

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 14367175
Catalog # : 02518OT3E284T-W40

Frame : 284T	Cooling method : IC01 - ODP
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation ¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight ² : 350 lb
Protection degree : IP23	Moment of inertia (J) : 3.71 sq.ft.lb
Design : B	

Output [HP]	25	20	20	20
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	59.0/29.5	29.5	28.7	28.0
L. R. Amperes [A]	389/195	198	192	210
LRC [A]	6.6x(Code G)	6.7x(Code H)	6.7x(Code H)	7.5x(Code J)
No load current [A]	22.0/11.0	12.1	13.1	13.9
Rated speed [RPM]	1770	1470	1475	1475
Slip [%]	1.67	2.00	1.67	1.67
Rated torque [ft.lb]	74.2	71.4	71.2	71.2
Locked rotor torque [%]	270	229	250	270
Breakdown torque [%]	280	250	290	300
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	32s (cold) 18s (hot)	37s (cold) 21s (hot)	30s (cold) 17s (hot)
Noise level ²	64.0 dB(A)			
Efficiency (%)	25%	92.8	91.5	91.5
	50%	93.0	91.7	91.7
	75%	93.6	92.1	92.1
	100%	93.6	92.1	92.1
Power Factor	25%	0.45	0.43	0.39
	50%	0.69	0.69	0.65
	75%	0.80	0.79	0.77
	100%	0.84	0.84	0.82

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6311 Z C3	6211 Z C3	Max. traction
Sealing :	Without	Without	Max. compression
	Bearing Seal	Bearing Seal	
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	18 g	11 g	
Lubricant type :	Mobil Polyrex EM		

Notes
USABLE @208V 65.2A SF 1.15 SFA 75.0A

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				
Date	11/04/2020			

Page 1 / 1
Revision