## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Multimounting High Efficiency Product code: 13982726

Three-Phase

Catalog #: .2536EP3EAL63-W22

Frame : 63 Cooling method : IC411 - TEFC

Insulation class : F Mounting : B3L(E) Duty cycle : S1 Rotation<sup>1</sup> : Both (CW and CCW)

: -20°C to +40°C Ambient temperature Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 0.0 lb

: IP55 Moment of inertia (J) : 0.0038 sq.ft.lb Protection degree

Design   Section   Court   C	Protection degree		: IP55	Moment of Inc	ivioment of inertia (J) : 0.0038 sq.π.ib			
Poles	Design		: N					
Frequency [Hz]         60         50         50         50           Rated voltage [V]         230/460         380         400         415           Rated current [A]         1.26/0.628         0.682         0.682         0.694           L. R. Amperes [A]         6.78/3.39         3.14         3.14         3.19           LRC [A]         5.4         4.6         4.6         4.6           No load current [A]         0.900/0.450         0.450         0.500         0.550           Rated speed [RPM]         3350         2700         2730         2760           Slip [%]         6.94         10.00         9.00         8.00           Rated torque [ft.lb]         0.510         0.633         0.626         0.619           Locked rotor torque [%]         330         250         265         280           Breakdown torque [%]         340         260         280         300           Service factor         1.15         1.00         1.00         1.00           Temperature rise         80 K         80 K         80 K         80 K           Locked rotor time         39s (cold) 22s (hot)         39s (cold) 22s (hot)         39s (cold) 22s (hot)           Noise level²	Output [HP]		0.33	0.33	0.33	0.33		
Rated voltage [V]         230/460         380         400         415           Rated current [A]         1.26/0.628         0.682         0.682         0.694           L. R. Amperes [A]         6.78/3.39         3.14         3.14         3.19           LRC [A]         5.4         4.6         4.6         4.6           No load current [A]         0.900/0.450         0.450         0.500         0.550           Rated speed [RPM]         3350         2700         2730         2760           Slip [%]         6.94         10.00         9.00         8.00           Rated torque [ft.lb]         0.510         0.633         0.626         0.619           Locked rotor torque [%]         340         260         280         300           Service factor         1.15         1.00         1.00         1.00           Service factor         1.15         1.00         1.00         1.00           Temperature rise         80 K         80 K         80 K         80 K           Locked rotor time         39s (cold) 22s (hot)         39s (cold) 22s (hot)         39s (cold) 22s (hot)         39s (cold) 22s (hot)           Noise level²         56.0 dB(A)         52.0 dB(A)         52.0 dB(A)	Poles		2	2	2	_		
Rated current [A]         1.26/0.628         0.682         0.682         0.682           L. R. Amperes [A]         6.78/3.39         3.14         3.14         3.19           LRC [A]         5.4         4.6         4.6         4.6           No load current [A]         0.900/0.450         0.450         0.500         0.550           Rated speed [RPM]         3350         2700         2730         2760           Slip [%]         6.94         10.00         9.00         8.00           Rated torque [ft.lb]         0.510         0.633         0.626         0.619           Locked rotor torque [%]         330         250         265         280           Breakdown torque [%]         340         260         280         300           Service factor         1.15         1.00         1.00         1.00           Temperature rise         80 K         80 K         80 K         80 K           Locked rotor time         39s (cold) 22s (hot)         39s (cold) 22s (hot)         39s (cold) 22s (hot)         39s (cold) 22s (hot)           Noise level²         50%         62.0         65.0         64.0         63.0           F5%         67.0         68.0         67.5         67	Frequency [Hz]			50	50	50		
L. R. Amperes [A] 6.78/3.39 3.14 3.14 3.19  LRC [A] 5.4 4.6 4.6 4.6 4.6  No load current [A] 0.900/0.450 0.450 0.500 0.550  Rated speed [RPM] 3350 2700 2730 2760  Slip [%] 6.94 10.00 9.00 8.00  Rated torque [ft.lb] 0.510 0.633 0.626 0.619  Locked rotor torque [%] 330 250 265 280  Breakdown torque [%] 340 260 280 300  Service factor 1.15 1.00 1.00 1.00  Temperature rise 80 K 80 K 80 K 80 K  Locked rotor time 39s (cold) 22s (hot) 39s (cold) 22s (hot) 39s (cold) 22s (hot)  Noise level² 56.0 dB(A) 52.0 dB(A) 52.0 dB(A) 52.0 dB(A)  Efficiency (%) 50% 62.0 65.0 64.0 63.0  Power Factor 50% 0.56 0.52 0.47  Power Factor 50% 0.62 0.70 0.66 0.61	Rated voltage [V]		230/460					
LRC [A]         5.4         4.6         4.6         4.6         4.6           No load current [A]         0.900/0.450         0.450         0.500         0.550           Rated speed [RPM]         3350         2700         2730         2760           Slip [%]         6.94         10.00         9.00         8.00           Rated torque [ft.lb]         0.510         0.633         0.626         0.619           Locked rotor torque [%]         330         250         265         280           Breakdown torque [%]         340         260         280         300           Service factor         1.15         1.00         1.00         1.00           Temperature rise         80 K         8	Rated current [A]		1.26/0.628	0.682	0.682	0.694		
No load current [A]         0.900/0.450         0.450         0.500         0.550           Rated speed [RPM]         3350         2700         2730         2760           Slip [%]         6.94         10.00         9.00         8.00           Rated torque [ft.lb]         0.510         0.633         0.626         0.619           Locked rotor torque [%]         330         250         265         280           Breakdown torque [%]         340         260         280         300           Service factor         1.15         1.00         1.00         1.00           Temperature rise         80 K	L. R. Amperes [A]		6.78/3.39	3.14	3.14	3.19		
Rated speed [RPM]         3350         2700         2730         2760           Slip [%]         6.94         10.00         9.00         8.00           Rated torque [ft.lb]         0.510         0.633         0.626         0.619           Locked rotor torque [%]         330         250         265         280           Breakdown torque [%]         340         260         280         300           Service factor         1.15         1.00         1.00         1.00           Temperature rise         80 K         80 K         80 K         80 K         80 K           Locked rotor time         39s (cold) 22s (hot)	LRC [A]		5.4	4.6	4.6	4.6		
Slip [%]         6.94         10.00         9.00         8.00           Rated torque [ft.lb]         0.510         0.633         0.626         0.619           Locked rotor torque [%]         330         250         265         280           Breakdown torque [%]         340         260         280         300           Service factor         1.15         1.00         1.00         1.00           Temperature rise         80 K         80 K </td <td colspan="2">No load current [A]</td> <td>0.900/0.450</td> <td>0.450</td> <td>0.500</td> <td>0.550</td>	No load current [A]		0.900/0.450	0.450	0.500	0.550		
Rated torque [ft.lb]         0.510         0.633         0.626         0.619           Locked rotor torque [%]         330         250         265         280           Breakdown torque [%]         340         260         280         300           Service factor         1.15         1.00         1.00         1.00           Temperature rise         80 K         80 G         80 G         80 G <td colspan="2">Rated speed [RPM]</td> <td>3350</td> <td>2700</td> <td>2730</td> <td>2760</td>	Rated speed [RPM]		3350	2700	2730	2760		
Locked rotor torque [%]         330         250         265         280           Breakdown torque [%]         340         260         280         300           Service factor         1.15         1.00         1.00         1.00           Temperature rise         80 K         80 6         80 6         80	Slip [%]		6.94	10.00	9.00	8.00		
Breakdown torque [%]         340         260         280         300           Service factor         1.15         1.00         1.00         1.00           Temperature rise         80 K         80 K         80 K         80 K         80 K           Locked rotor time         39s (cold) 22s (hot)	Rated torque [ft.lb]		0.510	0.633	0.626	0.619		
Service factor         1.15         1.00         1.00         1.00           Temperature rise         80 K         39s (cold) 22s (hot)         39s (cold) 22s (hot) <td colspan="2">Locked rotor torque [%]</td> <td>330</td> <td>250</td> <td>265</td> <td>280</td>	Locked rotor torque [%]		330	250	265	280		
Temperature rise         80 K         39s (cold) 22s (hot)         40s (data)         40s (data) <th< td=""><td colspan="2">Breakdown torque [%]</td><td>340</td><td>260</td><td>280</td><td>300</td></th<>	Breakdown torque [%]		340	260	280	300		
Locked rotor time         39s (cold) 22s (hot)         52.0 dB(A)         60.6         63.0         63.0         61.9         60.6         63.0         67.5         67.0         67.0         67.0         67.0         67.0	Service factor				1.00			
Noise level²         56.0 dB(A)         52.0 dB(A)         52.0 dB(A)         52.0 dB(A)           Efficiency (%)         25%         59.7         63.2         61.9         60.6           50%         62.0         65.0         64.0         63.0           75%         67.0         68.0         67.5         67.0           100%         69.4         69.6         69.6         69.6           25%         0.28         0.32         0.29         0.26           50%         0.50         0.56         0.52         0.47           75%         0.62         0.70         0.66         0.61	Temperature rise			80 K	80 K	80 K		
Efficiency (%)  25% 59.7 63.2 61.9 60.6 50% 62.0 65.0 64.0 63.0 75% 67.0 68.0 67.5 67.0 100% 69.4 69.6 69.6 69.6 25% 0.28 0.32 0.29 0.26 50% 75% 0.62 0.50 0.56 0.52 0.47 75% 0.62	Locked rotor time		39s (cold) 22s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)		
Efficiency (%)     50%     62.0     65.0     64.0     63.0       75%     67.0     68.0     67.5     67.0       100%     69.4     69.6     69.6     69.6       25%     0.28     0.32     0.29     0.26       50%     0.50     0.56     0.52     0.47       75%     0.62     0.70     0.66     0.61	Noise level <sup>2</sup>				. ,	. ,		
Power Factor (%) 75% 67.0 68.0 67.5 67.0 69.6 69.6 69.6 69.6 69.6 69.6 69.6 69	Efficiency (%)	25%	59.7	63.2	61.9	60.6		
Power Factor   75%   67.0   68.0   67.5   67.0   67			62.0	65.0	64.0	63.0		
Power Factor         25%         0.28         0.32         0.29         0.26           50%         0.50         0.56         0.52         0.47           75%         0.62         0.70         0.66         0.61		75%	67.0	68.0	67.5	67.0		
Power Factor 50% 0.50 0.56 0.52 0.47 75% 0.62 0.70 0.66 0.61		100%	69.4	69.6	69.6	69.6		
Power Factor 75% 0.62 0.70 0.66 0.61			0.28	0.32	0.32 0.29			
75% 0.62 0.70 0.66 0.61	Power Factor		0.50	0.56	0.52 0.47			
100% 0.72 0.80 0.76 0.72						0.61		
		100%	0.72	0.80	0.76	0.72		

Non drive end Drive end Foundation loads

Bearing type 6201 ZZ 6201 ZZ Max. traction : 22 lb : 22 lb Sealing Oil Seal Oil Seal Max. compression

Lubrication interval Lubricant amount Mobil Polyrex EM

Lubricant type

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.

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Rev.	Changes Summary		Performed		Checked	Date
Performed by						
Checked by					Page	Revision
Date	22/01/2018	1			1/1	