DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		: W21 Flameproof Motor NEMA Premium Efficiency Three-Phase			Product code : Catalog # :		12408939 00156XT3E143TC	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree		: 143TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: F-1 : Both : Direc : 68.8 I	: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 68.8 lb : 0.0413 sq.ft.lb	
Design		: B			1			
Output [HP]		1.5 2		1.5 2	1.5	5	<u>1.5</u> 2	
Poles Frequency [Hz]		60		 50	50	1	50	
Rated voltage [V]		208-230/460			400		415	
Rated current [A]		4.53-4.10/2.05		2.36	2.3		2.29	
L. R. Amperes [A]		41.7-37.7/18.9		18.9	19.		19.9	
RC [A]		9.2x(Code M)			8.4x(Co	de L)	8.7x(Code L)	
No load current [A]		1.90-2.20/1.10		0.900	1.0	,	1.10	
Rated speed [RPN		3500		2875	288	5	2895	
Slip [%]	-	2.78			3.8	3	3.50	
Rated torque [ft.lb]		2.22			2.6	9	2.68	
ocked rotor torqu		300		280	320		360	
Breakdown torque [%]		400		300	330		360	
Service factor		1.15		1.00	1.0		1.00	
Temperature rise		80 K		80 K	80		80 K	
Locked rotor time					d) 11s (hot) 19s (cold)		19s (cold) 11s (hot)	
Noise level ²		68.0 dB(A)	6	2.0 dB(A)	62.0 d		62.0 dB(A)	
	25%	76.9		79.0	79.		82.4	
Efficiency (%)	50%	78.5		79.5	80.		81.5	
	75%	82.5		82.5	82.		84.0	
Power Factor	100% 25%	84.0 0.37		82.5 0.46	82.		82.5 0.38	
	50%	0.62		0.40	0.4		0.38	
	75%	0.02		0.70	0.0	-	0.03	
	100%	0.80		0.86	0.7		0.81	
Bearing type Sealing Lubrication interval Lubricant amount		<u>Drive end</u> <u>Non dr</u> : 6205 2RS 620	Drive end 6205 2RSNon drive end 6204 2RSFoundat Max. traOil SealLip SealMax. con		lation loads			
Lubricant type Notes				<u> </u>				
This revision repl	ed.	icel the previous one, wh	hich				sts with sinusoidal stipulated in NEMA	
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ID	Application	Туре	Quantity	Sensing	Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	1:	30 °C
2	Winding	Thermostat - 2 wires	1 x Phase	1	55 °C
Rev.	Change	s Summary	Performed	Checked	Date
Performe	d by				
Checked				Page	Revision
Date				2/2	
2410					/ ·

Thermal protection

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