

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14407501			
		Catalog # : 02018XT3ER256TC			
Frame : 256TC	Insulation class : F	Cooling method : IC411 - TEFC	Mounting : W-6		
Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Rotation ¹ : Both (CW and CCW)	Starting method : Direct On Line		
Altitude : 1000 m.a.s.l.	Protection degree : IP55	Approx. weight ³ : 374 lb	Moment of inertia (J) : 2.89 sq.ft.lb		
Design : B					
Output [HP]	20		20		
Poles	4		4		
Frequency [Hz]	60		50		
Rated voltage [V]	230/460		380		
Rated current [A]	50.0/25.0		29.8		
L. R. Amperes [A]	375/188		173		
LRC [A]	7.5x(Code J)		5.8x(Code G)		
No load current [A]	23.6/11.8		11.7		
Rated speed [RPM]	1770		1455		
Slip [%]	1.67		3.00		
Rated torque [ft.lb]	59.3		72.2		
Locked rotor torque [%]	300		210		
Breakdown torque [%]	300		220		
Service factor	1.15		1.00		
Temperature rise	80 K		80 K		
Locked rotor time	36s (cold) 20s (hot)		36s (cold) 20s (hot)		
Noise level ²	69.0 dB(A)		67.0 dB(A)		
Efficiency (%)	25%	91.0	92.9		
	50%	91.7	92.4		
	75%	92.4	91.7		
	100%	93.0	91.0		
Power Factor	25%	0.38	0.43		
	50%	0.63	0.69		
	75%	0.75	0.79		
	100%	0.81	0.84		
Bearing type : 6309 C3	Drive end : 6309 C3	Non drive end : 6209 C3	Foundation loads		
Sealing : Oil Seal		Lip Seal	Max. traction : 707 lb		
Lubrication interval : 14395 h		15700 h	Max. compression : 1081 lb		
Lubricant amount : 13 g		9 g			
Lubricant type : Mobil Polyrex EM					
Notes USABLE @208V 55.3A SF 1.15 SFA 63.6A					
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). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.			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	Date
Performed by					
Checked by				Page	Revision
Date	12/10/2023			1 / 2	

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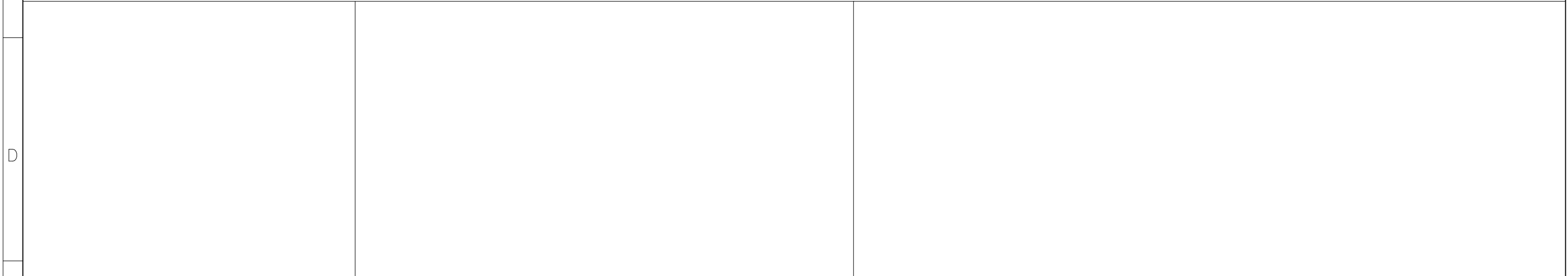
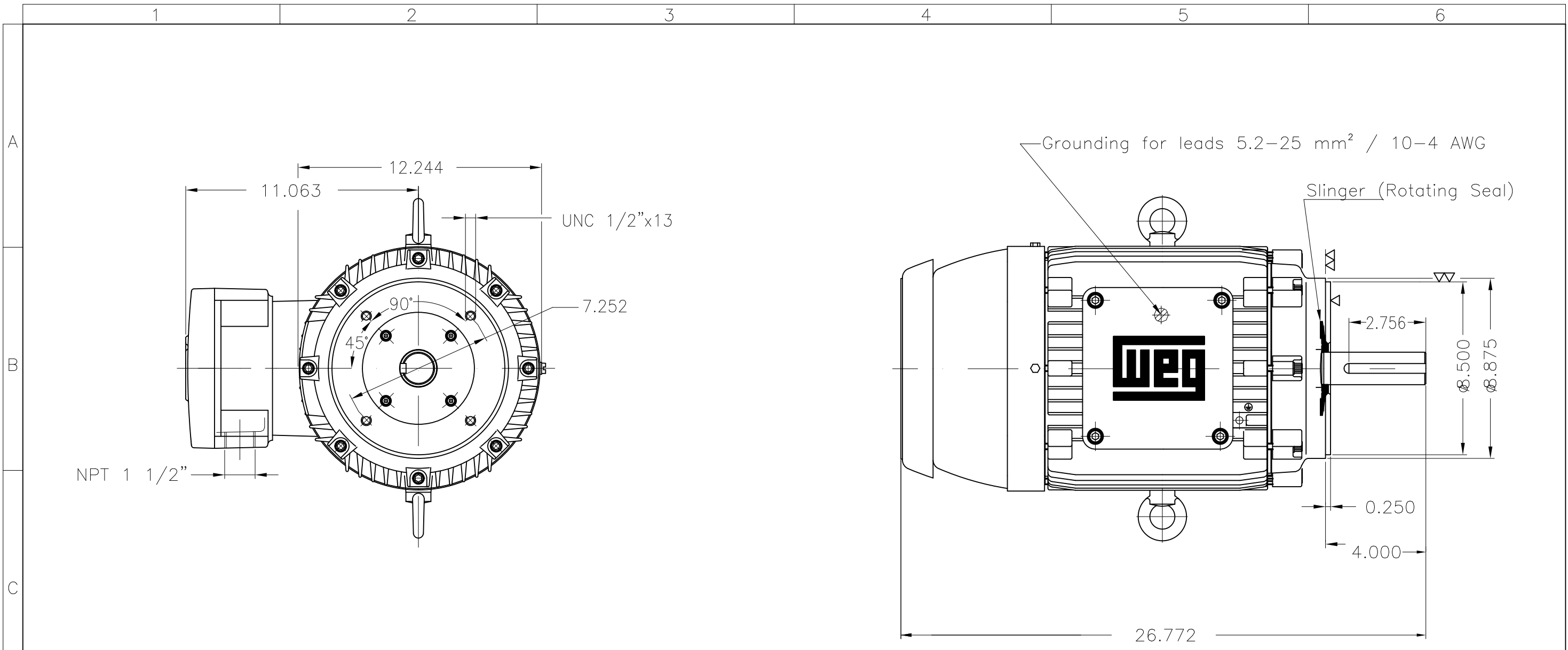
Three Phase Induction Motor - Squirrel Cage

Customer : _____

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 2 / 2		Revision
Checked by				
Date	12/10/2023			



20 HP 04 Poles 60 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	HYBRISUSER	EXECUTED	CHECKED	RELEASED	DATE	VER
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With grease fitting	Color RAL 5009	Painting plan 222P	Mounting NEMA W-6	Mounting V18	DE Shaft End	0.375	0.375	1.406	1.6250	1.6240	HYBRISUSER	00
									THREE PH. MOTOR EXPLOSION PROOF NEMA PREM. EFF. FRAME 256TC IP55 TEFC		PREVIEW WDD 00 SHEET 1 / 1	
									WMO Jaragua do Sul Product Engineering			

MADE IN BRAZIL

**W21X NEMA**
Premium

14407501



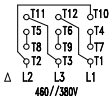
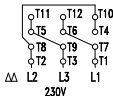
LISTED

CC029A

Inverter Duty Motor
Severe Duty

MODEL 02018XT3ER256TC

PH 3	FR 256TC		
HP(kW) 20.0(15.0)		HZ 60	IP55
V 230/460		A 50.0/25.0	
RPM 1770		NEMA NOM EFF 93.0%	
PF 0.81		SFA 57.5/28.7	DES B
INS CL F Δ T 80 K		SF 1.15	ENCL TEFC
DUTY CONT.		CODE J	ALT 1000 m.a.s.l.
AMB 40°C			
AMB 55°C SF1.0			
20HP 15kW 50Hz 380V 29.8A 1455RPM SF1.00 EFF 91.0% (IE2)			



→ 6309-C3 MOBIL POLYREX EM
→ 6209-C3 13 g 14395 h

375 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, 6:1CT, 1.0SF, T3C, AMB 40°C.