



Manufacturer

Customer

VEM motors Thurm GmbH
Äußere Dresdener Str. 35

08066 ZWICKAU
Deutschland

Three-phase motor with squirrel cage rotor, brake motors
 brake type BFK 457

| | | | |
|------------------------------------|----------------------|--|--------------------|
| Type | B21R 80 K4 BLEN | | |
| Design output | (kW) | 0,55 | |
| Design torque | (Nm) | | |
| Duty type | | S1 | |
| Class IE | (-) | -71,9% | |
| Efficiency determination | (-) | EN 60034-2-1 | |
| Design frequency | (Hz) | 50 | |
| Design speed | [rpm] | 1400 | |
| Direction of rotation | | bidirectional | |
| Voltage | (V) | 230/400 | |
| Connection | (-) | D | Y |
| Current | (A) | 2.8 | 1.6 |
| Relative pull-in current | (-) | 4,1 | |
| Relative starting torque | (-) | 2,1 | |
| Relative pull-out torque | (-) | 2,3 | |
| Power factor | (-) | 0,69 | |
| Efficiency100/75/50 % | (%) | | 71,9 / 70,7 / 64,1 |
| Th. cl. | | 155(F) | |
| Coolant temperature | (°C) | 40°C | |
| Altitude above sea level | (m) | 1000m | |
| Degree of protection IP | | IP54 | |
| Moment of inertia | (kgm ²) | 0,000883 | |
| Motor weight | (kg) | 11,7 | |
| Bearing, D-side | | 6204 2Z C3 | |
| Bearing, N-side | | 6204 2Z C3 | |
| Relubrication interval | (h) | | |
| Grease type | | Asonic GLY 32 | |
| Grease amount | (g) | | |
| Brake type | | BFK457-06 | |
| Brake torque | (Nm) | 4 | |
| Relative brake torque | (-) | 1,1 | |
| Fixed bearing | | none | |
| Bearing monitoring | | none | |
| Winding protection | | | |
| Anti-condensation heating | | none | |
| Limit values to vibration velocity | | Class A | |
| | | Balancing with half key | |
| Colour system | | 01 Moderate (KK C2),RAL 7031 blue-grey,60 µm | |

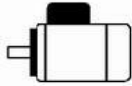
Delivery conditions and/or official regulations: IEC / EN 60034-1

This document was produced electronically, all specifications are valid only after confirmation of the manufacturer

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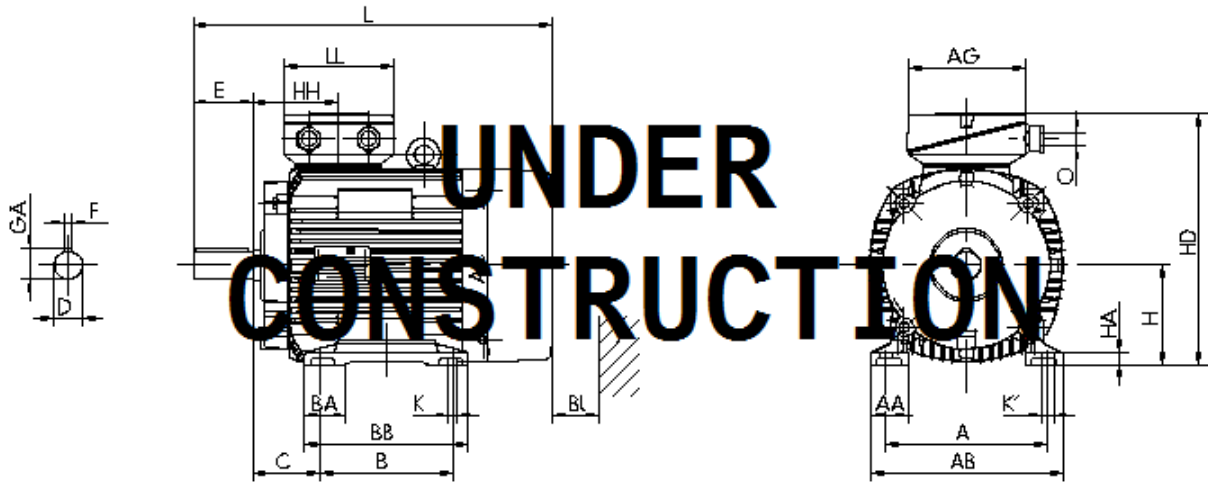
B21R 80 K4 BLEN

Mounting position



Type of mounting: IM B14G
Flange: FT 130[C 160]
Position of terminal box: on the top
Brake type:
Forced-ventilation:

Terminal box: KA 05
Cable gland O: 1 xSealing plug



| | | | | | | | | | | | | | |
|-----------------|-----|------|-----|---------------|----|-----------------|----|-----|----|---------------------|----|----|----|
| Motor | | | | | | | | | | | | | |
| A | AA | AB | AC | AD | B | B' | BA | BA' | BB | C | CA | K | K' |
| - | - | - | 139 | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | Terminal box | | | |
| L | LC | H | HA | HD | HH | BI | | | | AG | LL | BE | AH |
| 305 | - | 80 | - | - | 67 | 16 | | | | 92 | 92 | - | - |
| Flange | | | | | | | | | | Tolerances | | | |
| P | N | LA | M | T | S | | | | | H | N | D | DA |
| 160 | 110 | 10 | 130 | 3,5 | M8 | | | | | -0,5 | j6 | k6 | k6 |
| Shaft-DS | | | | | | Shaft-NS | | | | | | | |
| D | E | GA | F | DB | | DA | EA | GC | FA | | | | |
| 19 | 40 | 21,5 | 6 | DIN 332-DS M6 | - | - | - | - | - | | | | |

DB...Centre hole

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