

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line : Multimounting IE3 Three-Phase		Product code : 13984008		
		Catalog # : 00156ET3WAL90SFF-W22		
Frame : 90S/L	Insulation class : F	Cooling method : IC411 - TEFC	Mounting : B35L(E)	
Duty cycle : 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 ² : 40.8 lb	Moment of inertia (J) : 0.0475 sq.ft.lb	
Design : N				
Output [HP]	2	2	2	
Poles	2	2	2	
Frequency [Hz]	50	50	60	
Rated voltage [V]	220/380	240/415	460	
Rated current [A]	5.56/3.22	5.50/3.18	2.75	
L. R. Amperes [A]	42.3/24.5	44.0/25.4	25.9	
LRC [A]	7.6	8.0	9.4	
No load current [A]	2.47/1.43	3.11/1.80	1.50	
Rated speed [RPM]	2870	2895	3505	
Slip [%]	4.33	3.50	2.64	
Rated torque [ft.lb]	3.66	3.63	3.00	
Locked rotor torque [%]	220	260	290	
Breakdown torque [%]	250	300	360	
Service factor	1.25	1.25	1.25	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	27s (cold) 0s (hot)	27s (cold) 0s (hot)	28s (cold) 0s (hot)	
Noise level ²	62.0 dB(A)	62.0 dB(A)	68.0 dB(A)	
Efficiency (%)	25%	81.0	80.5	79.4
	50%	82.0	81.5	81.0
	75%	83.5	83.5	84.0
	100%	84.2	84.2	85.5
Power Factor	25%	0.42	0.33	0.36
	50%	0.67	0.57	0.61
	75%	0.78	0.70	0.73
	100%	0.84	0.78	0.80
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1 (0,9;1,0)	17.1	17.1	15.5
	P2 (0,5;1,0)	13.1	13.1	11.9
	P3 (0,25;1,0)	13.4	13.4	12.1
	P4 (0,9;0,5)	10.4	10.4	9.4
	P5 (0,5;0,5)	6.4	6.4	5.8
	P6 (0,5;0,25)	5.0	5.0	4.5
	P7 (0,25;0,25)	3.4	3.4	3.1
Bearing type	Drive end : 6205 ZZ	Non drive end : 6204 ZZ	Foundation loads	
Sealing	: V'Ring	: V'Ring	Max. traction	: 73 lb
Lubrication interval	: -	: -	Max. compression	: 114 lb
Lubricant amount	: -	: -		
Lubricant type	: Mobil Polyrex EM			
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).		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
Performed by				
Checked by			Page	Revision
Date	10/10/2023		1 / 2	

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Notes

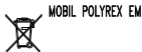
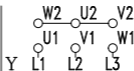
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WEG Premium**W21 Tru-metric**

MODEL 00156ET3WAL90SFF-W22

Electric Motor
Severe DutyClass Div 2, Gr A, B, C and D - T3C
Class Zone 2, IIC - T3C
Class II, Div 2, Gr F - T3C**UK CA EAC CE**FOR SAFE AREA
Mod. TE01A0X0\$
CC029A
Type ETPH3 Fr. AL90S/L DUTY CONT. IP55 DES N Code M IEC 60034-1
41lb 1000m.a.s.l. INS cl. F DT 80K AMB 40°C SF 1.25

V		Hz	kW	HP	RPM	A		SFA		PF	IE code	NEMA NOM EFF η 100%/75%/50%
-	460Y	60	1.5	2.0	3505	-	2.75	-	3.44	0.80	IE3	85.5/84.0/81.0
220Δ	380Y	50	1.5	2.0	2870	5.56	3.22	5.56	3.22	0.84	IE3	84.2/83.5/82.0
240Δ	415Y	50	1.5	2.0	2895	5.50	3.18	5.50	3.18	0.78	IE3	84.2/83.5/81.5
-	-	-	-	-	-	-	-	-	-	-	-	-

MADE IN BRAZIL
13984008