛЦБЭ»
IECEX
IECEX BAS 10.0099X

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
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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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