

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12431058

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

Catalog # : E07518XP3YAX280SMF3W

Frame	: 280S/M	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 75 kW (100 HP)	Temperature rise	: 80 K
Poles	: 4	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	: 141/81.2 A	Protection degree	: IP56
L. R. Amperes	: 987/568 A	Cooling method	: IC411 - TEFC
LRC	: 7.0	Mounting	: B3T
No load current	: 44.0/25.3 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1485 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 1.00 %	Starting method	: Direct On Line
Rated torque	: 356 ft.lb	Approx. weight ³	: 2016 lb
Locked rotor torque	: 190 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 46.1 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	94.5	94.3	94.7	94.5	94.9	95.1	95.0	95.2	Max. traction	: 1280 lb
	94.0	93.1	94.4	93.8	94.9	94.7	95.2	95.4		
Power Factor	0.51	0.47	0.75	0.72	0.82	0.80	0.85	0.84	Max. compression	: 3290 lb
	0.44	0.45	0.69	0.70	0.78	0.79	0.82	0.83		

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

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6316 C3	6316 C3
Sealing	:	Viton Oil Seal	Viton Oil Seal
Lubrication interval	:	13000 h	13000 h
Lubricant amount	:	34 g	34 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX
 INERIS 16ATEX0036X
 CML 21UKEX1315X
 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 16.0044X
 Ex db IIB T4 Gb

Rev.	Changes Summary	Performed	Checked	Date
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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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