## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



## Customer

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Product line		: Multimounting High	-		13982686 .1836EP3EAL63-W22		
Insulation class    : F    Mounting    : B31_ED      Ambient temperature    : 20°C to +40°C    Starting method    : Direct On Line      Antitude    : 1000 m.s.l.    Protection degree    : Direct On Line      Protection degree    : IPS5    0.25    0.25    0.25      Duput [HP]    0.25    0.25    0.25    0.25      Origes    2    2    2    2    2      Grequency [H2]    60    50    50    50    50      Tated ourset [A]    0.9900.476    0.503    0.513    0.534    .      R. Amperes [A]    4.752.37    2.21    2.26    2.35    .      Ated ourset [RM]    310    2700    2760    .    .      Startide speed [RPM]    300    229    .    .    .      Started torque [Kb]    0.301    .    .    .    .      Ate orque [RM]    310    .    .    .    .    .      Big [Si]    8.06    10.00			Inree-Phase					
Protection degree    : IN    Moment of inertia (J)    : 0.0029 sq.ft.lb      Dutput [HP]    0.25    0.25    0.25    0.25      Frequency [Hz]    60    50    50    50      Tergeuncy [Hz]    60    50    50    50      Stated vortent [A]    0.9500/6475    0.503    0.513    0.554      R. Amperes [A]    4.75/2.37    2.21    2.26    2.35      R. Amperes [A]    0.75200.360    0.360    0.410    0.450      Acided speed [RPM]    3310    22700    22760    2260      Steled speed [RPM]    0.391    0.480    0.474    0.469      Oxcked rotor torque [%]    300    223    2264    280      Stervice factor    1.15    1.00    1.00    1.00    1.00      Stervice factor    1.15    1.00    1.00    1.00    1.00    55.0    0.66.0    0.60.0    2.0    66.0    66.0    66.0    66.0    66.0    66.0    66.0    66.0    66.0    <	Insulation class Duty cycle Ambient temperature		: F : S1 : -20°C to +40°C		Mounting Rotation <sup>1</sup> Starting method		: B3L(E) : Both (CW and CCW) : Direct On Line	
Dutput [HP]    0.25	Protection degree		: IP55					
Opes    2    2    2    2    2    2      Tengency [H2]    60    50    50    50    50      Rated voltage [V]    230/460    380    400    415      Rated untage [V]    0.950/0.475    0.503    0.613    0.534      R. Amperes [A]    4.752.37    2.21    2.26    2.35      RC [A]    5.0    4.4    4.4    4.4    4.4      Value (M1)    0.700.0360    0.360    0.410    0.450      Stated speed [RPM]    3310    2700    2730    2760      Stated speed [RPM]    3310    220    250    280      Stated speed [RPM]    310    229    254    280      Stated speed [RPM]    310    220    250    280      Stated speed [RPM]    310    220    250    280      State speed [RPM]    310    229    254    280      State speed for time    368 (cold) 20s (hot)    368 (cold) 20s (hot)    58.0 (B(A)    52.0 (B(A)	•			1	0.05		05	0.05
Frequency [Hz]    60    50    50    50    50      Rated voltage [V]    230/460    380    400    415      Rated current [A]    0.950/0.475    0.503    0.513    0.534      R. Amperes [A]    4.76/2.37    2.21    2.26    2.35      R.C [A]    0.720/0.360    0.360    0.44    4.4    4.4      4.4    0.44    4.4    4.4    4.4      4.16    0.420/0.360    0.360    0.410    0.450      ataled speed [RPM]    3310    2700    2730    2760      Stated torque [ft.b]    0.391    0.480    0.474    0.489      Oxcked rotor torque [%]    300    220    250    280      Service factor    1.15    1.00    1.00    1.00      Fervice factor    1.15    1.00    1.00    1.00      Cocked rotor time    365 (coid) 20s (hot)								
Safed voltage [V]    230/460    380    400    415      Sated current [A]    0.950/0475    0.603    0.513    0.534      R. Amperes [A]    4.75/2.37    2.21    2.26    2.35      R.C [A]    5.0    4.4    4.4    4.4    4.4      Valued speed [RPM]    0.720/0.360    0.360    0.410    0.450      Sated speed [RPM]    0.310    2700    2730    2760    310      Sated speed [RPM]    0.331    0.480    0.474    0.469    0.054      Sated torque [%]    300    220    250    280    326      Service factor    1.15    1.00    1.00    1.00    1.00      Generature [%]    306    68 (cold) 20s (hot)    366 (cold) 20s (hot)    360 (cold)			_	_			-	
Stated current [A]    0.950/0.475    0.503    0.513    0.534      .R. Amperes [A]    4.75/2.37    2.21    2.26    2.35      .R. C[A]    0.720/0.360    0.360    0.44    4.4    4.4      4.4    4.4    4.4    4.4    4.4      4.ated speed [RPM]    3310    2700    2730    2760      stated speed [RPM]    8.06    10.00    9.00    8.00      stated speed [RPM]    3.310    220    250    280      Service factor    1.15    1.00    1.00    1.00      Greakdown torque [%]    300    229    254    280      Service factor    1.15    1.00    1.00    1.00      Isocked rotor torque [%]    365 (cold) 20s (hot) 36s (								
R. Amperes [A]    4.76/2.37    2.21    2.26    2.35      RC [A]    5.0    4.4    4.4    4.4      Volad current [A]    0.7200.360    0.360    0.410    0.440      Value Speed [RPM]    3310    2700    2730    2760      Value Speed [RPM]    0.391    0.480    0.474    0.469      Ocket Orb torgue [%]    300    220    250    280      Stated torque [%]    310    229    254    280      Stated torque [%]    310    229    254    280      State dropue [%]    300    220    250    280      Value State State    1.15    1.00    1.00    1.00    1.00      Greenter ise    80 K    80 K    80 K    80 K    20 dB(A)    52.0 dB(A)    52.								
RC [A]    5.0    4.4    4.4    4.4      iso load current [A]    0.720/0.360    0.360    0.410    0.450      ated speed [RPM]    3310    2700    2730    2760      Stip [%]    8.06    10.00    9.00    8.00      ated torque [%]    0.391    0.480    0.474    0.469      ocked rotor torque [%]    310    229    254    280      ated torque [%]    310    229    254    280      areadown torque [%]    310    229    254    280      areadown torque [%]    310    229    254    280      areadown torque [%]    365 (cold) 205 (hot)    36 (cold								
No load current [A]    0.7200.360    0.360    0.410    0.450      Rated speed [RPM]    3310    27700    2730    2760      Rated speed [RPM]    0.391    0.480    0.474    0.469      Stated torque [%]    300    220    250    280      Stated torque [%]    310    229    254    280      Ferrice factor    1.15    1.00    1.00    1.00      Ferrice factor    1.15    52.0 dB(A)								
Bated speed [RPM]    3310    2700    2730    2760      Slip [%]    8.06    10.00    9.00    8.00      Slip [%]    8.06    10.00    9.00    8.00      Safed torque [%]    300    220    250    280      cocked rotor torque [%]    310    229    254    280      Service factor    1.15    1.00    1.00    1.00      Femperature rise    80 K    80 K    80 K    80 K    80 K      Cocked rotor time    365 (coid) 20s (hot)    365 (co								
Dip [%]    8.06    10.00    9.00    8.00      Rated torque [%]    0.391    0.480    0.474    0.469      Occked rotor torque [%]    310    229    254    280      Breakdown torque [%]    300    220    100    1.00    1.00      Breakdown torque [%]    365 (coid) 20s (hot)    366 (coid) 20s (hot)    365 (coid) 20s (hot) <td< td=""><td colspan="2"></td><td colspan="2"></td><td></td><td></td><td></td><td></td></td<>								
Rated torque [ft.lb]    0.391    0.480    0.474    0.469      cocked rotor torque [%]    300    220    250    280      previce factor    1.15    1.00    1.00    1.00      rememature rise    80 K    80 K    80 K    80 K    80 K      cocked rotor time    36s (coid) 20s (hot)		<u>.</u>						
cocked rotor torque [%]    300    220    250    280      Breakdown torque [%]    310    229    254    280      Bervice factor    1.15    1.00    1.00    1.00    1.00      Ierrivice factor    365 (cold) 20s (hot)    365 (cold) 20s (hot) <td colspan="2"></td> <td>1</td> <td colspan="2"></td> <td></td> <td></td> <td></td>			1					
Streakdown torque [%]    310    229    254    280      Service factor    1.15    1.00    1.00    1.00    1.00      Gemperature rise    80 K    80 K    80 K    360 K    0.00    205 (hot)    365 (cold) 205 (hot)								
Service factor    1.15    1.00    1.00    1.00    1.00      fermperature rise    80 K    8								
Temperature rise    80 K    80 A	Service factor							
Jocked rotor time    36s (cold) 20s (hot)    36s (cold) 2	Temperature rise							
Noise level*    56.0 dB(A)    52.0 dB(A)    57.7    55.4    62.0    66.0    66.0    66.0    66.0    66.0    66.0    66.0    66.0    66.0    66.0    67.0    60.0    70.7    70    70    70    70    70    70    70    70    <	Locked rotor time							
25%    55.4    59.9    57.7    55.4      Efficiency (%)    75%    65.0    66.0    65.0    64.0      75%    65.0    66.0    65.0    64.0      100%    68.0    67.5    67.0      25%    0.28    0.33    0.29    0.27      power Factor    75%    0.60    0.70    0.65    0.60      75%    0.60    0.70    0.65    0.60    0.70      Bearing type    :    6201 ZZ    6201 ZZ    6201 ZZ    Max. traction    : 16 lb      Lubrication interval    :    -    -    -    Lubrication interval    : -    -      Lubricant mount    :    -    -    -    -    -    -      Lubricant reglaces 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	Noise level <sup>2</sup>							
Efficiency (%)    50%    58.0    62.0    60.0    58.0      75%    65.0    66.0    65.0    64.0      100%    68.0    67.5    67.0      Power Factor    25%    0.28    0.33    0.29    0.27      50%    0.48    0.58    0.53    0.48      75%    0.60    0.70    0.65    0.60      100%    0.70    0.80    0.75    0.70      Bearing type    6201 ZZ    6201 ZZ    6201 ZZ    6201 ZZ    6201 ZZ      Sealing    Oil Seal    Oil Seal    Oil Seal    Oil Seal    Max. traction    : 16 lb      Max. compression    : 16 lb    Max. compression    : 16 lb    Max. compression    : 16 lb      Notes    Mobil Polyrex EM    Mobil Polyrex EM    Mcs.    MG-1.    MG-1.      Vi Looking the motor from the shaft end.    (2)    Maxured at 1 m and with tolerance of +3dB(A).    MG-1.    MG-1.      (2) Mazured at 1 m and with tolerance of +3dB(A).    (3) Approximate weight subject to changes after manufacturi		25%						
100%    05.0 <th< td=""><td></td><td></td><td></td><td></td><td>60</td><td>0.0</td><td></td></th<>						60	0.0	
100%    68.0    67.5    67.0      Power Factor    25%    0.28    0.33    0.29    0.27      50%    0.48    0.58    0.53    0.48      75%    0.60    0.70    0.65    0.60      100%    0.70    0.80    0.75    0.70      Bearing type    :    6201 ZZ    6201 ZZ    Max. traction    : 16 lb      Sealing    :    Oil Seal    Oil Seal    Oil Seal    Max. compression    : 16 lb      Lubricant amount    :    -    -    -    -    -      Lubricant type    :    Mobil Polyrex EM    Max. compression    : 16 lb    Max. traction    : 16 lb      Notes    -    -    -    -    -    -    -      10 Lobricant amount    :    -    -    -    -    -      10 Loking the motor from the shaft end.    (2) Measured at 1m and with tolerance of +3dB(A).    -    -    -    -      (3) Approximate weight subject to changes after m			65.0		66.0			64.0
Power Factor    25%    0.28    0.33    0.29    0.27      50%    0.48    0.58    0.53    0.48      75%    0.60    0.70    0.65    0.60      100%    0.70    0.80    0.75    0.70      Bearing type    :    6201 ZZ    6201 ZZ    6201 ZZ      Sealing    :    Oil Seal    Oil Seal    Max. traction    : 16 lb      Lubrication interval    :    -    -    Lubrication interval    :    -      Lubrication interval    :    -    -    -    Lubrication interval    :    -      Notes    Mobil Polyrex EM    Mobil Polyrex EM    Max. traction    : 16 lb    Max. traction      Notes    :    :    -    -    .    .    .      10 Looking the motor from the shaft end.    :    :    .    .    .    .    .      (2) Measured at 1m and with tolerance of +3dB(A).    :    .    .    .    .    .    . <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Power Factor  50%  0.48  0.58  0.53  0.48    75%  0.60  0.70  0.65  0.60    100%  0.70  0.80  0.75  0.70    Bearing type  :  6201 ZZ  6201 ZZ  6201 ZZ  Max. traction  :  16 lb    Sealing  :  Oil Seal  Oil Seal  Oil Seal  Max. compression  :  16 lb    Lubricant amount  :  -  -  -  -  Lubricant type  Mobil Polyrex EM    Notes  Mobil Polyrex EM  Most error of the shaft end.  These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.    (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.  .  .  .  .  .  .    Performed by	Power Factor							
Power Factor  75%  0.60  0.70  0.65  0.60    100%  0.70  0.80  0.75  0.70    Bearing type  :  6201 ZZ  6201 ZZ  6201 ZZ  Max. traction  : 16 lb    Sealing  :  Oil Seal  Oil Seal  Oil Seal  Max. traction  : 16 lb    Lubrication interval  :  -  -  -  -  -    Lubricant amount  :  -  -  -  -  -    Lubricant type  :  Mobil Polyrex EM  Max. compression  : 16 lb  -    Notes  -  -  -  -  -  -  -    This revision replaces and cancel the previous one, which must be eliminated.  These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.    (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.  -  -  -  -  -  -    Performe			1			0.5	53	
Drive end Bearing type  Drive end 6201 ZZ  Non drive end 6201 ZZ  Foundation loads Max. traction    Sealing  Oil Seal  Oil Seal  Max. traction  : 16 lb    Lubrication interval  -  -  -    Lubrication interval  -  -  -    Lubrication type  Mobil Polyrex EM  Max. compression  : 16 lb    Notes  Mobil Polyrex EM  Motes  These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (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.  MG-1.  MG-1.    Rev.  Changes Summary  Performed  Checked  Date    Performed by  Checked by  Page  Revision		75%	0.60		0.70	0.0	65	0.60
Bearing type  :  6201 ZZ  6201 ZZ  Max. traction  ::  16 lb    Sealing  :  Oil Seal  Oil Seal  Max. compression  ::  16 lb    Lubrication interval  :  -  -  -  -  16 lb    Lubricant amount  :  -  -  -  -  -  -    Lubricant type  :  Mobil Polyrex EM  Max. traction  ::  16 lb  -    Notes  :  -<		100%	0.70		0.80	0.1	75	0.70
Notes  This revision replaces and cancel the previous one, which must be eliminated.  These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end.    (2) Measured at 1m and with tolerance of +3dB(A).  MG-1.    (3) Approximate weight subject to changes after manufacturing process.  MG-1.    (4) At 100% of full load.  Performed  Checked  Date    Performed by  Page  Revision	Sealing Lubrication interval Lubricant amount		: 6201 ZZ 62 : Oil Seal Oi : - : -	6201 ZZ 6201 ZZ Max. tract Oil Seal Oil Seal Max. com		ction : 16 lb		
Manufacturing process.  Performed  Checked  Date    Rev.  Changes Summary  Performed  Checked  Date    Performed by  Page  Revision	must be eliminate (1) Looking the m (2) Measured at 1	d. otor from the m and with t	e shaft end. olerance of +3dB(A).	hich	power supp			
Checked by Page Revision	manufacturing pro (4) At 100% of full	ocess.		,		Performed	Checked	d Date
Checked by Page Revision								
	Performed by							
Date 22/01/2018 1 / 1	Checked by						Page	Revision
	Date	22/01/201	8				1/1	

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