## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

	: Multimounting IE3 Three-Phase		-Phase	Product code : Catalog # :		13984008 00156ET3WAL90SFF- W22		
Frame	ne : 90S/L			Cooling method		: IC411 - TEFC		
		: F			Mounting		: B35L(E)	
Duty cycle		: S1		Rotation <sup>1</sup>		: Both (CW and CCW)		
Ambient temperature			: -20°C to +40°C		Starting method		: Direct On Line	
Altitude		: 1000 m.a.s.l.		Approx. weight <sup>3</sup>		: 40.8 lb		
Protection degree Design		: IP55 : N		Moment of	of inertia (J)	: 0.0475 sq.	ft.lb	
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		
. R. Amperes [A]		42.3/24.5		44.0/25.4		25.9		
_RC [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 torqu		220		260		290		
Breakdown torque	[%]	250		300		360		
Service factor		1.25		1.25		1.25		
Temperature rise		80 K		80 K			80 K	
_ocked rotor time		27s (cold) 0s (hot		27s (cold) 0s (hot)		28s (cold) 0s (hot)		
Noise level <sup>2</sup>		62.0 dB(A)		62.0 dB(A)			68.0 dB(A)	
	25%	81.0		80.5			79.4	
Efficiency (%)	50%	82.0		81.5			81.0	
Efficiency (%)	75%	83.5			83.5		84.0	
	100%	84.2		84.2			85.5	
	25%	0.42		0.33		0.36		
Power Factor	50%	0.67		0.57		0.61		
	75% 100%	0.78		0.70 0.78		0.73		
							0.80	
Losses at normati	ve operating	points (speed;torqu				i	15 5	
		P1 (0,9;1,0)	17		17.1		15.5	
		P2 (0,5;1,0) P3 (0,25;1,0)	13		13.1		11.9 12.1	
		1 3 10 23 1 01		.+	IJ.4			
			10	4	10 /			
Losses (%)		P4 (0,9;0,5)	10		10.4		9.4	
Losses (%)		P4 (0,9;0,5) P5 (0,5;0,5)	6.4	4	6.4		9.4 5.8	
Losses (%)		P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25)	6.4 5.0	4 0	6.4 5.0		9.4 5.8 4.5	
Losses (%)		P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25)	6.4 5.1 3.4	4 0	6.4 5.0 3.4		9.4 5.8	
		P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25)	6.4 5.0	4 0 4 Foundatio	6.4 5.0 3.4 n loads	: 73 lb	9.4 5.8 4.5	
Bearing type		P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) Drive end : 6205 ZZ	6. 5. 3. on drive end 6204 ZZ	4 0 4 Foundatio Max. tract	6.4 5.0 3.4 n loads	: 73 lb : 114 lb	9.4 5.8 4.5	
	F	P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) Drive end No	6. 5.0 3.4 on drive end	4 0 4 Foundatio	6.4 5.0 3.4 n loads	: 73 lb : 114 lb	9.4 5.8 4.5	
Bearing type Sealing	/al	P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) Drive end : 6205 ZZ	6. 5. 3. on drive end 6204 ZZ	4 0 4 Foundatio Max. tract	6.4 5.0 3.4 n loads		9.4 5.8 4.5	
Bearing type Sealing Lubrication interv	/al	P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) Drive end : 6205 ZZ	6. 5. 3. on drive end 6204 ZZ V'Ring - -	4 0 4 Foundatio Max. tract	6.4 5.0 3.4 n loads		9.4 5.8 4.5	
Bearing type Sealing Lubrication interv Lubricant amoun	/al	P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) <u>Drive end</u> <u>No</u> : 6205 ZZ : V'Ring : - : -	6. 5. 3. on drive end 6204 ZZ V'Ring - -	4 0 4 Foundatio Max. tract	6.4 5.0 3.4 n loads		9.4 5.8 4.5	
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type This revision repla must be eliminate (1) Looking the m	/al t aces and can d. otor from the	P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) <u>Drive end</u> <u>Na</u> : 6205 ZZ : V'Ring : - : V'Ring : - : Mobil Poly ncel the previous on e shaft end.	6. 5. 3. on drive end 6204 ZZ V'Ring - rex EM	4 0 4 Foundatio Max. tract Max. com	6.4 5.0 3.4 n loads	: 114 lb	9.4 5.8 4.5 3.1	
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type This revision repla must be eliminate (1) Looking the m (2) Measured at 1	/al t aces and can d. otor from the	P4 (0,9;0,5)   P5 (0,5;0,5)   P6 (0,5;0,25)   P7 (0,25;0,25)   Drive end   Mobil Poly   ·	6. 5. 3. <u>on drive end</u> 6204 ZZ V'Ring - - rex EM e, which ).	4 6 Foundatio Max. tract Max. com These are power sup	6.4 5.0 3.4 n loads ion pression	: 114 lb pased on tests wi tolerances stipu	9.4 5.8 4.5 3.1 ith sinusoidal ilated in NEMA	
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type This revision repla must be eliminate (1) Looking the m	/al t aces and can d. otor from the	P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) <u>Drive end</u> <u>Na</u> : 6205 ZZ : V'Ring : - : V'Ring : - : Mobil Poly ncel the previous on e shaft end.	6. 5. 3. <u>on drive end</u> 6204 ZZ V'Ring - - rex EM e, which ).	4 6 Foundatio Max. tract Max. com These are power sup	6.4 5.0 3.4 n loads ion pression	: 114 lb	9.4 5.8 4.5 3.1	
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type This revision repla must be eliminate (1) Looking the m (2) Measured at 1 Rev.	/al t aces and can d. otor from the	P4 (0,9;0,5)   P5 (0,5;0,5)   P6 (0,5;0,25)   P7 (0,25;0,25)   Drive end   Mobil Poly   ·	6. 5. 3. <u>on drive end</u> 6204 ZZ V'Ring - - rex EM e, which ).	4 6 Foundatio Max. tract Max. com These are power sup	6.4 5.0 3.4 n loads ion pression	: 114 lb pased on tests wi tolerances stipu	9.4 5.8 4.5 3.1 ith sinusoidal ilated in NEMA	
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Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type This revision repla must be eliminate (1) Looking the m (2) Measured at 1 Rev.	/al t aces and can d. otor from the	P4 (0,9;0,5)   P5 (0,5;0,5)   P6 (0,5;0,25)   P7 (0,25;0,25)   Drive end   Mobil Poly   ·	6. 5. 3. <u>on drive end</u> 6204 ZZ V'Ring - - rex EM e, which ).	4 6 Foundatio Max. tract Max. com These are power sup	6.4 5.0 3.4 n loads ion pression	: 114 lb pased on tests wi tolerances stipu	9.4 5.8 4.5 3.1 ith sinusoidal ilated in NEMA	

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## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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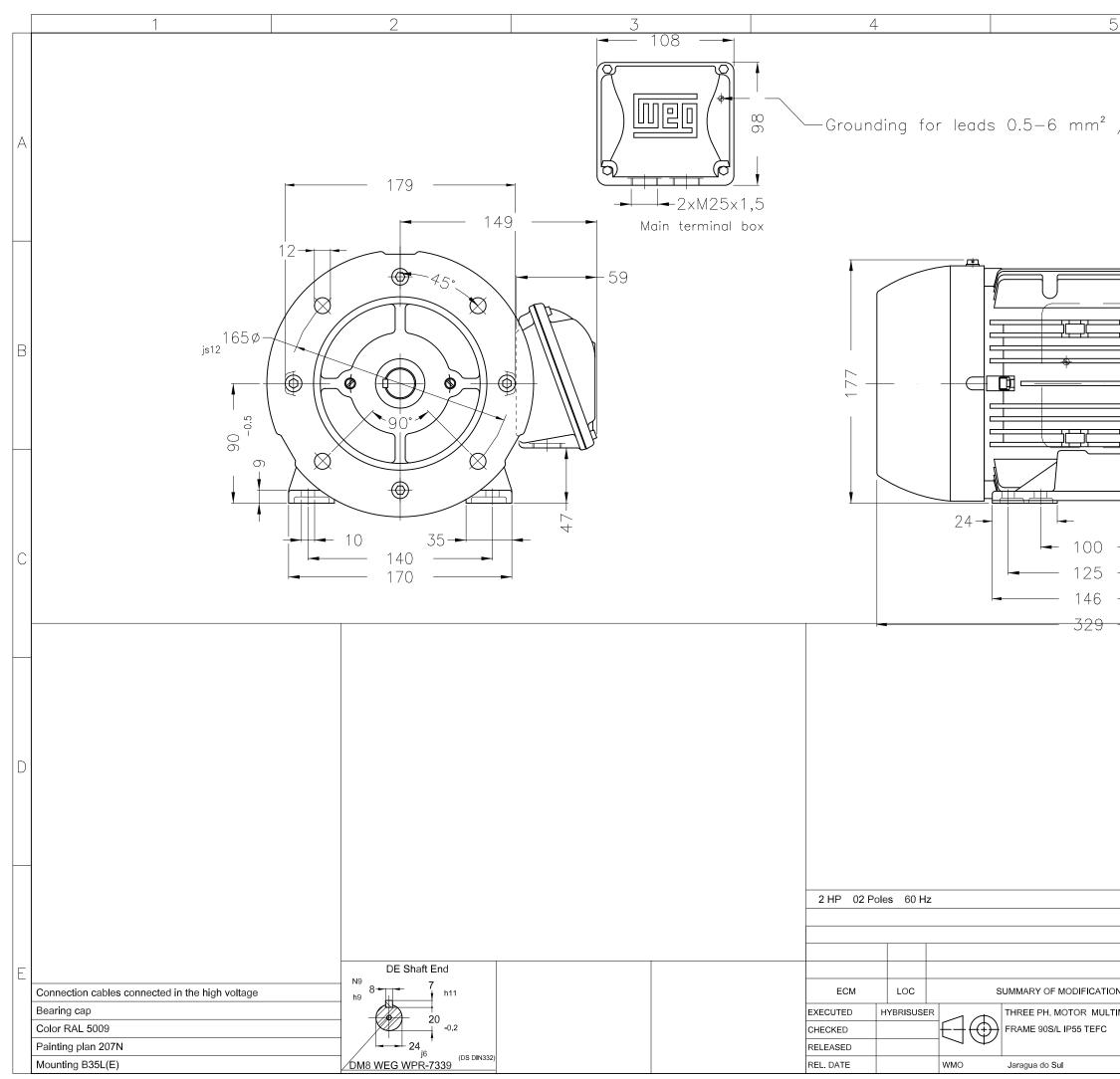
Customer

Notes

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/10/2023			2/2	

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Proproducer Class I, DIV Z, Gr A, D, C u Class I, Zone 2, IIC - 13C Class II, Div 2, Gr F - 13C . C and D - T3C Tru-matric Eterny Verfler 4008 MODEL 00156FT3WAL90SFF-W22 BRAZI Electric Motor FOR SAFE AREA MADE IN 13984 Mod.TEOIA0X0\$ Severe Duty CC0294 Type ET PH3 Fr. AL90S/L DUTY CONT. IP55 DES N IEC 60034-1 Code M 1000m.a.s.l. INS cl. F 80K AMB 40°C 1.25 41lb DT SF RFF Hz HP RPM SFA code η 100%/75%/50% 460Y 60 2.0 3505 2.75 3.44 IE3 85.5/84.0/81.0 1.5 0.80 84.2/83.5/82.0 2201 380Y 50 1.5 2.0 2870 5.56 3.22 5.56 3.22 0.84 IE3 240**Δ** 415Y 50 1.5 2.0 2895 5.50 3.18 5.50 3.18 0.78 IE3 84.2/83.5/81.5 + 6205-77 W2 \_U2 U2 ٧2 V2 ۲<mark>.</mark> 6204-77 ر ۷۱ ۱2 Ĭu1 Í V 1 W1 0 L3 MOBIL POLYREX EM ٨