

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage Traction Motor

Customer : WEG EQUIP.ELETS.S.A

Product line :

Frame	: 160L	Temperature rise <sup>4</sup>	: 150 K
Output	: 80 kW (109 HP-cv)	Duty cycle	: S9 (Intermittent)
Peak power	: 121 kW	Ambient temperature	: -20 °C to +50 °C
Battery voltage (nominal)	: 355 V	Altitude	: 1000 m.a.s.l
Battery voltage (minimum)	: 313 V	Degree of protection	: IP66
Battery voltage (maximum)	: 410 V	Mounting	: B20
Rated current	: 241 A	Approx. weight <sup>3</sup>	: 190 kg
No load current	: 115 A	Noise level <sup>2</sup>	: -
Maximum current	: 370 A	Minimum switching frequency	: 8 kHz
Rated speed	: 2960 rpm	Cooling method	: IC71W - TEWC
Maximum speed	: 7500 rpm	Minimum water flow	: 20,0 L/min
Rated torque	: 258 Nm	Inlet water temperature	: 50,0 °C
Peak torque	: 519 Nm	Minimum water temperature rise	: 5,0 °C
Insulation class	: 200	Maximum pressure	: 2,0 bar
Moment of inertia (J)	: 0,2000 kgm <sup>2</sup>		

Output	50%	75%	100%	Load type: -
Efficiency (%)	90,2	91,4	92,5	Load torque: -
Power factor	0,62	0,74	0,83	Load inertia (J=GD <sup>2</sup> /4): -

Operation limits with inverter	Maximum peak voltage phase-to-phase <= 650 V
	dV/dt <= 5200 V/μs
	Rise time >= 0,1 μs

	Drive end	Non drive end
Bearing type	6209-ZZ-C3	6209-ZZ-C3
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYREA ESTER OIL (WT/ ENS)	

Notes:  
WTE500 VUC500 Traction Motor  
Water Cooled

Standards	Induction motor	: IEC 60349-2
	Permanent Magnet Motor	: IEC 60349-3

This revision replaces and cancels the previous one, which must be eliminated.

- (1) When viewed from the drive end.
- (2) Measured without tolerance
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At the rated point.

Rev.	Summary of changes	Performed	Checked	Date
Performed by	cschmitz			228024/2016
Checked by	gfelipe			Page Revision
Date	29/11/2017			1/1 4