

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14337969		
		Catalog # : 00318XT3E182TC		
Frame : 182/4TC Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : B		Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ³ : 123 lb Moment of inertia (J) : 0.2781 sq.ft.lb		
Output [HP]	3		3	
Poles	4		4	
Frequency [Hz]	60		50	
Rated voltage [V]	230/460		380	
Rated current [A]	8.02/4.01		4.72	
L. R. Amperes [A]	64.2/32.1		30.7	
LRC [A]	8.0x(Code K)		6.5x(Code H)	
No load current [A]	4.20/2.10		2.20	
Rated speed [RPM]	1760		1450	
Slip [%]	2.22		3.33	
Rated torque [ft.lb]	8.95		10.9	
Locked rotor torque [%]	250		215	
Breakdown torque [%]	320		250	
Service factor	1.15		1.00	
Temperature rise	80 K		80 K	
Locked rotor time	50s (cold) 28s (hot)		45s (cold) 25s (hot)	
Noise level ²	56.0 dB(A)		56.0 dB(A)	
Efficiency (%)	25%	86.2	89.2	
	50%	87.3	88.5	
	75%	88.5	88.5	
	100%	89.5	87.5	
Power Factor	25%	0.35	0.38	
	50%	0.59	0.63	
	75%	0.71	0.75	
	100%	0.77	0.81	
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1 (0,9;1,0)		11.0	13.4
	P2 (0,5;1,0)		8.7	10.6
	P3 (0,25;1,0)		8.3	10.1
	P4 (0,9;0,5)		6.4	7.8
	P5 (0,5;0,5)		4.2	5.1
	P6 (0,5;0,25)		3.2	3.9
	P7 (0,25;0,25)		2.3	2.8
Drive end Non drive end Bearing type : 6307 2RS 6206 2RS Sealing : Oil Seal Lip Seal Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM		Foundation loads Max. traction : 138 lb Max. compression : 261 lb		
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A).		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
Rev.	Changes Summary		Performed	Checked
Performed by				
Checked by			Page	Revision
Date	12/10/2023		1 / 3	

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Customer :

Notes

USABLE @208V 8.65A SF 1.15 SFA 9.94A

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 3	
Date	12/10/2023				

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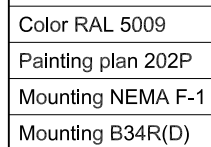
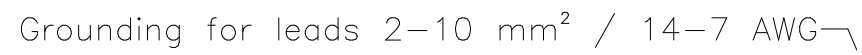
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
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Dimensions in inches


W21X NEMA
Premium

14337969

CC029A

Inverter Duty Motor
Severe Duty


LISTED

MODEL 00318XT3E182TC

PH 3 | FR 182/4TC

HP(kW) 3.0(2.2)

HZ 60

IP55

V 230/460

A 8.02/4.01

RPM 1760

NEMA NOM EFF 89.5%

PF 0.77

SFA 9.22/4.61

DES B

INS CL F Δ T 80 K | SF 1.15

ENCL TEFC

DUTY CONT.

CODE K

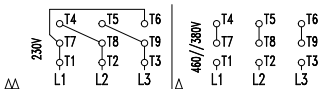
ALT 1000

m.a.s.l.

AMB 40°C

AMB 55°C SF1.0

3.0HP 2.2kW 50Hz 380V 4.72A 1450RPM SF1.00 EFF 87.5% (IE3)


 → 6307-2RS MOBIL POLYREX EM
 → 6206-2RS

123 Lbs


 TEMP CODE T3C
 CSA/UL: Class I - Div. 1 - Groups C and D
 CSA: Class II - Div. 1 - Groups F and G
 CSA: Class I - Zone 1 - IIB

EXPLOSION PROOF MOTOR

FOR USE ON VPWM VFD 1000:1VT, 20:1CT, 1.0SF, T3C, AMB 40°C.