

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| Customer : | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------------------|--|---|------------|--|-----------|---------------|--------------|-----------|---------|---------|---------|-------|----------------------|-----------|---------|------------------|--------|------|----------------|------------------|--|--|
| Product line | : W22 High Efficiency Three-Phase | | Product code : | 12276612 | | | | | | | | | | | | | | | | | | | |
| Frame : 364/5TC Output : 75 HP (55 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 169/84.3 A L. R. Amperes : 1062/531 A LRC : 6.3x(Code G) No load current : 52.0/26.0 A Rated speed : 1770 rpm Slip : 1.67 % Rated torque : 223 ft.lb Locked rotor torque : 210 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 19.9 sq.ft.lb Design : B | | Locked rotor time : 18s (cold) 10s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 71.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 892 lb | | | | | | | | | | | | | | | | | | | | | |
| Output | 25% | 50% | 75% | 100% | | | | | | | | | | | | | | | | | | | |
| Efficiency (%) | 94.0 | 93.9 | 94.1 | 94.1 | | | | | | | | | | | | | | | | | | | |
| | 94.0 | 94.0 | 94.1 | 94.1 | | | | | | | | | | | | | | | | | | | |
| Power Factor | 0.54 | 0.54 | 0.79 | 0.80 | | | | | | | | | | | | | | | | | | | |
| | 0.49 | 0.47 | 0.76 | 0.74 | | | | | | | | | | | | | | | | | | | |
| | 0.83 | 0.83 | 0.82 | 0.87 | | | | | | | | | | | | | | | | | | | |
| | 0.86 | | | | | | | | | | | | | | | | | | | | | | |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | | | | | | | | | | | | | | | | | | | |
| Losses (%) | P1 (0,9;1,0) | 5.9 | 5.9 | 5.9 | | | | | | | | | | | | | | | | | | | |
| | P2 (0,5;1,0) | 4.8 | 4.8 | 4.8 | | | | | | | | | | | | | | | | | | | |
| | P3 (0,25;1,0) | 4.7 | 4.7 | 4.7 | | | | | | | | | | | | | | | | | | | |
| | P4 (0,9;0,5) | 2.8 | 2.8 | 2.8 | | | | | | | | | | | | | | | | | | | |
| | P5 (0,5;0,5) | 1.8 | 1.8 | 1.8 | | | | | | | | | | | | | | | | | | | |
| | P6 (0,5;0,25) | 1.1 | 1.1 | 1.1 | | | | | | | | | | | | | | | | | | | |
| | P7 (0,25;0,25) | 0.7 | 0.7 | 0.7 | | | | | | | | | | | | | | | | | | | |
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