## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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## Customer

Catalog #:         00712073E284TC-S           Frame         ::001-ODP           Insulation class         ::001 - ODP           Duty cycle         ::001 - ODP           Ambient emparature         ::001 - COP           Attitude         ::000 m.a.s.l.           Ambient emparature         ::000 m.a.s.l.           Duty cycle         ::000 m.a.s.l.           Duty cycle         ::000 m.a.s.l.           Moment of ineria (J)         ::000 sq.ttl.b           Outgut [HP]         7.5         7.5           Frequency [H2]         :00         :00           Ref outgate [M]         :0050         :00           Ref outgate [M]         :0510(Code F)         :000(Code F)           No load current [A]         :0262-017:5:37         :10.053.0         :11:5:6:1:1           Ref outgate [RM]         :1175         :975         :00           No load current [A]         :2269         :80         :200           Stated soped [RPM]         :33:1         :40.1         :39:9           Locked forto irongue [%]         :200         :40         :80           Service factor         :15:5         :11:5         :11:5           Timperature iste totavicroue [%]         :200         :	Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12727235		
Insulation class         : F         Mounting         ::F-1           Duty cycle         : Cont.(S1)         Rotation         ::Both (CW and CCW)           Ambient temperature         ::20°C to +40°C         Starting method         :Direct On Line           Attitude         ::20°C to +40°C         Approx.weight <sup>10</sup> :201 lb           Datput [HP]         7.5         7.5         7.5           Ordes         6         6         6         6           Frequency [Hz]         60         50         50         50           Starting reprint [A]         226-220/460         190/380         220/415         146           Atted vortage [M]         104/52.0         97.6(48.8         104/65.2         17/11.5           R. Amperes [A]         1151/04/52.0         97.6(48.8         104/65.2         150           Re (A)         9.26-10/75.37         10.067.30         115/6.1         151           Strating specific [RM]         1175         970         975         318           Strating specific [RM]         115         1.15         1.15         1.15           Strating specific [RM]         208         3.00         2.20         20           Strack charue [RM]         208 <td< th=""><th></th><th></th><th></th><th>Catalog # :</th><th>00712OT3E</th><th>254TC-S</th></td<>				Catalog # :	00712OT3E	254TC-S	
Insulation class         : F         Mounting         ::F-1         Mounting         ::F-1           Duby cycle         ::Cont.(S1)         Rotation1         ::Both (CW and CCW)         Starting method         :Direct OL Ine         Direct OL Ine           Attitude         ::20°C to +40°C         Starting method         :Direct OL Ine         Direct OL Ine         Dir	Frame		: 254/6TC	Cooling method	: IC01 - OD	C	
Ambient temperature         ::-20°C to +40°C         Starting method         : Direct On Line           Design         :: 8         Moment of inertia (J)         : 201 b           Dutput [HP]         7.5         7.5         7.5           Poles         6         6         6           Starting method         : 201 b         Moment of inertia (J)         : 201 b           And poly in the method in the start outge [V]         : 206 a         6         6           Starting users         : 101 0 0 0 0         : 200 sq.ft.lb         : 201 b           Starting users         : 101 0 0 0         : 200 sq.ft.lb         : 201 b           Starting users         : 101 0 0 0         : 200 sq.ft.lb         : 201 b           Starting users         : 101 0 0 0         : 200 sq.ft.lb         : 201 b           No load current [A]         : 226 - 20 4/10 2         : 24 4/12 2         : 21 7/11 : 5           RC [A]         : 51 xi(Code F)         : 4 0xi(Code D)         : 4 8xi(Code F)           No load current [A]         : 92.6 17/6 37         10 6/6 30         : 15 5           Starting users (RL [L])         : 33 1         : 40.1         : 39 3           Starting users (RL [L])         : 33 1 <td: 40.1<="" td="">         : 15 5</td:>	Insulation class		:F				
Altitude         : 1000 m.a.s.i.         Approx.weight <sup>b</sup> : 201 b           Design         : B         Moment of inertic (J)         : 2.00 sq.ft.lb           Dutput [HP]         7.5         7.5         7.5           Teguency [Hz]         60         50         200           Stated current [A]         226-230/460         190/380         2220/415           Taked current [A]         226-20/410.2         24/412.2         217/111.5           .R. Amperes [A]         115-104/52.0         976/44.8         101/452.2           RC [A]         5.1x(Code F)         4.0x(Code D)         4.8x(Code F)           Via load current [A]         92.6-10.7/6.37         10.6/6.30         11.5/6.11           Taked speed [RPM]         1175         970         975           Taked foruge [t,lb]         33.1         40.1         39.9           Cocked rotor turge [%]         2200         140         180           Service factor         1.15         1.15         1.15           Emperature rise         80 K         80 K         80 K           cocked rotor turge [%]         20%         89.1         89.3         88.6           Frightency (%)         75%         0.56         0.63         0.5							
Design         : B         Moment of inertia (.J)         : 2.00 sq.ft.lb           Output [HP]         7.5         7.5         7.5           Ordes         6         6         6           Frequency [Hz]         60         50         50           Stated voltage [V]         208-30/460         190/380         220/415           Ret output [A]         22.6-20.4/10.2         24.4/12.2         21.7/11.5           .R. Amperse [A]         1161-014/52.0         97.6/48.8         104/52.2           .R. Amperse [A]         5.1x(Code F)         4.0x(Code D)         4.8x(Code F)           volad current [A]         9.26-10.7/5.37         10.6/5.30         11.5/6.11           Stated toruge [ft.lb]         33.1         40.1         39.9           ocked notor toruge [%]         2.00         14.40         180           State toruge [ft.lb]         33.1         40.1         39.9           ocked notor toruge [%]         2.29         180         220           Service factor         1.15         1.15         1.15           Efficiency (%)         750         0.80 K         80 K         80 K           Oxise tevel*         50%         0.56         0.63         0.56	Ambient temperature		: -20°C to +40°C		: Direct On Line		
Dutput [HP]         7.5         7.5         7.5           Poles         6         6         6         6           Fequency [Hz]         60         50         50           Stated vorting [A]         226/20410         220/415         33           Stated vorting [A]         115-104/52.0         97.6/48.8         104/65.2           L.R. Amperes [A]         115-104/52.0         97.6/48.8         104/65.2           R.G [A]         9.16/04/5.0         97.6/48.8         104/65.2           Stated current [A]         9.26-10.7/5.37         10.6/5.30         11.5/6.11           Stated current [A]         2.208         3.00         2.50           Stated current [A]         2.29         180         2.20           Service factor         1.15         1.15         1.15           Service factor         1.15         1.15         1.15           Fefficiency (%)         25%         88.5         89.3         88.6	Altitude				: 201 lb		
Topies         6         6         6         6         6           Tequency [Hz]         60         50         50           Rated voltage [V]         208-230/460         190/380         220/415           Tated current [A]         22.6-20.4/10.2         24.4/12.2         21.7/11.5           R. Amperes [A]         116-104/52.0         97.6/48.8         104/452.           R.C [A]         5.1x(Code F)         4.0x(Code D)         4.8x(Code F)           Volad current [A]         9.2c-107/5.37         10.6/5.30         11.5/5.11           Tated speed [RPM]         1175         970         975           916 [%]         2.08         3.00         2.50           Rated torque [%]         200         140         180           cocked rotor torque [%]         229         180         220           Service factor         1.15         1.15         1.15           Efficiency (%)         50% 88.5         80.3         88.6           Efficiency (%)         50%         0.56         0.63         0.56           Y5%         0.68         0.74         0.69         0.75           Power Factor         75%         0.68         0.74         0.69	Design		: B	Moment of inertia (J)	: 2.00 sq.ft.l	b	
Frequency [Hz]         60         50         50           Rated voltage [V]         208-230/460         190/380         220/415           Rated current [A]         22.6-20.4/10.2         24.4/12.2         21.7/11.5           R. Amperes [A]         115-104/52.0         97.6/48.8         104/55.2           R.C [A]         5.1x(Code F)         4.0x(Code D)         4.8x(Code F)           No load current [A]         9.26-10.7/5.37         10.6/5.30         11.5/6.11           Stated speed [RPM]         1175         970         975           Sile [%]         2.08         3.00         2.50           Calced nor unrent [A]         2.01         1.40         180           Service factor         1.15         1.15         1.15           Service factor         1.15         1.15         1.15           Emperature rise         80 K         80 K         80 K         80 K           Socker forb trime         695 (cold) 376 (hot)         05 (cold) 06 (hot)         05 (cold) 06 (hot)           Visios level*         25%         9.3         88.6         80.4           Efficiency (%)         25%         9.0         88.0         88.5         9.3         88.5           Power Factor	Output [HP]						
Rated voltage [V]         208-230/460         190/380         220/415           Rated current [A]         226-20.410.2         24.412.2         21.71/11.5           .R. Amperes [A]         115-104/52.0         97.6/48.8         104/55.2           .R.C [A]         5.1x(Code F)         4.0x(Code D)         4.8x(Code F)           Volad current [A]         9.26-10.7/5.37         10.6/5.30         11.56.11           Rated speed [RPM]         1175         970         975           Silp [%]         2.06         3.00         2.2.50           Rated forque [K]         2.09         140         180           Stated forque [%]         2.00         140         180           Stated forque [%]         2.00         140         180           Stated forque [%]         2.29         180         2.20           Stated forque [%]         2.29         180         2.20           State forque [%]         2.29         180         2.20           State forque [%]         2.29         180         2.20           State forque [%]         2.29         180         2.0           State forque [%]         2.50         0.60(N         0.60(N)           State forcure rise         80 K <td colspan="2">Poles</td> <td>-</td> <td></td> <td colspan="2"></td>	Poles		-				
Rated ourrent [A]         22.6-20.4/10.2         24.4/12.2         21.7/11.5           L. R. Amperes [A]         115-104/52.0         97.6/48.8         104/55.2           RC [A]         5.1x(Code F)         4.0x(Code D)         4.8x(Code F)           No load current [A]         9.26-10.7/5.37         10.6/5.30         11.5/6.11           Rated speed [RPM]         1175         97.6         97.5           Sile [%]         2.08         3.00         2.50           Rated torque [ft.b]         33.1         40.1         39.9           Locked rotor torque [%]         220         140         180           Service factor         1.15         1.15         1.15           Service factor         1.15         0.100         0.00(0) 0 s (hot)           Noise level?         59.0 dB(A)         57.0 dB(A)         57.0 dB(A)           Service factor         75%         90.2         88.0         88.5           Power Factor         50%         0.68         0.74         0.69           100%         0.75         0.78         0.75         0.75           Notes         100%         0.75         0.78         0.75							
R. Amperes [Å]         115-104/52.0         97.6/48.8         104/55.2          RC [Å]         5.1x(Code F)         4.0x(Code D)         4.8x(Code F)           No load current [Å]         9.26-10.7/5.37         10.6/5.30         11.5/6.11           Tated speed [RPM]         1175         970         975           Silp [%]         2.08         3.00         2.5.0           Stated forque [%]         2.09         140         180           Stated forque [%]         2.00         1440         180           Stated forque [%]         2.00         140         180           Stated forque [%]         2.00         140         180           Stated forque [%]         2.29         180         2.20           State forque [%]         2.29         180         2.60           State forque [%]         2.29         180         2.60           State forque [%]         2.29         180         2.60           State forque [%]         2.29         180         80.K         80.K           Solve forlor time is a fact origin for forgue forgue for forgue for forgue for forgue forgue for forgue							
RC [A]         5.1x(Code F)         4.0x(Code D)         4.8x(Code F)           Vs load current [A]         9.26-10.7/6.37         10.6/6.30         11.5/6.11           ated speed [RPM]         1175         970         975           Silp [%]         2.08         3.00         2.50           ated torque [%]         2.08         3.00         2.50           ated torque [%]         2.02         140         180           acked notor torque [%]         2.29         180         2.20           Service factor         1.15         1.15         1.15           This revision replaces and cancel the previous one, which must be eliminated.         88.6         0.73         0.68         0.74         0.69           This revision replaces and cancel the previous one, which must be eliminated.         0.75         0.78         0.75         0.78         0.75           Notes         X         X         X         X         X         X         X           Power Factor         100%         0.75         0.78         0.75         0.76         0.75           Notes         X         X         X         X         X         X         X           Power Factor         100%         0.75							
No load current [A]         9.26-10.7/5.37         10.6/5.30         11.5/6.11           Rated speed [RPM]         1175         970         975           Sip [%]         2.08         3.00         2.50           Rated torque [f.lb]         33.1         40.1         39.9           cocked root rorque [%]         220         140         180           Service factor         1.1.5         1.1.15         1.1.5           Emperature rise         6.80 K         80 K         80 K           Sock droot rortime         668 (cold) 3's (hot)         0's (cold) 0's (hot)         0's (cold) 0's (hot)           Noise level?         59.0 dB(A)         57.0 dB(A)         57.0 dB(A)         57.0 dB(A)           Sock droot rome         50%         88.5         89.3         88.6           Tobise level?         50%         0.66         0.63         0.56           Power Factor         50%         0.56         0.63         0.75           Tobis         0.75         0.78         0.75         0.75           Notes         75%         0.68         0.74         0.69           100%         0.75         0.78         0.75         0.75           Notes         100%							
Sated speed [RPM]         1175         970         975           Slip [%]         2.08         3.00         2.50           Sated torque [ft.lb]         33.1         40.1         38.9           .ccked rotor torque [%]         229         180         220           Service factor         1.15         1.15         1.15           Terakdown torque [%]         229         180         220           Service factor         66 s(cold) 37 s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Os (cold 0's (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Cocked rotor time         66 s(cold) 37 s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level?         59.0 dB(A)         57.0 dB(A)         57.0 dB(A)         57.0 dB(A)           75%         90.2         89.1         89.3         88.6           75%         90.2         88.0         88.5         90.7           Power Factor         50%         0.56         0.63         0.56           75%         0.68         0.74         0.69         0.75           Notes         100%         0.75         0.78         0.75           Notes				· · · · · · · · · · · · · · · · · · ·			
Slip [%]         2.08         3.00         2.50           Rated torque [%]         33.1         40.1         39.9           cocked rotor torque [%]         220         180         220           Breakdown torque [%]         229         180         220           Service factor         1.15         1.15         1.15           Emperature rise         80 K         80 K         80 K         80 K           Locked rotor time         666 (cold) 37s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level*         25%							
Rated forque [ft,b]         33.1         40.1         39.9           cocked rotor torque [%]         200         140         180           cocked rotor torque [%]         229         180         220           Service factor         1.15         1.15         1.15         1.15           Emperature ive         668 (cold) 37s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level*         50.0 dB(A)         57.0 dB(A)         57.0 dB(A)         57.0 dB(A)         57.0 dB(A)           Efficiency (%)         25%                00%         88.5         89.3         88.6               25%		/I]					
Locked rotor torque [%]         200         140         180           Breakdown torque [%]         229         180         220           Breakdown torque [%]         229         180         220           Breakdown torque [%]         1.15         1.15         1.15         1.15           Femperature rise         80 K         80 R         10 0 K         90 R         25 %         0         88.5         9.3         88.6         0.74         0.69 R         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75 <td colspan="2">Slip [%]</td> <td></td> <td></td> <td></td> <td colspan="2"></td>	Slip [%]						
Locked rotor torque [%]         200         140         180           Breakdown torque [%]         229         180         220           Breakdown torque [%]         229         180         220           Breakdown torque [%]         1.15         1.15         1.15         1.15           Femperature rise         80 K         80 R         10 0 K         90 R         25 %         0         88.5         9.3         88.6         0.74         0.69 R         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75         0.75 <td>Rated torque [ft.lb</td> <td>]</td> <td>33.1</td> <td>40.1</td> <td></td> <td>39.9</td>	Rated torque [ft.lb	]	33.1	40.1		39.9	
Breakdown torque [%]         229         180         220           Service factor         1.15         1.15         1.15           Emperature rise         80 K         80 K         80 K         80 K         80 K           Locked rotor time         66s (cold) 37 s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level <sup>2</sup> 59.0 dB(A)         57.0 dB(A)         57.0 dB(A)         57.0 dB(A)           Efficiency (%)         25%         90.2         89.1         89.3         88.6           Tow         75%         90.2         89.1         89.3         88.6           76%         90.2         88.0         88.5         99.3         88.6           Power Factor         50%         0.56         0.63         0.56           75%         0.68         0.74         0.69         0.75           Notes         100%         0.75         0.78         0.75           Notes         Mcsaured at 1m and with tolerance of +3dB(A).         MC-1.         MC-1.           (1) Looking the motor from the shaft end.         (2) Measured at 1m and with tolerance of +3dB(A).         MC-1         Performed         Chacked         Date           Performed by <td colspan="2">Locked rotor torque [%]</td> <td>200</td> <td>140</td> <td></td> <td>180</td>	Locked rotor torque [%]		200	140		180	
Service factor         1.15         1.15         1.15         1.15           Temperature rise         80 K         80 K         80 K         80 K           Locked rotor time         65 (cold) 3's (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Locked rotor time         50%         88.5         89.3         88.6           Fficiency (%)         75%         90.2         88.0         88.5           100%         90.2         88.0         88.5         25%           Power Factor         50%         0.56         0.63         0.56           75%         0.68         0.74         0.69         0.75           100%         0.75         0.78         0.75           Notes         Notes         0.69         0.75         0.78	Breakdown torque [%]		229	180		220	
Temperature rise         80 K         80 K         80 K         80 K           Locked rotor time         666 (cold) 37s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level <sup>2</sup> 59.0 dB(A)         57.0 dB(A)         57.0 dB(A)         57.0 dB(A)           Efficiency (%)         75%         90.2         89.1         89.3           75%         90.2         89.1         89.3           100%         90.2         88.0         68.5           25%	Service factor						
Locked rotor time         66s (cold) 37s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level <sup>P</sup> 50.0 dB(A)         57.0 dB(A)         57.0 dB(A)           Efficiency (%)         50%         88.5         89.3         88.6           100%         90.2         89.1         89.3           100%         90.2         88.0         88.5           Power Factor         50%         0.56         0.63         0.56           75%         0.68         0.74         0.69         0.75           Notes         100%         0.75         0.78         0.75           Notes         0.75         0.78         0.75         0.75           Notes         0.64         0.75         0.76         0.75           Notes         0.75         0.78         0.75         0.75           Notes         0.75         0.78         0.75         0.75           Notes         0.64         0.75         0.76         0.75           10.00% of full load.         0.75         0.76         0.75         0.75           10.00% of full load.         0.75         0.78         0.75         0.75           0.100% of full load.	Temperature rise						
Noise level?         59.0 dB(A)         57.0 dB(A)         57.0 dB(A)           Efficiency (%)         25%         88.5         89.3         88.6           Power Factor         25%	Locked rotor time						
25%         30%         88.5         89.3         88.6           75%         90.2         89.1         89.3         100%         99.3           100%         90.2         88.0         88.5         99.3         100%         99.3         100%         99.2         89.1         89.3         100%         99.2         88.0         88.5         99.3         100%         90.2         88.0         88.5         99.3         100%         0.56         0.63         0.56         0.63         0.56         0.63         0.56         0.75 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Efficiency (%)         50%         88.5         89.3         88.6           75%         90.2         89.1         89.3           100%         90.2         88.0         88.5           Power Factor         50%         0.56         0.63         0.56           75%         0.68         0.74         0.69         0.75           Notes         100%         0.75         0.78         0.75		25%	. ,			. /	
Efficiency (%)         75%         90.2         89.1         89.3           100%         90.2         88.0         88.5           Power Factor         50%         0.56         0.63         0.56           75%         0.68         0.74         0.69           100%         0.75         0.78         0.75           Notes         0.75         0.78         0.75           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 NEM MG-1.           (2) Measured at 1m and with tolerance of +3dB(A).         (4) At 100% of full load.         Performed         Checked         Date           Performed by			88.5	89.3		88.6	
100%         90.2         88.0         88.5           Power Factor         25%	Efficiency (%)						
Power Factor       25%       0.56       0.63       0.56         75%       0.68       0.74       0.69         100%       0.75       0.78       0.75         Notes       Image: Control of the staft end.       0.75       0.78       0.75         Notes       Image: Control of the staft end.       0.75       0.78       0.75         Notes       Image: Control of the staft end.       0.75       0.78       0.75         MG-1.       Image: Control of the staft end.       0.75       0.76       0.75         Rev.       Changes Summary       Performed       Checked       Date         Performed by       Image: Control of the staft end.       Image: Control of the staft end.       Page       Revision							
Power Factor       50%       0.56       0.63       0.56         75%       0.68       0.74       0.69         100%       0.75       0.78       0.75         Notes       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 NEM (1) Looking the motor from the shaft end.       MG-1.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.       MG-1.         (4) At 100% of full load.       Changes Summary       Performed       Checked       Date         Performed by				*			
Power Factor       75%       0.68       0.74       0.69         100%       0.75       0.78       0.75         Notes       Image: constraint of the state of the previous one, which must be eliminated.       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEM MG-1.         (1) Looking the motor from the shaft end.       (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (4) At 100% of full load.       Performed       Checked       Date         Performed by       Page       Revision			0.56	0.63		0.56	
100%       0.75       0.78       0.75         Notes	Power Factor						
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 NEM MG-1.         (1) Looking the motor from the shaft end.       (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (4) At 100% of full load.       Performed       Checked       Date         Performed by       Page       Revision							
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must be eliminated.       power supply, subject to the tolerances stipulated in NEM         (1) Looking the motor from the shaft end.       MG-1.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (4) At 100% of full load.       Performed       Checked         Performed by       Page       Revision							
Performed by Checked by Page Revision	<ul> <li>must be eliminated.</li> <li>(1) Looking the motor from the shaft end.</li> <li>(2) Measured at 1m and with tolerance of +3dB(A).</li> <li>(4) At 100% of full load.</li> </ul>			power supply, subject to the tolerances stipulated in NEMA MG-1.			
Checked by Page Revision	Rev.		Changes Summary	Performed	Checked	Date	
	Performed by						
Date 22/01/2018 1 /	Checked by				Page	Revision	
	Date	22/01/2018			1/		

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