DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code: 12808930

Catalog #: .2512OT3E56-S

Frame : 56 Cooling method : IC01 - ODP Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Ambient temperature		20 0 10 140 0	Starting method	. Direct Off Lifte
Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 16.8 lb
			Moment of inertia (J)	: 0.0622 sq.ft.lb
Output [HP]		0.25	0.25	0.25
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]		1.21-1.10/0.549	1.18/0.588	1.13/0.597
L. R. Amperes [A]		5.83-5.27/2.64	4.70/2.35	4.73/2.51
LRC [A]		4.8x(Code K)	4.0x(Code G)	4.2x(Code H)
No load current [A	.]	0.862-1.00/0.500	0.942/0.471	0.956/0.507
Rated speed [RPI	Л]	1160	950	955
Slip [%]		3.33	5.00	4.50
Rated torque [ft.lb]		1.13	1.38	1.37
Locked rotor torqu	ie [%]	210	160	180
Breakdown torque	: [%]	280	220	250
Service factor			1.35	1.35
Temperature rise		80 K	80 K	80 K
Locked rotor time		72s (cold) 40s (hot)	82s (cold) 46s (hot)	73s (cold) 41s (hot)
Noise level ²		50.0 dB(A)	48.0 dB(A)	48.0 dB(A)
	25%	52.2	55.9	52.7
Efficiency (%)	50%	55.0	57.9	55.3
Liliciency (70)	75%	64.0	64.3	62.8
	100%	67.5	66.4	65.9
	25%	0.22	0.27	0.25
Power Factor	50%	0.41	0.48	0.45
I OWEI Facior	75%	0.52	0.60	0.56
	100%	0.61	0.70	0.66
		Duling and Manadahar and	Farmalatian la ada	

Non drive end Drive end Foundation loads

6203 ZZ Bearing type 6202 ZZ : 25 lb Max. traction Sealing Without Without Max. compression : 42 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V SF 1.00

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.

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TORQUE AND CURRENT VS SPEED CURVE

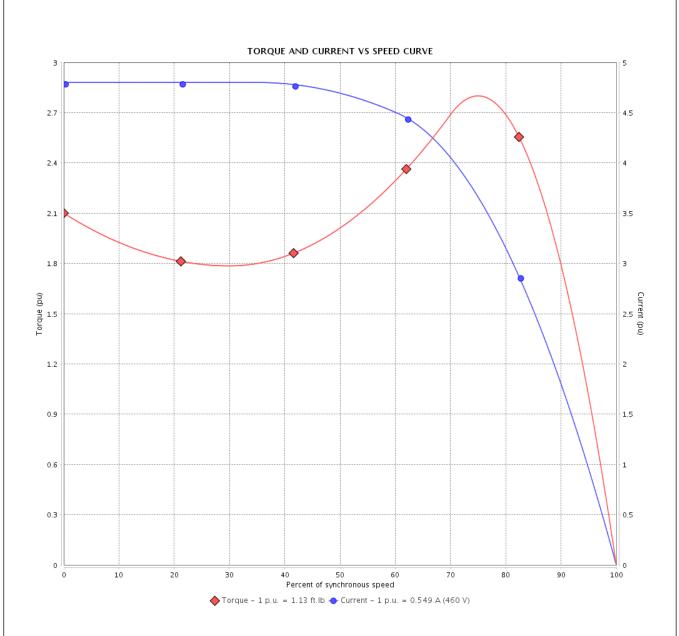
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Performance : 208-230/460 V 60 Hz 6P Rated current : 1.21-1.10/0.549 A Moment of inertia (J) : 0.0622 sq.ft.lb **LRC** : 4.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.13 ft.lb : F Locked rotor torque : 210 % Service factor : 80 K Breakdown torque : 280 % Temperature rise

Locked rotor time : 72s (cold) 40s (hot)

: 1160 rpm

Rated speed

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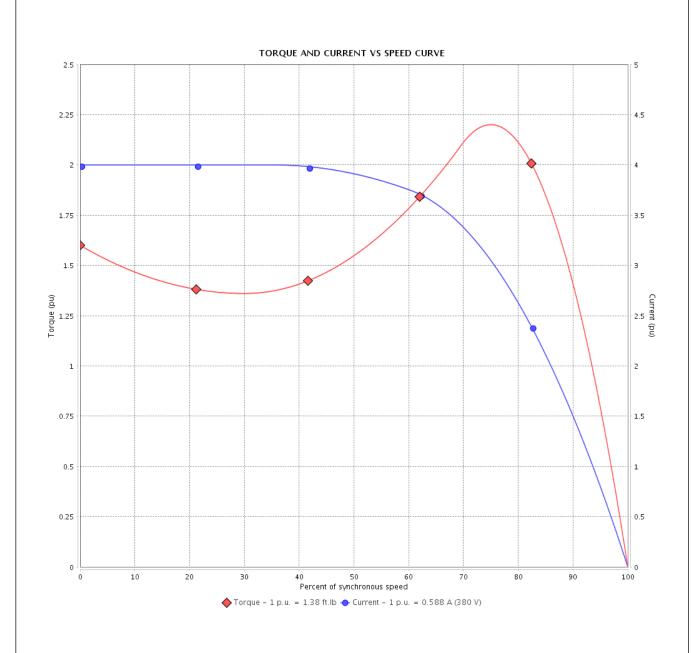
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Performance : 190/380 V 50 Hz 6P Rated current : 1.18/0.588 A Moment of inertia (J) : 0.0622 sq.ft.lb **LRC** : 4.0 Duty cycle : Cont.(S1) : 1.38 ft.lb Insulation class : F Rated torque : 160 % Service factor Locked rotor torque : 1.35 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 950 rpm

Locked rotor time : 82s (cold) 46s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

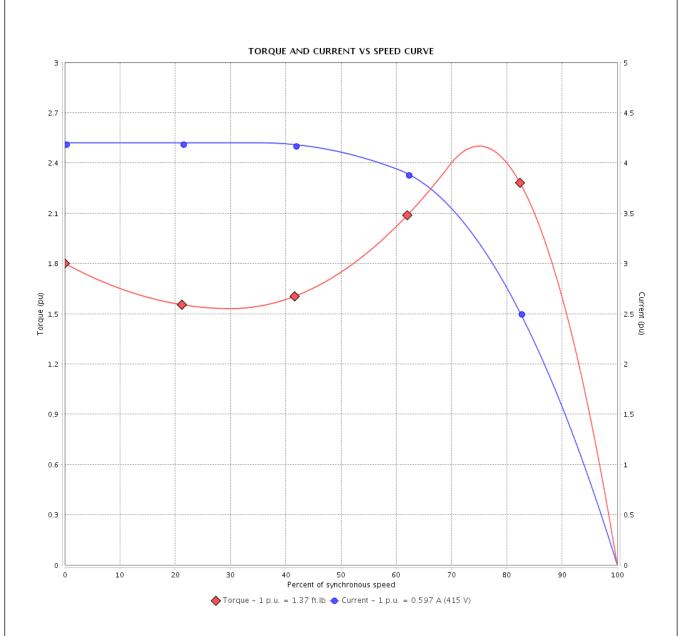
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Performance : 220/415 V 50 Hz 6P Rated current : 1.13/0.597 A Moment of inertia (J) : 0.0622 sq.ft.lb **LRC** : 4.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 1.37 ft.lb Service factor Locked rotor torque : 180 % : 1.35 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 955 rpm

Locked rotor time : 73s (cold) 41s (hot)

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LOAD PERFORMANCE CURVE

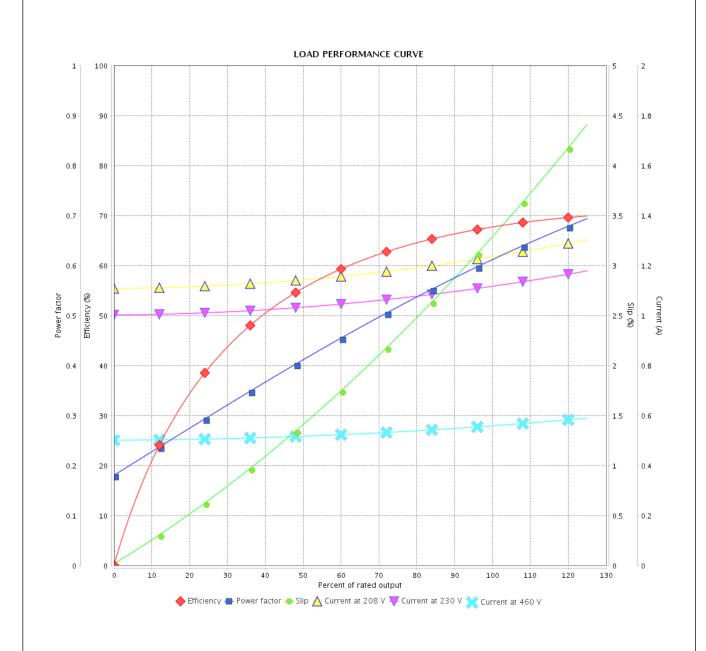
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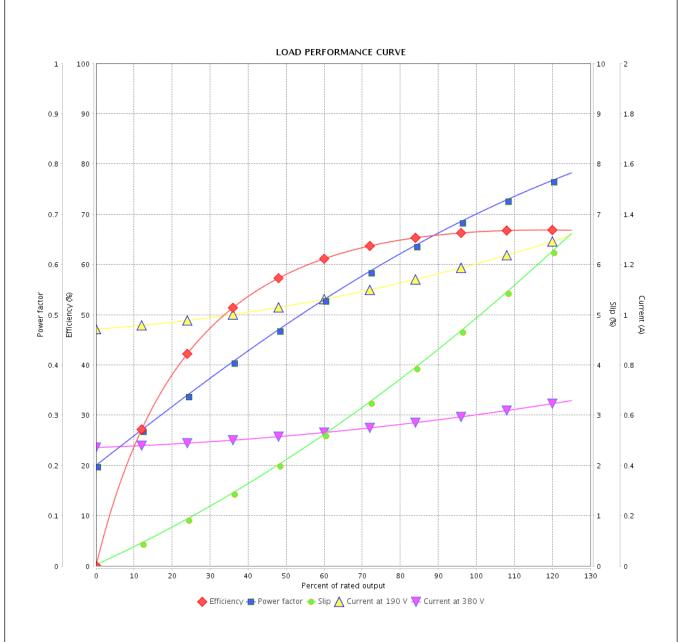
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Breakdown torque : 220 % Temperature rise : 80 K
Rated speed : 950 rpm

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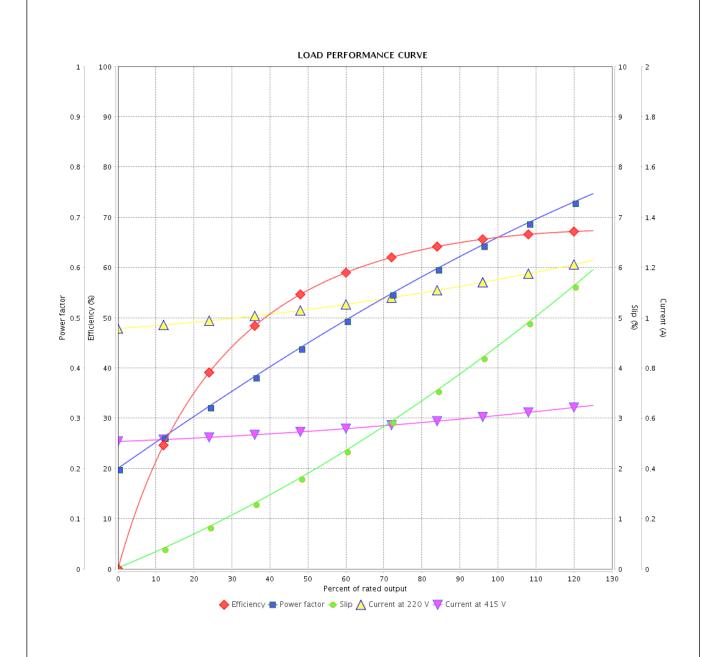
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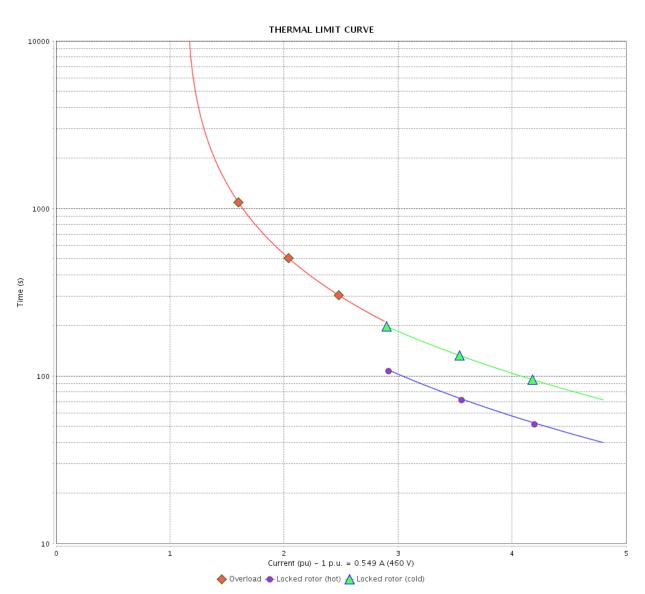
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Cooling Constant					
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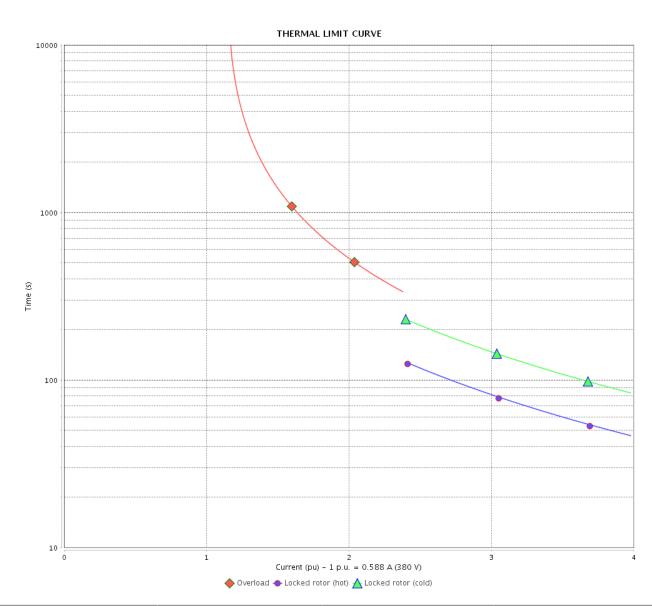
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Cooling constant

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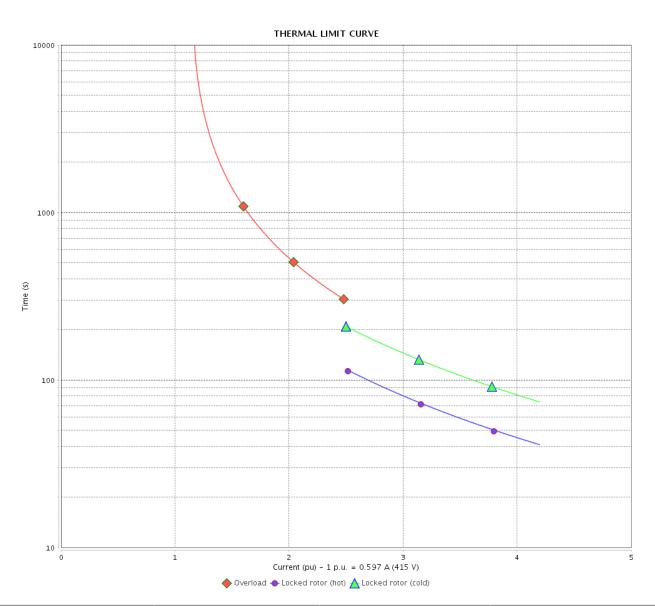
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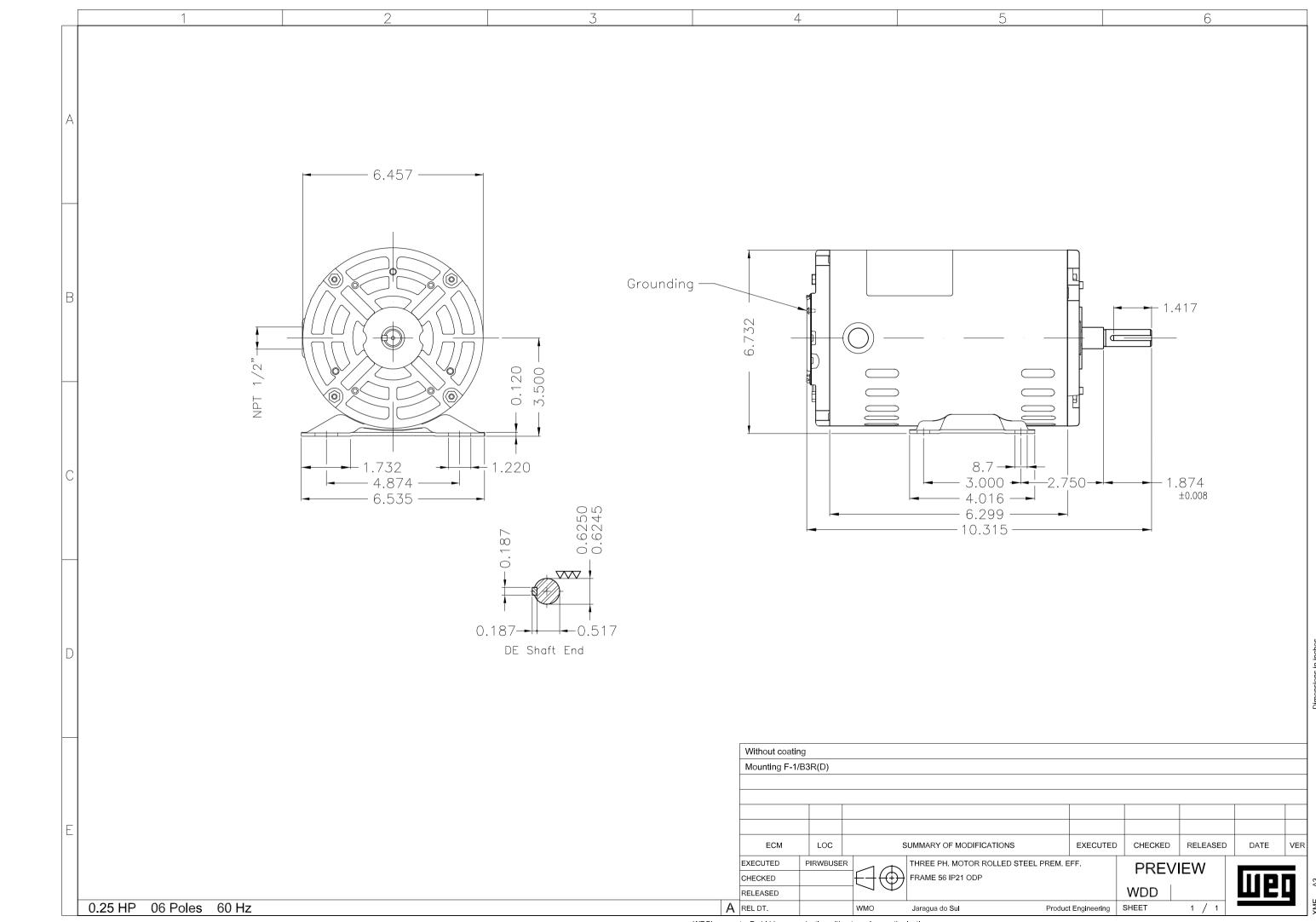
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N01.TO0IC0X0X 12808930 MADE IN MÉXICO



1.10/0.549 1.49/0.741

230/460 0.18

> CODE DES F AT 80K 2°04 900

NSC

0.25HP 1.18-1.15/0.588-0.611A SABLE @ 208V 1.21A LTERNATE RATING:

SF1.00 INC. 2

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 50 Hz 8202-ZZ

IEC 60034-1

SF1.35

190-220/380-415V

67.5%

AVG. F.L. H

ZPM 3FA 냃 쌆

EFF 85.1%

950RPM

ODE

8203-ZZ

牌

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2

MOBIL POLYREX EM

19

T2-WHT

13-ORG 1-BLU

T8-RED F6-GRY T4-YEL

> I7-PNK F5-BLK

T9-BRK RED

conformément aux codes électriques locaux et nationaux afin d'éviter tout



choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine