

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase

Product code :

14282481

Catalog # :

12518OP3EFP405TS-W40

Frame : 404/5TS
Output : 125 HP
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 278/139 A
L. R. Amperes : 1807/904 A
LRC : 6.5x(Code G)
No load current : 76.0/38.0 A
Rated speed : 1775 rpm
Slip : 1.39 %
Rated torque : 370 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 21.5 sq.ft.lb
Design : B

Locked rotor time : 21s (cold) 12s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP23
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight³ : 1053 lb

Output	25%	50%	75%	100%				
Efficiency (%)	94.0	91.5	94.1	91.7	94.5	92.4	94.5	92.4
	92.2	92.8	92.4	93.0	93.0	93.6	93.0	93.6
Power Factor	0.54	0.61	0.76	0.81	0.84	0.85	0.86	0.87
	0.58	0.55	0.80	0.78	0.84	0.83	0.86	0.85

Foundation loads
Max. traction : 2554 lb
Max. compression : 3606 lb

	Drive end	Non drive end
Bearing type	6314 C3	6212 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	27 g	13 g
Lubricant type	Mobil Polyrex EM	

Notes:

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		Page 1 / 1		
Checked by				
Date	26/03/2024			
		Revision		