



No.:

Date: 13-MAY-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W21 - Cast Iron Frame - Standard Efficiency - IE1

Catalog Number :

List Price : \$

Notes:

Performed by:

Checked:



No.:

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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : W21 - Cast Iron Frame - Standard Efficiency - IE1

Frame : 71
Output : 0.18 kW
Frequency : 50 Hz
Poles : 6
Full load speed : 905
Slip : 9.50 %
Voltage : 230/400 V
Rated current : 1.28/0.735 A
Locked rotor current : 4.22/2.43 A
Locked rotor current (I_l/I_n) : 3.3
No-load current : 1.20/0.690 A
Full load torque : 1.90 Nm
Locked rotor torque : 200 %
Breakdown torque : 220 %
Design : ---
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 50 s (hot)
Service factor : 1.00
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 11 kg
Moment of inertia : 0.00077 kgm²
Noise level : 43 dB(A)



| | D.E. | N.D.E. |
|---------------------|---------|---------|
| Bearings | 6203 ZZ | 6202 ZZ |
| Regreasing interval | --- | --- |
| Grease amount | --- | --- |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.62 | 57.0 |
| 75% | 0.55 | 54.0 |
| 50% | 0.46 | 46.0 |

Notes:

Efficiencies according to the indirect method of IEC 60034-2-1:2007 with stray load losses determined from measurement.

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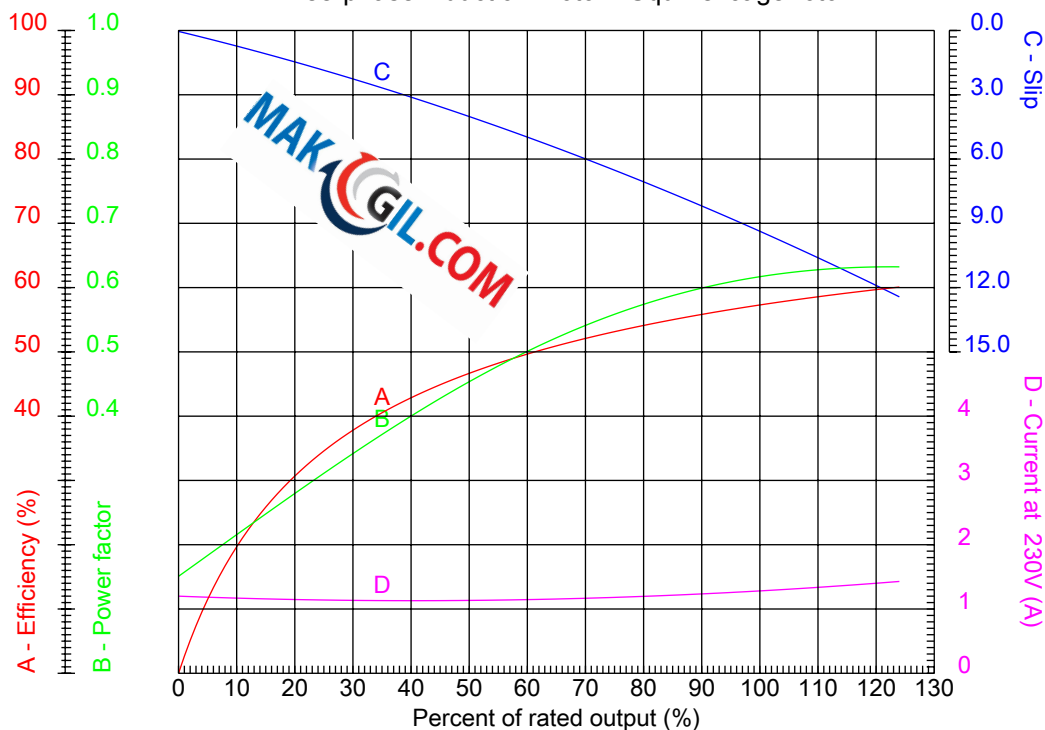
Checked



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PERFORMANCE CURVES RELATED TO RATED OUTPUT
Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W21 - Cast Iron Frame - Standard Efficiency - IE1

| | |
|------------------------------|--|
| Frame : 71 | Locked rotor current (I _l /I _n) : 3.3 |
| Output : 0.18 kW | Duty cycle : S1 |
| Frequency : 50 Hz | Service factor : 1.00 |
| Full load speed : 905 | Design : --- |
| Voltage : 230/400 V | Locked rotor torque : 200 % |
| Rated current : 1.28/0.735 A | Breakdown torque : 220 % |
| Insulation class : F | |

Notes:

Performed by

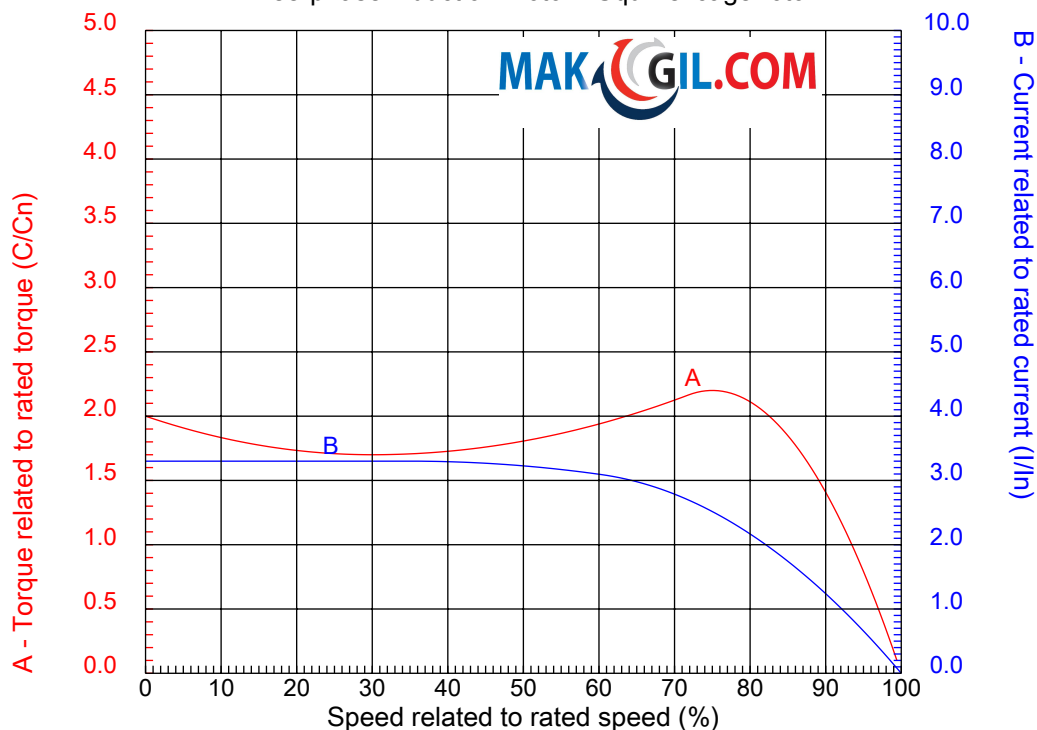
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CHARACTERISTIC CURVES RELATED TO SPEED
Three-phase induction motor - Squirrel cage rotor



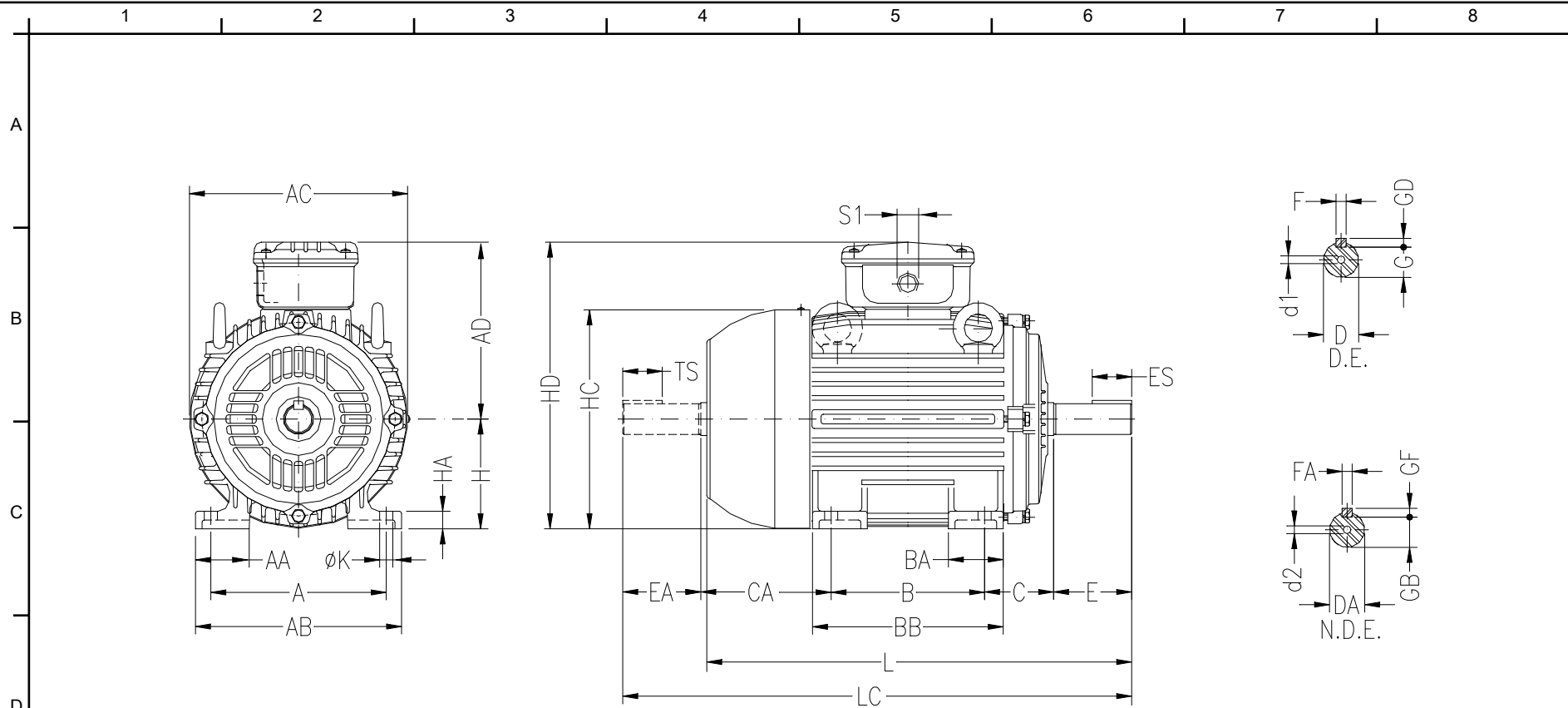
Customer :
Product line : W21 - Cast Iron Frame - Standard Efficiency - IE1

| | | | |
|------------------|----------------|---|---------|
| Frame | : 71 | Locked rotor current (I _l /I _{ln}) | : 3.3 |
| Output | : 0.18 kW | Duty cycle | : S1 |
| Frequency | : 50 Hz | Service factor | : 1.00 |
| Full load speed | : 905 | Design | : --- |
| Voltage | : 230/400 V | Locked rotor torque | : 200 % |
| Rated current | : 1.28/0.735 A | Breakdown torque | : 220 % |
| Insulation class | : F | | |

Notes:

Performed by

Checked



Notes:

| | | | | |
|------|------|-------|-----------|-----|
| A | AA | AB | AC | AD |
| 112 | 30 | 132 | 141 | 127 |
| B | BA | BB | C | CA |
| 90 | 38 | 113.5 | 45 | 88 |
| D | E | ES | F | G |
| 14j6 | 30 | 18 | 5 | 11 |
| GD | DA | EA | TS | FA |
| 5 | 11j6 | 23 | 14 | 4 |
| GB | GF | H | HA | HC |
| 8.5 | 4 | 71 | 12 | 139 |
| K | L | LC | S1 | d1 |
| 7 | 248 | 276 | 2xM20x1.5 | DM5 |
| d2 | | | | |
| EM4 | | | | |

Performed by:

Checked:

Customer:

W21 - Cast Iron Frame - Standard Efficiency - IE1

Three-phase induction motor
Frame 71 - IP55

13-MAY-2016

